

ABSTRACT

The number of motorcycles in the country has been posing numerous problems on major roads in Metro Manila defined by the increasing number of motorcycle related accidents. The motorcycle is one of the most popular vehicle transports in the Philippines; proportional to this is its huge impact in the traffic mix which results to a high rate of motorcycle related accidents. For the past years, the death toll from vehicular accidents involving motorcycles has been increasing. One technique to address the problem is to separate the motorcycle from other motorized vehicles in traffic flow. The technique of employing a motorcycle lane on Commonwealth Avenue, one of the major roads in the Philippines, was introduced by the Metro Manila Development Authority (MMDA) for the first time in the country. This engineering approach was adapted and has also been used by traffic management authorities in other countries.

This study determined the effectiveness of the motorcycle lane as implemented in Commonwealth Avenue. The causes of motorcycle related accidents are also tackled in the study. The study revealed that there is a significant difference in the number of motorcycle accidents and the motorcycle lane itself having a P value of less than 0.05. There is a slight difference between the number of accidents and the time of accident with a P value of less than 0.01. The reduction of the percentage on the factors of these accidents is also discussed in the study. The study determined the effectiveness of the motorcycle lane in reducing the number of motorcycle related accidents.