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Analysis of injury severity score in different seating position of coach collisions: A case-control study

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Aim: This small pilot study aims to evaluate the role of seating position arrangement in Injury Severity Score (ISS) in traffic coach accidents.

Method: A total of 106 cases representing of 2 traffic coach accidents with similar specification from April 2017 to September 2017 enrolled in this matched case-control study. All included patients were treated at the Emergency Department of the Trauma Center. The injury severity of passengers was determined by ISS calculation. We categorized ISS to 2 group of severe ($ISS \geq 25$) and non-severe ($ISS \leq 24$) and seating position to front and rear group. Data was analyzed by SPSS.

Result: The case and control group consisted of 16 persons with $ISS \geq 25$ and 90 persons with $ISS < 25$, respectively. About 11 persons of the cases seated at front of coach and 5 persons at rear position. In control group, 43 and 47 persons seated at front and rear position, respectively. The risk of severe injury was two times more likely in passengers seating in front of coach ($OR=2.405$, $CI=0.773$ to 7.482). Patient's distribution according to ISS was minor (45.3%), moderate (21.7%), serious (17.9%), severe (8.5%) and critical (6.6%).

Conclusion: As the passengers seated in front of the coach had more likely to sustain severe traumatic injury, so injury severity could be declined by simple intervention such as arrange susceptible passengers in rear seating positions.

Biography

Mahdi Asadi is currently working in the Department of Emergency Medicine in Azad Medical University, Qom, Iran. He has received his Medical degree from Tehran University of Medical Sciences. Later, he has worked in Emergency Medicine Resident at Shahid Beheshti University of Medical Sciences from 2011-2014. He is the Representative of Jahrom University of Medical Sciences in association of emergency medicine in Tehran. He was also a Member of Research Council at Jahrom University of Medical Sciences.

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