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Midterm outcome of modular femoral cementless stem in complex primary & revision hip arthroplasty

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Object: The objective of this study was to assess the midterm clinical & radiological outcome of hip revision hip replacement & complex primary arthroplasty by using modular Cementless femoral stem in our local population

Method: This study was conducted in Liaquat National Hospital, Orthopedic department from June 2017 to Jan 2019. Patients with Primary & Revised hip arthroplasty were included in the study in which modular femoral stem with sleeve were used with a minimum 15 months of follow up. Patients were assessed clinically & radiological at 3 months, 6 months, 9 months, 12 months & 15 months. Antero posterior & lateral radiograph of replaced hip were taken in every follow up visit. Follow up x-rays were compared with immediate postoperative x-rays for pedestal formation, endosteal spot welds, stress shielding, migration & cortical hypertrophy.

Result: Total 32 patients underwent hip arthroplasty with modular femoral stem during the specified period. 29 patients met the criteria for inclusion in the study. Gait improved substantially after revision hip replacement by modular femoral stem femoral stem. Harris hip score was also improved substantially after hip replacement & value increased from 40.2 to 79.7. The Merle D Aubigne score indicated a mark reduction in pain. According to Engh et al osteointegration were present in 23(79.3%) stem.

Conclusion: Midterm clinical & radiological outcome of femoral modular stem in revision hip arthroplasty & primary hip replacement with anatomical difficulties is good with Papprosky type II & III A bone loss. Femoral modular stem is our implant of choice in hip arthroplasty surgeries with proximal femoral bone loss.



(pre-operative)



(post-operative)



(follow up)

Biography

Muhammad Bilal Shafiq is a dedicated professional, benefiting from experience working effectively as part of a multi-disciplinary team in the civil hospital karachi and within other systems and administrations, gaining a good understanding of cultural and social issues. Possessing a developed empathic, patient-centered philosophy of care with practical clinical skills.

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