COST EFFECTIVENESS ANALYSIS OF THE TOTAL HIP REPLACEMENT THERAPY FOR HIP OSTEOARTHRITIS: A SYSTEMATIC REVIEW

Nining Tri Maryani¹⁾, Mardiyati Nadjib²⁾, Pamudji Utomo³⁾

Faculty of Public Health, Universitas Indonesia

ABSTRACT

Background: Hip osteoarthritis is inflammation of the joint caused by deterioration of the articular cartilage that protects the end of the joint. Total hip replacement (THR) surgery has been considered as the most effective treatment for osteoarthritis. However, studies into the cost effectiveness of THR are lacking. This study aimed to systematically review the cost effectiveness analysis of the total hip replacement therapy for hip osteoarthritis.

Subjects and Method: A systematic review was conducted through PubMed database. The inclusion criteria were articles published in English-language and around last 5 years. The keywords were "cost effectiveness analysis", "total hip replacement", "hip osteoarthritis", and "treatment". The articles selection were using filtering. The qualitative thematic analysis was used for synthesis.

Results: Nine of 518 articles were identified for final review. THR surgery was more cost-effective for osteoarthritis than without surgery. This cost-effectiveness was influenced by age, Body Mass Index (BMI), THR procedure, duration of rehabilitation, type and brand of THR implant.

Conclusion: THR surgery is more cost-effective than without THR surgery for hip osteoarthritis.

Keywords: hip osteoarthritis, total hip replacement, cost effectiveness analysis.

Correspondence:

Nining Tri Maryani. Faculty of Public Health, Universitas Indonesia, Depok, West Java, Indonesia. Email: ni2ngtm@gmail.com. Mobile: 082138233382.