

Two-Year Outcomes of Total Hip Replacement Surgery



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INTRODUCTION

Total hip replacement (THR) serves to restore function and relieve pain in the hip, thus improving mobility. To date, there has been no report on outcomes of THR surgeries performed locally.

OBJECTIVE

•To investigate the two-year outcomes of THR surgeries in a local public hospital.

METHODOLOGY

•A total of 330 THR surgeries were performed between 2003 and 2005.

•Patients completed the Short-Form 36 (SF-36), WOMAC and Oxford Hip questionnaire at pre-operation, 6-months and 2-years post-surgery.

Oxford Hip Questionnaire: self-reported objective assessment comprising 12 questions on pain and function. Best possible score is 12 and the worst possible score is 60.

WOMAC: The Western Ontario and McMaster Universities (WOMAC) Osteoarthritis is a disease-specific, self-administered, health status measure. It probes clinically-important symptoms in areas of pain, stiffness and physical function in patients with osteoarthritis of the hip. Best possible score is 100 and worst possible score is 0.

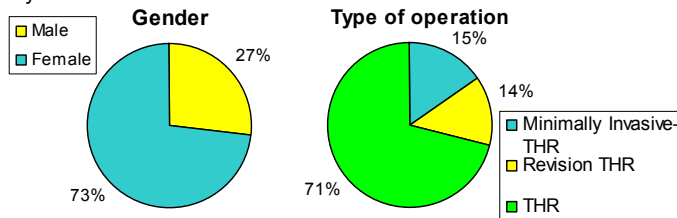
SF-36: self-reported generic, quality-of-life scoring system developed by RAND (USA) comprising 36 questions. Best possible score is 100 and worst possible score is 0.

RESULTS AND DISCUSSION

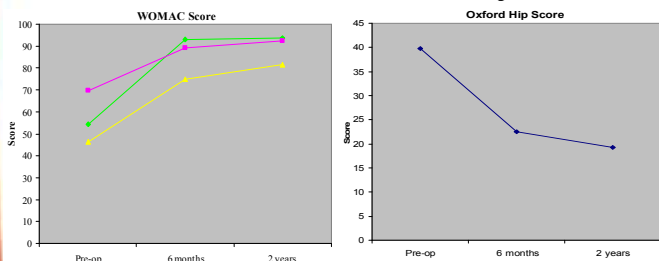
Demographics

•Mean age of patients was 61 years and follow-up rate was 58.5%.

•Most patients are unwilling to come back for assessment as they feel they have recovered.



Patients' scores for SF-36, WOMAC and Oxford Hip Questionnaire

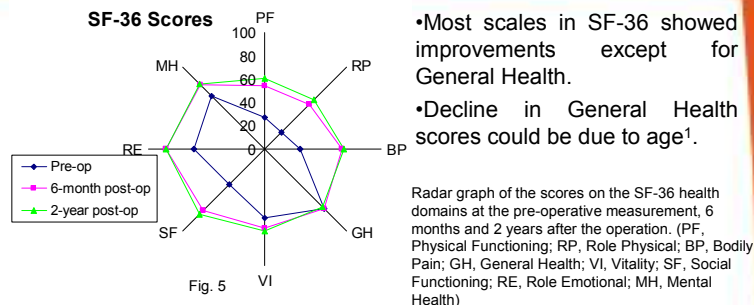


•There was improvement in the Oxford Hip and WOMAC score.

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2. J.G. Andrew, J. Palan, H. V. Kurup. *Obesity in Total Hip Replacement.* J Bone Joint Surg (Br) 2008;90-B:424-9
3. A-K Nilsson, I F Petersson, E M Roos. *Predictors of patient relevant outcome after total hip replacement for osteoarthritis: a prospective study.* An Rheum Dis 2003; 62: 923-930

SF-36 Scores

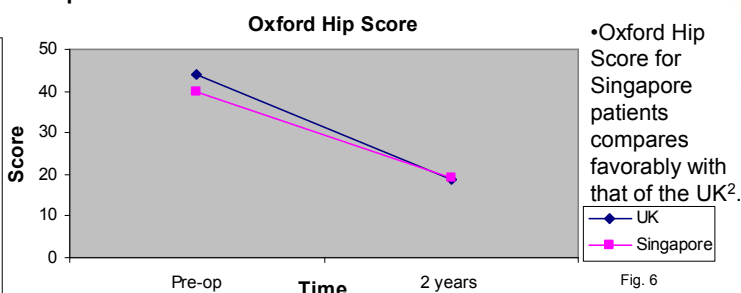


•Most scales in SF-36 showed improvements except for General Health.

•Decline in General Health scores could be due to age¹.

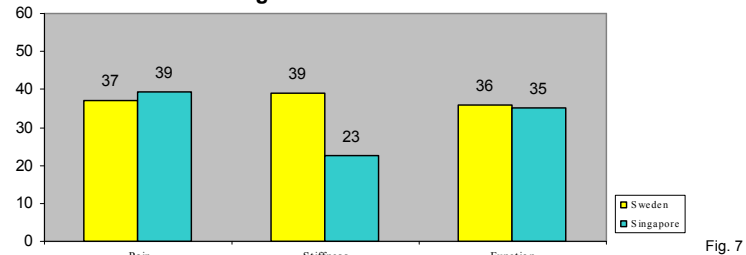
Radar graph of the scores on the SF-36 health domains at the pre-operative measurement, 6 months and 2 years after the operation. (PF, Physical Functioning; RP, Role Physical; BP, Bodily Pain; GH, General Health; VI, Vitality; SF, Social Functioning; RE, Role Emotional; MH, Mental Health)

Comparison with international data



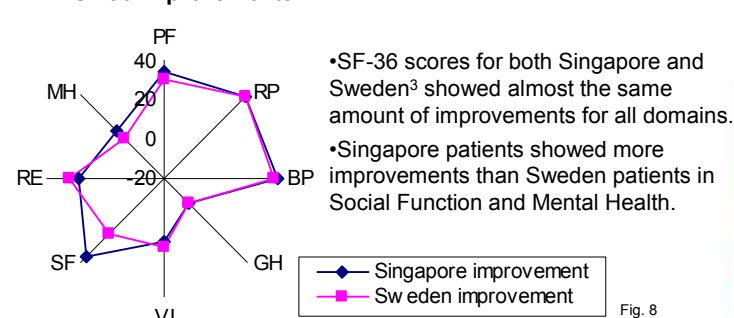
•Oxford Hip Score for Singapore patients compares favorably with that of the UK².

Change in WOMAC Score



Singapore has comparable change in score as Sweden³ in Pain and Function but much less improvement for Stiffness.

SF-36 Improvements



•SF-36 scores for both Singapore and Sweden³ showed almost the same amount of improvements for all domains.

•Singapore patients showed more improvements than Sweden patients in Social Function and Mental Health.

CONCLUSION

THR surgery at the Singapore General Hospital has resulted in reduction in hip pain and stiffness, and improvements in function and quality of life, comparable to outcomes previously reported in other international centers.