

ESTIMATING THE MEDICAL COST FOR MOTOR VEHICLE ACCIDENT

(Menganggar Kos Perubatan bagi Kemalangan Kenderaan Bermotor)

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ABSTRACT

The purpose of this study is to investigate the relationship between the cost of road accident treatment at Hospital Canselor Tuanku Muhriz and factors such as gender, age group, vehicle type, injury type, duration of stay in hospital and severity. The data used were population data collected at the hospital Emergency Department for a period of one year from 2007 to 2008. A total of 543 road accident patients were taken for this study but only 507 patients were used for analysis. The analyses used in this study were divided into two, namely descriptive analysis and multiple regression analysis. The results of the study show three independent variables i.e. the period of hospitalization, injury type and severity provide significant p -value and t -value to the cost of road accident patients. The methodology from this study can be used in related future research.

Keywords: road accident; medical cost; regression

ABSTRAK

Kajian ini bertujuan untuk menyelidiki hubungan antara kos rawatan kemalangan jalan raya di Hospital Canselor Tuanku Muhriz dengan faktor-faktor seperti jantina, kumpulan umur, jenis kenderaan, jenis kecederaan, tempoh berada di hospital dan tahap ketenatan. Data yang digunakan adalah data yang diperolehi di Jabatan Kecemasan bagi tempoh satu tahun dari tahun 2007 hingga tahun 2008. Sejumlah 543 orang pesakit kemalangan jalan raya diambil untuk kajian ini tetapi hanya 507 orang pesakit sahaja digunakan untuk analisis. Analisis yang digunakan dalam kajian ini terbahagi kepada dua iaitu analisis perihalan dan analisis regresi berganda. Hasil kajian ini menunjukkan tiga pemboleh ubah tak bersandar iaitu tempoh berada di hospital, jenis kecederaan dan tahap ketenatan memberikan nilai- p dan nilai t yang signifikan terhadap kos rawatan pesakit kemalangan jalan raya. Tatakaedah kajian ini boleh digunakan dalam kajian masa depan yang berkaitan.

Kata kunci: kemalangan jalan raya; kos rawatan; regresi

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