

**HOW SAFE ARE OUR ROADS?  
EMPIRICAL EVIDENCE FROM ECONOMETRIC  
MODELS**

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**ABSTRACT**

Road safety has been a perennial issue since the turn of the millennium. Death toll caused by traffic accidents is constantly rising, and is a major issue that the government has to address. Using the five pillars of the Safe Systems Approach, this research examines the road traffic laws in the Philippines and Australia, and gives descriptive statistics on road safety data available in the Philippines. This can serve as basis for policy recommendations in decreasing road crash injuries and fatalities on the road. It also utilizes the Multinomial Logit (MNL) Model and Tobit Model in analyzing data from the Philippine General Hospital on vehicular crash victims. The Tobit model shows that although the type of injury is not a significant predictor of the number of days admitted in the hospital, a significant finding of this study is shown related to an individual victim's road crash prognosis. The MNL shows that the type of injury and number of days admitted in the hospital can predict the outcome of the patient's prognosis.

Keywords: road safety, traffic laws, vehicular crash, multinomial logit model, road crash patients