

## Traumatic Spinal Cord Injury in King Fahd Medical City: An Epidemiological Study

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**Abstract :** Introduction: Our study aims to estimate the characteristics & causes of TSCI at King Fahad Medical City (KFMC) in Riyadh city in order to hypothesize strategy for primary prevention of traumatic spinal cord injury. Method: Cross-sectional, retrospective study was conducted on all TSCI patients who aged 14 and above and who were admitted to rehabilitation center of King Fahad Medical City from January 2012 to December 2015. Furthermore, a descriptive analysis was conducted while considering factors including age, gender, marital status, educational level and causes of injury and characteristics of injury. Results: Total of 216 patients were admitted during this period, mean age was 28.94, majority of patients were male (86.5%), 71.7% of total patients were high school level of education or less, 68% were single, RTA was the main cause with 90.7% and the main result of TSCI was complete paraplegia 37%. Furthermore, statistically, we found that males are at a low risk of having incomplete paraplegia compared to female ( $p = 0.035$ ,  $RRR=0.35$ ). Conclusion: The rate of TSCI related to RTA has increased in Saudi Arabia in previous years despite the government's efforts to decrease RTA. It's clear that we need TSCI registry data developed on the basis of international data standards to have a clear idea about the exact etiology of TSCI in Saudi Arabia. This will assist in planning for primary prevention.

**Keywords :** traumatic spinal cord injury, road traffic accident, Saudi Arabia, spinal cord injury

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