



TITLE: Femoral Neck Fracture in Geriatric Population: Comparative Outcome of Hemiarthroplasty via Posterior vs Direct Lateral Approach

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ABSTRACT

Background: Femoral neck fractures in geriatric people are frequent and represent a great health care problem. Hemiarthroplasty (HA) is the most common treatment for displaced femoral neck fractures in such population. The best approach for hip joint arthroplasty, however, remains controversial. The purpose of this study is to compare the functional and radiological outcome of Bipolar Hemiarthroplasty procedure using posterior vs direct lateral approach in patients aged 60 years and older for such fractures.

Patients and methods: This prospective comparative study was conducted in the Dept. of Orthopaedics, R.I.M.S., Ranchi, Jharkhand, India, over a period of two years. A total 120 patients between 60-80 years with displaced femoral neck fracture were operated with hemiarthroplasty. Patients were divided in two groups i.e. group A and B operated with posterior and direct lateral approach respectively. Several variables including age, sex, mode of injury, operative time, postoperative complications and final outcome measures were noted and compared between two

groups. **Results:** There were 90 patients in posterior approach and 30 patients in direct lateral approach group. The mean age of patients was 68.41 years in group A and 66.92 years in group B with female to male ratio was 1.9:1 for group A and 2.33:1 for group B. Operating time for group A and group B was 47.54 and 52.13 minutes respectively. Posterior approach carries an increased risk of prosthetic dislocation and periprosthetic fracture while pain, abductor weakness and heterotrophic ossification was more with lateral approach. The average Harris Hip Score was 83.13 in group A and 81.02 in group B.

Conclusion: Patients treated with HA using either posterior or lateral approaches had comparable complications and functional outcome after 1 year. Their complications should be kept in mind while performing a bipolar hemiarthroplasty.

Keywords: Displaced femur neck fracture, Hemiarthroplasty, Posterior approach, Direct lateral approach, Harris Hip Score



BIOGRAPHY

Dr. Raj Kumar has completed his post graduation in the department of Orthopaedics from Ranchi university in 2018. Currently, he is pursuing Senior residency from R.I.M.S. Ranchi, Jharkhand, India which is a tertiary care centre of country. He has several publications in various national and international indexed journals.

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