

EBI EXTERNAL FIXATION SYSTEM FOR FEMORAL LENGTHENING

Lengthening in the femur can involve:

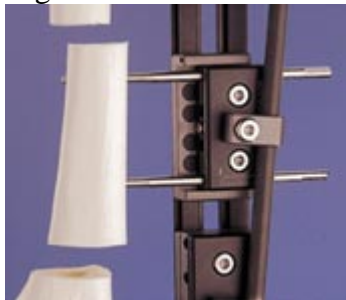
- Correction of leg length discrepancy
- Restoration of bone defect- Bone Transport
- Correction of mal-alignment

It is difficult to use a circular fixateur such as the Ilizarov External Fixateur in the femur and therefore it is often preferable to use a **Rail Fixateur**

My preference is to use the **EBI Rail Fixation System**



It allows for bone transport such as in the example above and translation and angulation



The fixateur gets fixation in the bone with special screws and adjustments are made by the patient under instruction from their surgeon to allow correction of the deformity.

CASE REPORT

17 year old girl hit by a bus as a 12 year old.

She had a deformity of the bottom of her femur which required separate surgery with plating.

Her residual problem was 7cm of shortening





Surgery was performed where the femur was cut and the rail fixateur applied and then gradual distraction at 1mm per day starting 1 week post-operatively was performed.







clothes can be modified to allow for the rail fixateur more easily than the circular fixateur.

The fixateur is removed under a short anaesthetic once the new bone has sufficiently matured.









We achieved equal leg lengths and maintained good knee and ankle range of motion with 7cm of lengthening.

Tim O'Carrigan