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## Deformity correction of lower extremities by application of ilizarov

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**OBJECTIVE:** The objective of this study is to evaluate the results of osteotomy and application of Ilizarov of lower limb deformities.

**MATERIAL AND METHODS:** This is a case series study on 23 patients of either sex that has been conducted in the Department of Medical Teaching Institute Hayatabad Medical Complex and Akbar Medical Center Peshawar from November 2016 to April 2021. The age of the patients were 10 and above. To reduce the bias we have exclude patients with diabetes mellitus, patients on oral antiguagulants, tobacco addicts and those on steroid or immunocompromised patients. Preoperative the deformity was calculated that how much time it will take to correct, so when the deformity is corrected double the time was required for consolidation of the callus at corticotomy site. So some frame were removed early while other removed late. All the data were collected with the help of a proforma and then entered into SPSS version 20 for analysis.

**RESULTS:** There were total 23 patients in which male 9(39.1%) and female were 14(60.9%). The mean age was 19.39 while minimum was 10 and maximum was 40 years. Both sides were involved 6( 26.1%) in while right 9(39.1%) was involved in and left 8(34.8%) in cases. Site of deformity was ankle in 4(17.4%), femur in 4(17.4%), knee in 8(34.8%) while tibia was involved in 7(30.4%) cases. Single osteotomy was done in 16(69.6%) while double osteotomy was done 7(30.4%) cases due to the CORA calculated in two places. Ten (43.5%) case were totally complication free while there were acceptable residual deformity in 4(17.4%), pin lessening in 2(8.7%), pin tract infection 3(13.0%), and restricted knee movement in 4(17.4%).

**CONCLUSION:** Ilizarov External fixator is best for deformity correction in all dimension and directions if the patient and attendant are complaint otherwise.

### Biography

Muhammad Inam is an Associate Professor in the Department of Orthopedic and Trauma at the Medical Teaching Institute, Lady Reading Hospital, Peshawar. With prestigious qualifications including MRCSed, FACS, and FCPS, he is a highly skilled orthopedic surgeon and educator. Dr. Inam is dedicated to advancing orthopedic and trauma care through his extensive clinical expertise, research contributions, and commitment to training future medical professionals.