



## A STUDY OF ACCIDENTS OCCURS IN KOLHAPUR CITY USING STATISTICAL MEASURES

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### ABSTRACT

*The impact Globalization is shown on many developing countries across the world. India is one of the such country, which benefited the most. Increased number of economic activity raised the consumption levels of the people across the country. This created wide scope for increase in transportation and travel. The increase in the number vehicles since last 20 years has put lot of pressure on the existing roads and ultimately resulting in road accidents. there is an increase of the two wheeler and four wheeler vehicles with no road expansion. Motor vehicle crashes are a common cause of death, disability and demand for emergency medical care.. In this study we study the pattern of various types road accidents in Kolhapur over a few years. Our study shows the number of accidents, proportion of injuries and deaths as well as the proportion of the male and female are same and the accidents are distributed uniformly throughout the year.*

**KEYWORDS:** Graphical Representation, Z- Test, Level of Significance, ANOVA.

### INTRODUCTION

The process of rapid and unplanned urbanization has resulted in an unprecedented revolution in the growth of motor vehicles worldwide. The alarming increase in morbidity and mortality owing to road traffic incidents (RTI) over the past few decades is a matter of great concern globally [1, 2, 4, 5]. Currently motor vehicle accidents rank ninth in order of disease burden and are projected to be ranked third in the year 2020 [7-9, 11-13, 15-16]. In India, more than 70,000 people get killed due to RTI every year, and this needs to be recognized as an important public health issue [3, 14, 17]. Very few studies have attempted to understand the epidemiology of risk factors associated with RTI in Indian cities [10, 18]. Globally, more than 1 million people die each year from traffic crashes and about 20–50 million are injured or permanently disabled

The death rates due to various diseases are decreased due to the scientific development. But the death rates due to accidents are increasing rapidly.

The accidents cause loss of human lives, injuries and huge loss of vehicles. The accidents are not purely random. There are several causes for the accidents namely rough road, increase in population, narrow roads, increase in number of vehicles & their poor maintenance and improper knowledge of driving. In this study we have collected the information regarding the accidents in the Kolhapur city area from last five years. The collected data is analysed for studying the various characteristics. The Kolhapur is a city having about 38 lakh 76 thousand population with an area about 7686.54 sq.km. The Kolhapur city is having 4 police stations.

### COLLECTION OF DATA

The data is collected from records of 4 units of police station in Kolhapur city which are “Laxmipuri police station”, “Rajarampuri Police station”, “Karveer Police station” and “Shahupuri Police station”. We collect the information about the date of accidents also about the number of deaths and injuries in accidents and their age & sex. Also we