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Prospective Study

Reverse-total shoulder arthroplasty cost-effectiveness: A quality-adjusted life years comparison with total hip arthroplasty

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Abstract

AIM: This study compared reverse-total shoulder **arthroplasty cost-effectiveness** with **total hip arthroplasty cost-effectiveness**.

METHODS: This study used a stochastic model and decision-making algorithm to compare the cost-effectiveness of reverse-total shoulder arthroplasty and total hip arthroplasty. Fifteen patients underwent pre-operative, and 3-month, 6-month, and 12-month post-operative clinical examinations and Short Form-36 Health Survey completion. Short Form-36 Health Survey subscale scores were converted to EuroQual Group Five Dimension Health Outcome scores and compared with historical data from age-matched patients who had undergone total hip arthroplasty. Quality-adjusted life year (QALY) improvements based on life expectancies were calculated.

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