A comparative study of functional outcome of distal tibia extra articular fractures managed with intramedullary nailing and plating

Neetin Prahlad Mahajan, Tushar Patil, Jayesh Anant Mhatre*, Mayur Kamble, Pravin Sarkunde and Kevin Jain

Abstract

Introduction: The mechanism of injury and the prognosis of dis-placed, extra-articular fractures of the distal tibia is diferent to that for Pilon fractures, though ideal form of fxation for displaced, extra-articular fractures of the distal tibia tibia remains controversial. In the many tertiary care centres, open reduction and internal fxation with locking-plates and intramedullary nailing are the two most common forms of treatment. Both of these techniques provide reliable fxation, but both are associate b cgand initially toe touch weight bearing was started on visibility of radiological callus and then later provide the two mosts were followed for minimum 9 months and relevant statistical tests were applied.

Results: amongst the two groups we had an average time to union of 16.5 weeks in the interlocking group while

Conclusion: our study demonstrates that both methods can be used in management of distal tibia extra articular fractures. Closed reduction and internal fxation with intramedullary interlocking nail has advantage of reduced time to union, early mobilisation and lesser incidence of complications compared to open reduction and internal fxation with plating.

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*Corresponding author: Jayesh Anant Mhatre, Department of Orthopedics Grant government Medical colle tm MNP, Patil T, Mhat A comparative study of functional outcome of distal tibia extra articular fractures managed with intramedullary nailing and plating. Clin Res Foot Ankle, 10: 336.

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Table 4: Post-operative Complications and Outcomes.

Parameters to be compared	Plating group n=24	Nailing group n=24
Radiographic Healing Time(months)	5.1±1.1	3.2±1.6
Delayed Union	3 cases	2 cases
Non-Union	1 case	Nil
Valgus Malunion	2 (7 deg. & 8 deg.)	Nil
Varus Malunion	0	0
Secondary Loss of Reduction	0	0
Superficial wound infection	4	0
Implant removal	0	0

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