

ROLE OF 8-PLATES IN POST-INFECTIVE DEFORMITY CORRECTION OF KNEE



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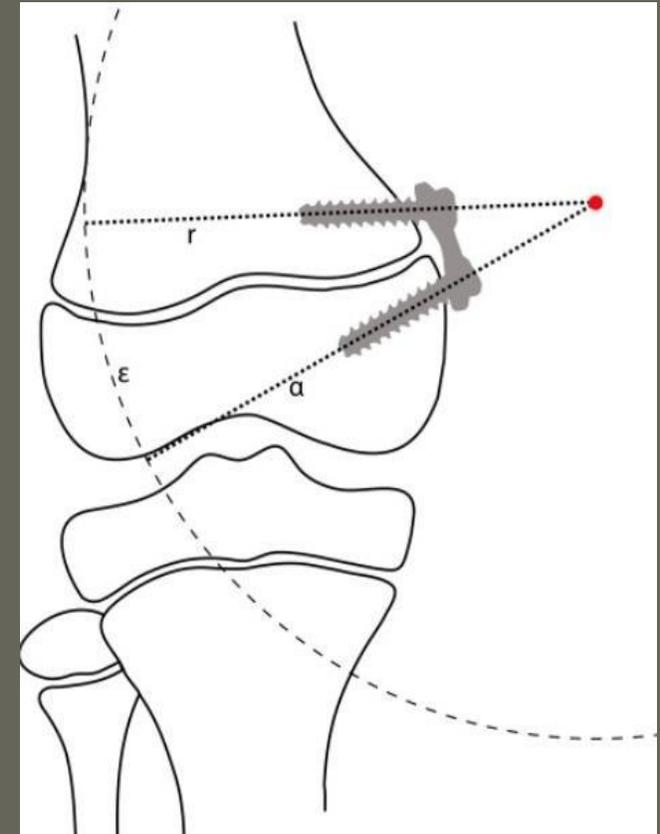
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INTRODUCTION

- Guided growth through temporary hemiepiphysiodesis is becoming the preferred treatment in treating paediatric lower limb deformities as it is minimally invasive than the traditional osteotomy. Infections around the knee in a skeletally immature child have been known to result in various progressive deformities. Treating these deformities are a challenge and have some residual disability
- AIM :Evaluate the deformity correction achieved, outcome and complications of use of 8-plates for guided growth in post- infective deformities of the knee.





METHOD AND MATERIAL

- We studied 17 patients with knee angular deformities secondary to infective etiology managed with 8-Plate guided growth. Clinical and radiological assessment of deformity done. Plain radiographs were analysed at the time of operation and at hardware removal that included measurement of deformity. Time until hardware removal, correction achieved and complications were recorded.

RESULTS

- **Total patients: 17**, The plates were inserted for an average of 16 months. 82% patients showed improvement in the mechanical axis. In both genu valgum and in genu varum the tibiofemoral angle improved significantly and 8-plate prevented further worsening of the deformity. Two patients had no significant improvement in deformity.

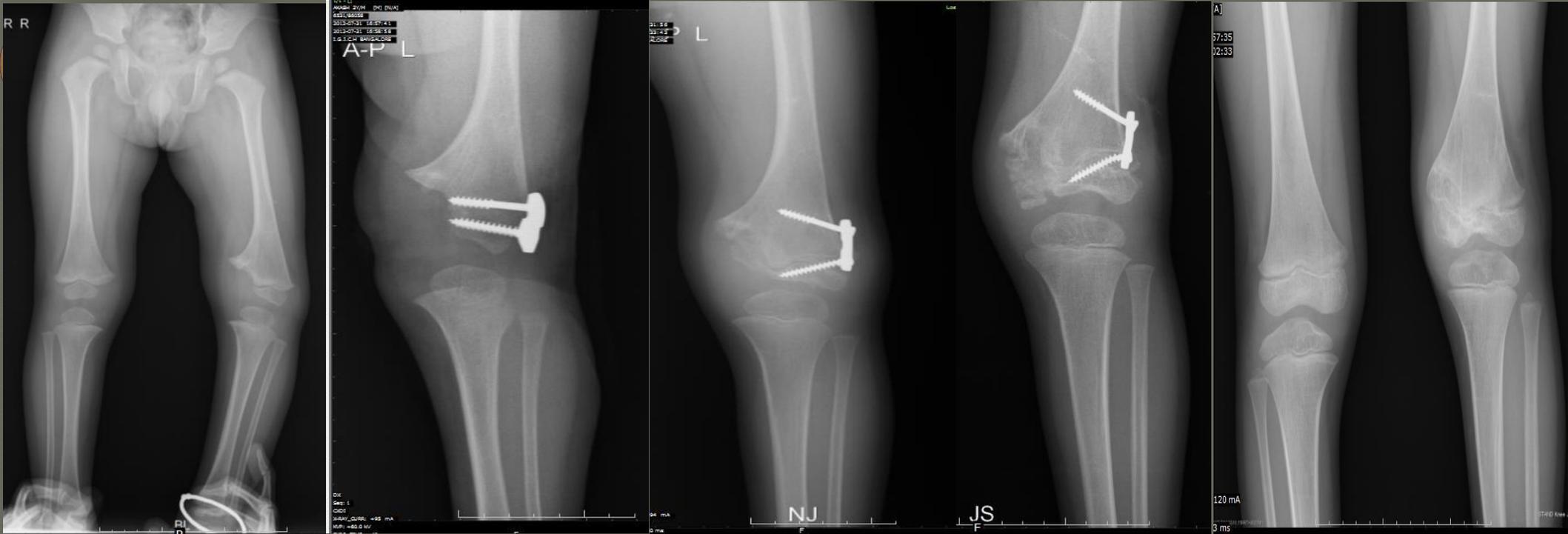
1 year follow-up



7Y/F Deformity
post
osteomyelitis of
left distal femur-
with genu
valgum- 8 plate
growth
modulation
done



Two patients had no significant improvement in deformity.
Screw loosening was observed in 2 patients.
There were no other complications noted or recurrent infections.



Post septic sequelae of left knee growth modulated: a case of deformity left knee following childhood infection of his knee.

8-plate growth modulation done for genu varum

4.5 yrs post growth modulation

CONCLUSION

- Temporary hemiepiphysiodesis with 8-plate is an effective method to correct post-infective deformities around the knee with minimal complications.
- Its ease of application, good deformity corrections achieved and lesser morbidity makes it a good option in post-infective deformities of the knee in skeletally immature child.

THANK YOU