

## **ABSTRACT**

The purpose of this book was to guide the budding/fellow orthopaedic surgeons to deal with compound fractures. This book explains the outcome of monorail fixator (Limb Reconstruction System) as primary and definitive mode of fixation of compound fractures of tibia, which have high rates of infection and non-union resulting in poor functional outcome. This provides treatment guidelines for prevention of infection, soft tissue coverage and fracture stabilization with simultaneous mobilization of nearby joints; thereby enabling early return to function.

We have conducted a study on patients having compound tibial fractures as classified by GUSTTILO-ANDERSON in type 2 and 3A, 3B, cases. During follow up, patients were assessed for various complications and statistical analysis was performed using software SPSS 25.0. Benefits of monorail fixator (LRS) has been mentioned in this book as excellent to good results in 90 percent of cases with minimum surgery time of 52.17 minutes. Full weight bearing (with fixator) was seen in 5.37 days. Fracture union occurred at 31.8 weeks with minimum complications