

Traffic Accidents In Ten Years In Turkey: Advanced Analysis Of National Data

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Background:

Classical accident description has changed to 'Accident is the last chain of known behaviors, fails or reasons and it's avoidable/preventable with taking the right measures'. Although the numbers of deaths due to traffic accidents are decreasing, it's still in the first five ranks of disability adjusted life years (DALY) in 2013. We wanted to describe the traffic accidents (TA) in last ten years and conducted an analysis of factors that can affect TA using a Turkish population-based accident data.

Methods:

The TA death/injury data from Directorate General of Highways was used. The analysis includes 1.201.203 TA resulting with death/injury occurred in 2005-2014. SPSS Statistics Version 21 was used for all analyses. The descriptive parameters were sex, age, education, track defect, daytime,

injury/death, and vehicle properties. LR was performed for the analysis of TA result (death/injury).

Results:

In the study drivers' median age was 35, 94.1% was male, 60.1% had primary school or lower education. Of the TA, 65.8% were in daytime, 44.2% were at weekends, 80.1% were at residential area, 61.5% were cars, 91.6% had 25 or lower vehicle age. In LR analyses, driver being male, low educated, accidents with non-car vehicles, in non-residential area, on weekends, in evening hours were significantly associated with TA resulting with death/injury. Summer season was protective ($p < 0.001$).

Conclusions:

We investigated the number of deaths are decreasing and the injuries are increasing due to TA. It was seen that fatality increases when TA occurs with personal features like being male, poor educated and older; day properties like evening, summer and weekend; non-car vehicles and non-residential area. Our study suggested that creating TA awareness in young ages should be considered. Also national data of TA should include scene analysis and scene should be sync with GIS.

Key messages:

- The fatality of traffic accidents in Turkey is still high and needs close monitorization.
- The reason of traffic accidents in Turkey is mainly low socioeconomic status which is an indicator of inequality.