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Management of traumatic unstable dorsolumbar spine injuries with transpedicular screw and rod fixation: Our institutional experiences of 59 cases

Background: Dorsolumbar spine injury is the most common cause of paraparesis or paraplegia. Optimal goals of the management include establishment of a painless, balanced and stable spinal column with vertebral fusion.

Material & Methods: We reviewed various types of fractures of dorsolumbar spine, their management and outcome in a prospective study of 59 cases of dorsolumbar trauma managed surgically at our centre (January 2014-December 2017). All patients underwent complete neurological examination, X-ray and MRI imaging of the spine.

Study Design & Settings: Prospective observational descriptive study in a tertiary care hospital from January 2014 to December 2017.

Results: 59 consecutive patients of dorsolumbar spine injuries with neurological deficit ranged from 14-65 years were included in this study. Out of them 56 (94.91%) patients were male and remaining 3 (5.09%) were female. Most common D12 vertebra was fractured in 20 cases, L1 in 19 cases, L2 and L3 in 4 cases each; L4, D12/L1 and L1/L2 in 2 cases each and D9, D11, D10/D11, D11/D12, D12/L3, D5/D6 in one case each. Most common mode of injury was fall from height (84.85%), others due to road traffic accident. Majority of the patients belonged to Frankel Grade A (71.18%) i.e. 42 cases presented with complete paraplegia while 17 presented with incomplete neurological deficit. All patients were operated using posterior approach, by decompression of the cord by laminectomy at the site of injury with stabilization by interpedicular screws and rods above and below the level of injured vertebral body.

Biography

Tofael Hossain Bhuiyan is a senior Neurosurgeon of international repute with excellent management skills. He has over 19 years of experience in treating complex brain and spine problems like brain tumors, spinal disc prolapsed, brain stroke and subdural hematoma, spinal deformity with a special interest in childhood neurosurgical problems like hydrocephalus and spinal birth defects. After finishing his MBBS and MS, he had undergone many specialized courses in Pediatric Neurosurgery, a better part of which has been rendered in the Italy, USA, and China etc. He had been Professor at Dept. of Neurosurgery, Rangpur Medical College, Bangladesh.

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