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Biography

Engin Eren Desteli has completed his PhD at Hacettepe University, Turkey. He is MD of Orthopedics at Uskudar Hospital, Istanbul. He has over 50 publications that have been cited over 70 times. He has been serving as an Editorial Member at two medical journals. He has written chapters in some orthopedic and Traumatology textbooks such as 'Basic Techniques for Extremity Reconstruction' by Springer.

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CIRCULAR TYPE EXTERNAL FIXATOR -ASSISTED ACUTE FEMORAL DEFORMITY CORRECTION AND SUBSEQUENT LENGTHENING OVER AN INTRAMEDULLARY NAIL: CASE REPORT

Background: Intramedullar nails can be used together with external fixators in treatment of deformity correction. In the case presented here, femoral malunion with 90 degrees external rotation deformity together with shortness of the affected limb is corrected using these two methods together.

Methods: The patient presented with a malunion at subtrochanteric region of femur, an external rotation deformity of 90 degrees and 2 cm shortness of the affected limb. A uni-lateral external fixator was applied under fluoroscopy. An osteotomy was made by applying the multiple drill-hole technique under fluoroscopy of the metaphyseal area in the femoral distal supracondylar region and the prepared nail was placed in the medullar canal. An intramedullar guide was placed within the intramedullar canal retrograde from the intercondylar notch. The uni-lateral fixator was then removed and previously prepared circular type external fixator was fixed to the femur. On postoperative day 10 distraction was started at the rate of 4x0.25 mm/day.

Results: Satisfactory deformity correction and limb lengthening was achieved.

Conclusion: Acute correction of the deformity and gradual correction of the limb length discrepancy can be achieved with combined treatment along with fewer complications.

