COMPARATIVE ANALYSIS OF FUNCTIONAL OUTCOME OF MULTIPLE METATARSAL FRACTURES TREATED WITH PLATE OSTEOSYNTHESIS AND KIRSCHNER WIRE FIXATION

Abstract:

Background:

Aim of our study is to compare and evaluate the results of surgical treatment of multiple metatarsal fractures (> 1 Metatarsal involved) using “Kirschner” wire fixation and plate osteosynthesis. In this study, 7 patients underwent ORIF and 8 underwent K-wire fixation

Materials and method:

In our study, 15 patients were included. Among 15 patients 14 male and 1 female were included. Among 15 patients, 8 patients were treated with K wire stabilisation by closed technique and 7 patients were treated with open reduction and plate osteosynthesis. AOFAS score was used to assess the functional outcome in our study.

Results:

The mean AOFAS score was lower in ORIF group(76.57) compared to a higher score of in Kwire group(91.25). Using unpaired T test, we tested for the level of significance by calculating p value. However p-value for the final followup score was 0.38(not significant).Complications rate was little high in ORIF group compared to the other group.

Conclusion:

At the end of study AOFAS score was equal in both groups. So both techniques can be done for all metatarsal shaft fractures.

Key words: metatarsal, kirschner wire, AOFAS score