

Motorcyclists Head Injuries Prevention Strategies (A Case Study of Tehran Province)

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Abstract

Globally, head and neck injuries resulting from motor vehicle accidents are a major cause for concern due to their alarmingly high frequency and fatalities rate. Even so, fatalities are not the only negative impact of crashes. Some other very common consequences of such injuries include temporary and permanent morbidity and disability. This paper examines some of the measures taken to reduce not only the frequency but also severity of motor vehicle crashes, especially motorcycle accidents, with the aim of minimizing the number of impacts to the head and neck, which result in traumatic brain injury, as well as mitigating the woeful consequences of such occurrences. The measures taken by the Tehran Traffic Police to reduce the frequency and severity of accidents and injuries include legislation of stricter traffic laws for all motorists and for motorcyclists in particular, rigorous enforcement of traffic laws, and conduction of tutorials on traffic safety and driving laws for traffic law violators as well as workshops for the public in order to elevate public awareness regarding traffic affairs. Data analysis was carried out on the crash data from Tehran province the results and measures taken by the Tehran Traffic Police. The results showed that when considering the growing number of vehicles on the streets, the frequency of road traffic accidents resulting in fatalities caused by head injuries dropped significantly after implementation of preventive measures by the Tehran Traffic Police. Specifically, road traffic fatalities in Tehran dropped 29 percent, over double the national ratio and when taking into account the number of motorcycles in Tehran, there was over 21 percent reduction in the head injury fatality ratio.

Keywords: Accident, Crashes, Motorcyclist Injuries, Helmet, Traffic Regulations, Education