

Thesis Title            Factors Related to Motorcycle Accidents:  
                                 A Survey at Police General Hospital and  
                                 Bangkok Metropolitan Area

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Date of Graduation    29 May B.E. 2535 (1992)

#### ABSTRACT

A cross sectional survey was conducted by means of a structured questionnaire at Police General Hospital and Bangkok Metropolitan area from March 20 - April 25, 1992 to identify some of the factors related to the occurrence of motorcycle accidents.

One hundred motorcycle drivers involved in accident at the hospital and one hundred motorcycle drivers around Bangkok area were interviewed about socio-demographic factors like age, sex, marital status, education, and occupation; other factors about the road user like alcohol intake, number of riders, purpose of riding the motorcycle,

use of helmet, license, and length of driving experience; factors about the road and environment like type of road, presence of sand or pot-holes on the road, time of day; and factors about the vehicle (motorcycle) like power of engine and speed which are related to motorcycle accidents.

Statistical analysis like frequency distribution, Chi-square and T-test were employed initially to facilitate the process of selecting variables that were utilized in the correlation and multiple regression analysis with the ultimate objective of identifying the most probable factors that are associated with the occurrence of motorcycle accidents.

The study revealed through multiple regression that age, educational attainment, speed, pillion riders, presence of sand or pebbles over the road surface and type of road are significantly related to motorcycle accidents.

The result of this study is an important baseline information for policy-makers to adopt in the planning and implementation of traffic management and road safety education programmes.