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Outcomes of fracture shaft femur in pediatric population managed at emergency

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Fracture shaft of femur is amongst one of the commonest major diaphyseal injuries in school going children presenting to us at emergency rooms of our hospitals. The presence of a growing proximal and distal physes imposes a real challenge in management of these fractures. The use of titanium elastic nails has gained wide acceptance for stabilizing these fractures.

Clinical practice:

A sample of 53 children of age group 6 to 12 years were included in the study according to the inclusion and exclusion criteria. The mean age of subjects was 8.87 ± 1.64 years of which 39 were males and 14 were females. The femoral shaft fractures were stabilized using titanium elastic nails and followed up for a mean duration of six months. The outcomes were evaluated based on Flynn's criteria.

Results:

We obtained excellent outcome in 75.5% of our cases, satisfactory

outcome in 17% and poor outcome in 7.5% of cases. We found no statistically significant difference in outcome in patients of age 9 years or less compared to 10 years or older.

Conclusion:

Patient selection is important to obtain good results using titanium elastic nails. Mid diaphyseal femoral shaft fractures with minimal comminution are ideal fractures for treatment using titanium elastic nails.

Biography

Vineet Kumar is faculty in Orthopedic Surgery at Dr. RML Institute of Medical Sciences, Lucknow, India. He has an MS in Orthopedic Surgery from [King Georges Medical University](#). He is a member of National Academy of Medical Sciences, AO Trauma and AO Spine society. He has special interest in spine and trauma and has been a part of organization in young surgeon's forum of Asia Pacific Orthopedic Association-India Chapter.

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