

AN EVALUATION OF ROAD TRAFFIC CRASHES CAUSATIVE FACTORS IN OGUN STATE NIGERIA

¹Adebola John Babalola, ²Morakinyo Kehinde Onifade and ²Oluwaseyi Joseph Afolabi

¹Federal Road Safety Corps, Ota Ogun State

²Department of Management Technology, Bells University of Technology, Ota Ogun State

Corresponding Author's email: adebolababalola19@yahoo.com



Abstract

The aim of the study is to evaluate road traffic crash causative factors in Ogun State Nigeria. Questionnaire on road safety risk factors which involved 30 questions was administered on 240 respondents drawn from six of the 20 LGAs of Ogun State. The outcome of respondents' which were transposed into 240 x 30 data matrix was analyzed with Principal Component Analysis (PCA) model of Factor Analysis. The results showed that over speeding and use of substandard automobile spare parts has the highest communalities of 0.720 and 0.810 respectively. The scree plot and computed eigenvalues justified the adequacy of nine components extracted by Varimax rotation. The first two factors which were labeled as vehicle / environmental concern and driver's knowledge/safety concern comprised of seven (7) variables each and they were considered principal factors, because they have highest number of variables among other factors. It is therefore recommended that attitudinal change on the part of road users and government intervention on road maintenance will go a long way to reduce road traffic crashes in Ogun State, Nigeria.

Keywords- Crash, Factor analysis, Road, Varimax rotation