広島統計談話会

Hiroshima Statistics Study Group

第 232 回談話会を下記のように開催致しますので
御参集下さいますよう御案内申し上げます。

You are cordially invited to the 232nd meeting as scheduled below.

日　時：　　　2006 年 11 月 24 日（金）15:00-
Date :　　　　November 24, 2006 (Fri) 15:00-

場　所：　　　放射線影響研究所 講堂
Place:　　　　RERF Auditorium

演　者：　　　加茂 憲一 博士（札幌医科大学医学部一般教育数学教室講師）
Speaker:　　　Ken-ichi Kamo, Ph.D., Lecturer, Division of Mathematics, School of Medicine Liberal Arts and Sciences, Sapporo Medical University

演　題：　　　「地域がん登録に基づくがん罹患数の推定方法」
Title:　　　　"An estimation of cancer incidence using data from population-based cancer registries"

要　約：

Accurate cancer incidence data is needed to plan, monitor and evaluate national cancer control programs. In Japan, however, such information is not available due to low degree of completeness to cancer registries. In order to have incidence estimation adjusted for completeness of registration, we obtained a nonlinear regression model between observed incidence/mortality ratios and proportions of death certificate notification to observed incidence in various cancer registries. This model gives us the "true incidence/mortality ratio", which is at zero point of the proportion of death certificate notification in the regression curve. This is an ideal registration state without any missing cases. By multiplying it to the number of cancer mortality from the National Vital Statistics, cancer incidence can be estimated. The results of applying this method for Japanese cancer incidence estimation in 1997 were the "true incidence/mortality ratios" 2.074 for men and 2.587 for women. Then cancer incidences in Japan were estimated to be 346,000 for men and 280,000 for women. We proposed a new method to estimate National cancer incidence from the view of adjusting for completeness. This method gives us more accurate estimation in a country having several cancer registries with various degrees of completeness of registration.