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Functional and radiological outcomes following plating for displaced fractures of patella

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Introduction: Patellar fractures account for .5% to 1.5 % of all skeletal injuries. Operative treatment of displaced patellar fractures with TBW (Tension Band wiring) has been the standard treatment for a long time, but it is associated with high complication rates. The Patellar-plating construct is a newer operative-method for patellar fracture fixation which offers adequate stabilization of multi-fragmentary fractures.

Methods: We conducted a pilot-prospective study at an Apex-Trauma Centre.20 patients aged 18-65years with displaced patellar fracture AO type A2, A3, B2, B3, C1, C2, C3 less than 2-week-old were fixed with low-profile patellar plate. Follow-up was done by BKS (Bostman-Knee-Scale), X-rays and NCCT (Non-contrast Computed Tomography) scan of knee.

Result: Mean BKS score at 6weeks,3month and 6month was 26,28 and 29 respectively. Radiological union was observed in 90% patients at 3months. 2 patients had Surgical Site Infection (SSI) at 2weeks.Hardware impingement was found in 15%patients by 3months. None of the patients had failure of fixation at the end of the study.

Conclusion: Patients with plate-constructs have favorable clinical and radiological outcomes throughout the study with minimal complications.

Biography

Vijay Sharma MS (Ortho), MRCSEd (UK) is working as Professor, Orthopedics in J P N Apex Trauma Centre attached to All India Institute of Medical Sciences, New Delhi, India. He became consultant in 2005 and His main area of interest is pelvic acetabular trauma and complex periarticular fractures. He has over 78 publications in international and national journals. He has taken over 100 lectures in various national and international conferences and courses. He is Faculty for AO and Zimmer for its various courses. He is Faculty for ACS for its ATLS course. He has organized various conferences and courses on complex orthopedic trauma. He is interested in cadaveric training and he has organized 7 cadaveric courses on pelvic acetabulum surgery as organizing secretary and course director. He has fellowship under his guidance for one year on pelvic acetabulum. He has been actively involved in research and he has been principle investigator for 3 funded projects and 8 candidates have done theses under his guidance MS (Orthopedics).

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