

Outcome Of Treating Infected Non Union Of Tibia By The Limb Reconstruction System: Our Experience.

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INTRODUCTION:

The treatment of infected non union is a challenge to the Orthopaedic surgeon. The basic principles of treatment are elimination of infection, stabilization & rehabilitation. Different methods of treating this complex problem have been described like debridement & soft tissue flaps, antibiotic beads, bone grafts, Ilizarov ring fixator, LRS & orthofix.

We present our work where we have used a more patient & surgeon friendly uniplanar LRS system to treat infected non – union of tibia.

MATERIAL & METHOD

25 cases of infected non union of tibia were treated from 2000 to 2014. There were 17 male & 8 female patients with age range between 18 years to 58 years. In all the patients the infected & sclerosed bone was removed & stabilised by the LRS; corticotomy was to achieve limb lengthening. Antibiotics were prescribed in all patients as per the sensitivity report. Regular follow up was done to look for union, presence of deformity, limb length discrepancy, stiffness of neighbouring joints, reflex sympathetic dystrophy and pain.

RESULTS:

All the patients were followed up for an average of 2 years. (Range: 5 years – 1.5 years). The results were assessed as per the ASAMI score. There were 17 excellent, 6 good & 2 fair results.

CONCLUSION:

The LRS is an excellent method of treating infected non union that offers the advantages of high patient compliance, easy surgical technique of limb length discrepancy lost effective & lesser rate of complications.

REFERENCES:

Watson JT, Anders M, Moed BR. Management strategies for bone loss in tibial shaft fractures. Clin Orthop Relat Res 1995; 315:138-52.

- 1) Pavolini B, Maritato M, Turelli L, D'Arienzo M. The Ilizarov fixator in trauma: A 10-year experience. J Orthop Sci 2000; 5:108-13.
- Paley D. Problems, obstacles, and complications of limb lengthening by the Ilizarov technique. Clin Orthop Relat Res 1990; 250:81-104.
- 2) Korkala O, Antti-Poika I, Karaharju EO. External fixation in open fractures of leg. Analysis of traps and complications of the method. Rev Chir Orthop Reparatrice Appar Mot 1987; 73:637-42.
- 3) Ajmera A, Verma A, Agarwal M, Jain S, Mukherjee A. Outcome of limb reconstruction system in open tibial diaphyseal fracture. Indian J Orthop. 2015; 49:429-35.