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Evaluation of results in comminuted extracapsular fractures of hip treated with cemented bipolar arthroplasty and dynamic hip screw techniques

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Aim: The aim of this study is to evaluate results of cemented bipolar hemiarthroplasty and dynamic hip screw fixation for comminuted intertrochanteric fractures in elderly and its efficacy in meeting the activities of daily routine.

Study: Total 16 cases in which there was comminuted intertrochanteric fracture was present were taken and classified according to boyd and griffin classification. Among them 8 were operated with hemiarthroplasty with cemented bipolar prosthesis and 8 were operated with dynamic hip screw fixation after pre anaesthetic check up.

Results: In cemented bipolar out of 8 cases 4 were excellent, 2 were good, 2 were fair. In dynamic hip screw out of 8 cases 2 were excellent, 3 were good 1 was fair and 2 poor. Complications noted in the study of cemented bipolar were 1 case of superficial wound infection, 2 cases of shortening and 4 cases of abductor weakness with Trendelenburg gait. Complications noted in study of dynamic hip screw were 3 cases of implant failure 2 cases of nonunion 1 case of knee stiffness 1 case of superficial infection and 2 cases of varus angulation and one case died due to medical reasons.

Conclusion: In conclusion primary cemented bipolar hemiarthroplasty in comminuted intertrochanteric fractures in elderly patients provides painless stable joint allowing the patients to ambulate early in the post-operative period minimizing the complications associated with prolonged recumbency. The results of dynamic hip screw were inferior when compared to cemented bipolar hemiarthroplasty for comminuted intertrochanteric fractures. As the study comprises only few patients there is need for randomized controlled trial with large numbers.

Biography

Y Raviteja has completed his MS (Orthopaedics) from NTR University of Health Sciences, Vijayawada, Andhra Pradesh, India. He is presently doing Fellowship in Arthroplasty at Srikanth Hospitals, Hyderabad.

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