

# Spine and Spinal Disorders

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## Functional outcome in unstable Hangman's fracture managed with anterior decompression and stabilization with cervical locking plate and tricortical bone graft

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Between 2010 and 2016, 44 patients (range 19-75 years) with unstable hangman's fracture underwent anterior decompression and stabilization with cervical locking plate and tricortical bone graft in our institution. According to the Levine – Edwards classification all patients were unstable type with Type Ia–6(13.6), type II 35(79.5%), Type II (0), Type III (6.8). The mean period of follow up was 17 months (range 6 to 48 months). None of the patient has worsening of neurological deficit postoperatively. Neurological recovery was observed in all 9 patients. All patients were relieved from axial pain. All patients showed solid fusion with no complication related to bone graft and plate .The method in our study is feasible and safe method in treating Hangman's fracture, with the benefit of high primary stability, anatomical reduction and direct decompression of the spinal cord. To study the functional outcome in unstable Hangman's fracture managed with anterior decompression and stabilization with cervical locking plate and tricortical bone graft .44 patients (range 19-75 years) with unstable hangman's fracture were included in study. According to the Levine- Edwards classification all patients were unstable type with Type Ia

-6(13.6), type II 35(79.5), Type III (6.8). The mean period of follow up was 17 months. None of the patient has worsening of neurological deficit postoperatively. Neurological recovery was observed in all 9 patients. All patients were relieved from axial pain. All patients showed solid fusion with no complication related to bone graft and plate. The method in our study is feasible and safe method in treating Hangman's fracture, with the benefit of high primary stability, anatomical reduction and direct decompression of the spinal cord.

### Speaker Biography

Vaibhav Jain has completed his M.S. orthopaedics from Indira Gandhi Medical College Shimla in the year 2016. He completed his Fellowship in spine surgery from Hosmat Hospital Bangalore. He has presented scientific papers in national, zonal and state conferences. He has been invited as a faculty in North zone orthopedic association conference 2018 (NZOACON 2018). He received a BEST PAPER AWARD in NZOACON 2018. He has published 2 papers on cervical spine injury in PUBMED indexed journal. Currently he is working as Senior Resident in Department of orthopaedics AIIMS Bhopal and actively involved in planning and management of spinal disorder in the department.

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