

TITLE OF THE ABSTRACT : FUNCTIONAL AND RADIOLOGICAL OUTCOME
OF THORACOLUMBAR BURST FRACTURE

DEPARTMENT : ORTHOPAEDICS

NAME OF THE CANDIDATE : PANDIYAN LOGANATHAN

DEGREE AND SUBJECT : M.S. ORTHOPAEDICS

NAME OF THE GUIDE : DR.K.VENKATESH

OBJECTIVES

To assess the functional outcome (neurological recovery, Denis pain scale, Denis work scale) and radiological outcome using various radiographic parameters in patients treated for thoracolumbar burst fracture.

METHODS

Neurological recovery assessed using ASIA scale in patient with neurological deficit. Denis pain scale and Denis work scale was used to assess the pain and return to work during follow up. Radiographic parameters were measured using ZFP. Quantitative variables will be summarized using mean and standard deviation for normally

distributed variables or median and IQR for skewed variables. Paired samples t-test will be used to assess the changes in the angle of kyphosis between immediate postop or at the time of injury and the follow up. For all the analysis, 5% level of significance will be considered to be significant.

RESULTS

There was no improvement in neurology in patients with complete deficit at the time of injury. No neurological deterioration due to surgical fixation. Loss of correction of kyphosis is less with posterior instrumentation with screw inserted through fracture site. There was progression of kyphosis all patients treated by non-operative methods. The loss of correction of kyphosis (operative) or the progression of kyphosis (non-operative) methods did not have any correlation with functional outcome.