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ANALYSIS OF EMERGENCY SURVIVAL RATE AFTER TRAFFIC ACCIDENTS BY THE EXACT & ASYMPTOTIC DISTRIBUTIONS STATISTICS

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Aim: The aim is to estimate the emergency survival rate after traffic accidents if these rates could analyse the prefecture difference.

Materials & methods: As for the totalized Japan, each prefecture in all Japan and 4 prefectures in the Hokuriku area in Japan, the number of traffic accidents, the number of the injured persons, the number of the injured dead persons were extracted from the total statistic book edited by the National Police Agency. The same kinds of data as for cities & towns in Niigata Prefecture were also extracted from the homepage of Niigata Prefecture in 2014, 2013 & 2012. Using these data, the emergency survival rate after traffic accidents were calculated using the following formula; The emergency survival rate after traffic accidents = (the number of the injured & dead persons after traffic accidents—the number of the injured persons after traffic accidents)/ the number of the injured & dead persons after traffic accidents) Each rate by each 4 prefecture & by secondary medical area in Niigata was tested using non-parametric one-way ANOVA. SAS Analytic Pro was used for statistical analysis.

Results: Significant differences were suggested as the following, between the secondary medical area only using the Cramer-Mises test only as for the number of traffic accidents, the number of dead persons after traffic accidents, the number of injured & dead persons after traffic accidents and the number of injured persons after traffic accidents (CM<1.5).

Biography

Toshiko Sawaguchi has been acting as originally pediatric forensic pathologist and moved to the epidemiology and public health field since 1st April 2015 as the research managing director.

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