Epidemiology of Road Traffic Mortalities among bus / minibus users in East Azerbaijan, Iran

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Abstract:

Background: The fatalities risk for passengers of cars, buses and minibuses are at least twice as large as truckers. In Iran, according to the Forensic Medicine Database, over a 5-year period, 13 bus-related collisions lead to 919 deaths. Objective: The purpose of this study was to evaluate the epidemiological characteristics of mortality due to road deaths in buses and minibuses during 2006-2017 in East Azerbaijan Province of Iran.

Methods: The mortality rate of users of 245 buses / minibuses, recorded at the forensic medicine databases were analyzed using STATA 13 statistical software.

Results: Men (70%) were assigned the majority of victims (mean age of 18.6 ± 41.5 years), after which adults (79.18%), illiterate (22.4%) and self-employed (25.3%) were victims. Passersby and police have played roughly zero roles in the transportation of victims since 2014. The process of reducing of trending for bus and minibus users was observed over the study period. Head-neck-face trauma was more prevalent among those who died before admission. Rollover and falling were significantly common among bus users and users of the minibus respectively. Trucks, vans and trailers as crash counterpart vehicles caused 59% of deaths, with the exception of cases where no other vehicle was involved. Victims were more at risk of death in the hospital, when accidents occurred on the city’s inner roads (OR: 4.17; 95% CI: 1.7-9.9). The elderly have died 2.78 times more than patients in the hospital compared with other age groups (95% CI: 1.23-6.26).

Conclusion: To intervene on traffic-related knowledge need to be prioritized of attitudes and behaviors, male adults, illiterate, and self-employed bus / minibus users. The type of vehicle involved in an accident should be considered as an important factor in the deaths of accidents. Further research is needed in the future in this regard.

Keywords:

Epidemiology, Injuries, Mortality, Bus, Minibus, Road traffic accident

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