

## Non-Union rate of Sub Trochanteric femoral fractures treated with cephalomedullary locked nail at Luton & Dunstable Hospital- A retrospective study.

**Mr Anwar Khan**

Luton & Dunstable University Hospital, Luton UK.

### Abstract

Even with modern implants, the overall complication rates in the treatment of the subtrochanteric fractures remain high (21%). The non-union rate of 0.9% shown in a large retrospective study from the Norwegian hip fracture data base. The purpose of this study was retrospectively reviewing the main reason for the non-union. Varus mal reduction of the fracture during operation was the main reason for non-union. Data of all the patients treated between July 2013 to July 2016 were reviewed. A Total of 104 patients who underwent locked Cephalo-medullary Nail for Subtrochanteric femoral fracture were included. Clinical and radiographic data was reviewed retrospectively from electronic patient data system, of these 36 were male and 68 females. The age range was 60-97 years. only 71% (74/104) of the patients had post op X rays done of which 9% (7/74) shown non-union and were symptomatic. All radiographs were reviewed by the senior authors. 9% (7 patients) Non-Union rate was identified in our study which is very high. All cases were fixed in Varus mal reduction. Varus reduction of subtrochanteric fractures should be avoided at the time of primary fixation and all patient's with subtrochanteric fractures must be followed-up till fracture union with radiographs taken at appropriate interval.

### Biograph :

Mr Anwar Khan, graduated from Pakistan and has been trained in the UK. He has got his higher qualifications from the University of Edinburgh in Orthopaedics (FRCS T&O). He also got Diploma in Orthopaedics & Traumatology (FEBOT). He is working as a Trauma Surgeon in Luton & Dunstable.

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