IDENTIFICATION OF CYCLES AND PERIODIC OSCILLATIONS OF REPORTED NUMBER OF INJURED FROM ROAD TRAFFIC ACCIDENTS IN LAGOS STATE, NIGERIA

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BACKGROUND INFORMATION

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ABSTRACT

Using mostly secondary data on vehicular accidents obtained from the Nigeria Police Force and Federal Road Safety Commission, the study examined a forty-five year review of number of injured from road traffic accidents (1970-2015) in Lagos State. The reported injured from road traffic accidents in the 20 Local Government Areas of Lagos State were compared using the Analysis of Variance (ANOVA). The result showed that for the two factors, Local Government Areas and years, the F-calculated of 22.34 and 9.82 respectively were higher than the F-tabular of 1.57 and 1.46 respectively at 0.05 level of significance. It then implies that the means for each of the factors, reported number of injured from road traffic accidents across the 20 Local Government Areas of Lagos State and across different years were significantly different. The result of the multiple regression analysis was 0.41. This implies that the proportion of variation in the dependent variable (i.e. number of injured from road traffic accidents) explained by the independent variables (i.e. length of roads, presence of road safety and population) was 41%. Based on the findings, recommendations were proffered on how to reduce the phenomenon of injured and possible deaths from traffic accidents in Lagos State.

Keywords: Oscillations; periodic, cycles; reported number of injured; accidents; traffic.