





















香港大學香港賽馬會防止自殺研究中心

Estimation of the annual change of chronic morbidity

Examine the <u>annual change</u> of chronic morbidity, we fit a logit form, the formula of the logistic regression model is written as follows:

$$\ln(\frac{CMR_{x,s}}{1-CMR_{x,s}}) = \alpha_i + \beta_i(yr) + \varepsilon_i \qquad \varepsilon i \sim N(0, \sigma 2)$$

• Where CMR x, s is the age and sex specific chronic morbidity rate; year (yr) is the independent variable; β is the slope coefficient of the regression model, which represents the annual change of logit form of CMR x, s; α is the constant term, which represents the expected value of logit form of CMR when year equals to zero.

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Annual change of chronic morbidity rates, 1999-2008

	Males	Females	Both sexes
<50	0.088	0.075	0.080
50-54	0.058	0.014	0.036
55-59	0.037	0.061	0.051
60-64	0.061	0.072	0.067
65-69	0.107	0.077	0.092
70-74	0.095	0.090	0.091
75-79	0.098	0.095	0.097
80+	0.191	0.153	0.167
Total	0.086	0.076	0.081

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Results

- Intrapolation and Sullivan prevalence-based method;
- Compute <u>expected number of years</u> lived free of chronic morbidity;
- The proportion of the life-time free of chronic morbidity, 1999-2008;
- Projected numbers of HK people aged 60+ suffered from chronic diseases, with (i) average prevalence of 2006-2008, remain constant up to 2036 and (ii) increased by 3% per year.

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Chief Executive Policy Address 2009

- "Increase from 50%-90% the proportion of nursing home" Expensive.
- Purchasing, for the first time, vacant places, cost more expensive
- Building more space is important but still won't be sufficient. With 6.5% residential place

The demand will certainly outgun the supply in terms of actual number of place needed for residential care.

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50 55 60 65 70 75 80 85 90 95

A new paradigm shift

(1) Individual responsibility vs government committment: Chronic diseases are indeed as a result of lifestyle, the community still has to be responsible to their health However, Individual responsibility can have its effect only where individuals have equitable access to a healthy lifestyle, and are supported to make healthy choice.

- This is especially true for children, who can't choose the environment in which they live, their diet and their passive exposure to tobacco smoke
- Governments have a crucial role to play in improving the health and well being of the populations, and in providing special protection for vulnerable groups

The poor people also have limited choices about the food they eat, their living conditions, access to health care and education.

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(ii) Finance:

No free lunch!

someone has to pay for it

Don't expect the insurance companies would help to solve chronic disease burden

It is how we can make effective use of the resources in the community (Government and the Hong Kong population) to solve the problem.

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THE HONG KONG JOCKEY CLUB Centre for Suicide Research and Prevention THE UNIVERSITY OF HONG KONG

THANK YOU !