



In-Hospital and One Year Outcome of 1281 Severe TBI Patients from India: A single Center study

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Introduction

Although developing countries like India bear the maximum load of TBI, there is insufficient data on outcome of these patients in these countries

Aims & Objectives: To assess the In-hospital mortality and 6 month Outcome of patients with severe TBI managed at a single institution in India

Methods

This prospective study was carried out a level I trauma center in New Delhi over a 26 month period (May 2010 -July 2012). Clinical and radiological records of consecutive patients of severe TBI (GCS=8) were analyzed. Outcome assessment was done by assessing In-hospital mortality. 12 month outcome was assessed using GOS. A GOS 1-3 was considered as 'Unfavorable' outcome and GOS 4-5 was considered as 'favorable' outcome.

Results

A total of 1281 patients were enrolled in the study. There were 1114 (87%) males & 167 (13%) females with the mean age of 31.96 ± 16.42 years (range: 1-90 years). The overall mortality was 38.56% (n=494). Of the 523 patients with motor score of 5, 81 (14.65%) expired. The mortality was 29.38% (n=57) in patients with motor score of 4; 39.05% (n=41) in patients with motor score of 3; 63.53% (n=169) in patients with motor score of 2 and 91.19% (145) in patients with motor score of 1.

Overall, 71.54% (n=646) had unfavorable outcome at 6 months. Unfavorable outcome were 39.94% (n=125) in patients with motor score of 5, 71.43% (n=95) in patients with motor score of 4, 85.71% (n=60) in patients with motor score of 3, 93.45% (n=214) in patients with motor score of 2 and 96.79% (n=151) in patients with motor score of 1.

Conclusions

This is the largest single center study of its kind from the Indian subcontinent and shows that large number of severe TBI (28.45% in our study) had favorable outcome at 12 months. This study also shows that a significant number of patients with poor GCS may have good outcome and therefore aggressive management should be done for all severe TBI patients.

Learning Objectives

This study shows the magnitude of TBI in India and the outcome of severe TBI in this part of the part [DEFAULT POSTER]