

## Medical emergencies pertaining to two wheelers accidents: a study from Andhra Pradesh

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Globally, every half minute someone dies on the world's road. Annually, over one million people die and around 25 million are injured or permanently disabled from road traffic accidents (RTA). Around 75% of the fatalities and injuries occur in the less developed countries. The global burden of disease report, published by the World Health Organization, predicts that road traffic accidents (RTA) will move from 9<sup>th</sup> place in 2005 to 3<sup>rd</sup> on the list for worldwide death and disability by 2030. This current study was undertaken to find out the epidemiology, risk factors and impact on severity of injuries in two wheeler accidents and other parameters with survival status. 15,299 two wheeler accidents emergencies were reported to Emergency Management and Research Institute (EMRI) Andhra Pradesh from August, 2007 to July, 2008. Based on the parameters required for the study and their availability, 13,777 two wheeler accident cases were selected for analysis. Study variables to understand socio-demography with reference to survival status. Odds ratios were used to determine the strength of association. There were 87.3% male and 12.7% female accident victims. Majority of accidents victims (63.4 %) were in 21-40 age groups. Out of total accidents, 81.3% of the accidents were reported from rural area. Head and neck injury is the most common injury (36.1%) recorded among the two wheeler accident victims followed by lower limbs (21.4%) and multiple regions (15.4%). There was significant association between mechanism of injury and incident location ( $P < 0.001$ ). The major cluster of two wheeler accidents were (male, rural and road side) and (female, urban and high way). There is higher risk of injury in the lower limbs ( $P < 0.01$ ) and multiple regions ( $P < 0.01$ ) as compared to other part of body in two wheeler accidents.

Key words: Road traffic accidents, Emergency and EMRI.

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