Poster Presentation

Traumatic Spinal Injuries in Saudi Arabia: A Retrospective Single-center Medical Record Review
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Introduction
The aim of this retrospective medical record review was to describe the patterns and outcomes of traumatic spinal injuries (TSIs) in a tertiary care trauma center in Riyadh, Saudi Arabia.

Methodology
Data of all patients who presented at a setting level-1 trauma center with any type of spinal trauma between February 1, 2016 and December 31, 2018 were reviewed. The data obtained included age, gender, nationality (as Saudi and non-Saudi), date of presentation, site of fracture/injury, associated injuries, mechanism of injury, presence of neurological involvement, and hospital mortality. The main outcome of the review was frequencies of different types of TSI across various subgroups.

Result
We identified 692 patients who presented with TSI during the study period. The mean age was 36.9 years. Males represented 83.2% (n = 576) of the sample size, and the most common mechanism of injury was motor vehicle collision (MVC), accounting for 66.8% of the cases (n = 462), while fall-related injuries were seen in 31.6% of the cases (n = 219). A total of 454 (65.6%) of all patients were Saudi, and 332 (73.1%) of the TSIs in Saudis were due to MVC. Non-Saudi cases accounted for 238 (34.4%) of all patients, and 89 (37.4%) of the non-Saudi injuries were due to falls from height, this association was statistically significant (p < 0.001).

Conclusion
TSI was not thoroughly examined in Saudi Arabia; therefore, this study is considered the first to be done in the Kingdom using a representative sample. The fact that non-Saudi patients had a higher proportion of falls as a mechanism of injury should be taken into consideration in terms of raising awareness and taking more safety precautions, as most construction workers tend to be expatriates.