

## Clinico-Epidemiological determinants of hospital stay and ambulation in patients with Traumatic Spinal Cord Injury by survival analysis

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**T**raumatic spinal cord injury (TSCI) is one of the most devastating injury, and results in different neurological deficits. A long hospital stay occupies medical and financial resources which leads to substantial social loss and economic burden. To optimize resource utilization for rehabilitation care centers treating TSCI patients, it is important to evaluate the determinants of hospitalization length as well as their ambulation. A retrospective cohort study was conducted to identify the associated epidemiological and clinical factors affecting length of stay and ambulation in TSCI, utilizing a quantitative approach. The medical records of 108 patients with TSCI, who fulfilled the inclusion criteria and discharged from the hospital between 1st January 2015 and 30th June 2017 were reviewed using data collection tool. Survival Analysis was done to estimate the probability of ambulation in the TSCI patients with respect to their length of stay. The mean duration of hospital stay was  $29.37 \pm 17.44$  days. 63.6% of age group 15-30 years had hospital stay of  $\geq 30$  days. Age

(AOR 9.88; 95% C.I. [2.33 – 41.81]; 0.002), employment status (AOR 5.57; 95% C.I. [1.09 – 28.37]; 0.039), location of residence (AOR 0.14 95% C.I. [0.03-0.63]; 0.01), Pressure Ulcer (AOR 5.81; 95% C.I. [1.77 – 19.06]; 0.004) and history of treatment (AOR 1.98; 95% C.I. [1.76– 14.16]; 0.002) were significant predictors of length of hospital stay in patients with TSCI. The probability of ambulation was better in females as compared to males on survival analysis ( $p < 0.001$ ). Age ( $\geq 35$  years), gender (males), location of residence (in same city) and neurological category (A) had hazard of non-ambulation.

### Speaker Biography

Mohit K Srivastava has completed his M.B.B.S at the age of 25 years from B.R.D Medical College, Gorakhpur, India and is third year post graduate (MD) resident in Department of Physical Medicine and Rehabilitation in King George's Medical University U.P., Lucknow. He has also done fellowship in pain medicine and intervention. He has published 2 case reports and 3 original research papers and has presented paper in national conferences three times.

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