

**“FUNCTIONAL AND RADIOLOGICAL OUTCOME OF FRACTURE OF
CALCANEUS TREATED WITH MINIMALLY INVASIVE PERCUTANEOUS
FIXATION”**

by

Dr. YASHWANTH KRISHNA .S



Dissertation Submitted to the

**Rajiv Gandhi University of Health Sciences, Bengaluru,
Karnataka**

In partial fulfilment of the requirements for the degree of
MASTER OF SURGERY IN ORTHOPAEDICS
Under the guidance of **DR. SANTOSH S JEEVANNAVAR**
**PROFESSOR AND UNIT HEAD, DEPARTMENT OF
ORTHOPAEDICS,**
SDM COLLEGE OF MEDICAL SCIENCES & HOSPITAL,
SATTUR, DHARWAD.



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
OF MEDICAL SCIENCES AND HOSPITAL, DHARWAD 2018-
2021**

STRUCTURED ABSTRACT

AIMS:

The aim of the study is to assess the efficacy of minimally invasive percutaneous fixation methodology in the treatment of displaced intra-articular calcaneal fractures and evaluate the post-operative functional outcomes in patients with calcaneus fracture treated with minimally invasive percutaneous methods.

MATERIALS AND METHODS:

Prospective and retrospective hospital based study in SDM College of medical sciences and hospital, Dharwad during the period between Jan 2014 to June 2020. The study included 20 patients with calcaneum fractures treated by minimally invasive percutaneous methods. Radiological was done pre & Post-operatively and clinical assessment was done at 6 month follow-up.

RESULTS:

Pre and post-operative radiographic measurements of Bohler's angle ($p= 0.01^*$), Gissane's angle (0.80), Calcaneum height ($p=0.00^*$), length (0.40) and width (0.149) were compared. Mean Clinical outcome with AOFAS score and Maryland score was 89.37 ± 5.95 and 91 ± 6.33 respectively, which corresponds to an overall excellent outcome.

CONCLUSION:

Minimally invasive techniques in the management of selected calcaneus fractures have bridged the void between traditional conservative methods and more aggressive extensile open approaches restoring the normal calcaneus anatomy and patient function.