Table 5. Multiple regression models for predicting SPBC (70)

Model 1

$$(1)\ Y_1 = -\ 50.959 + 2.450\text{E-5 } X_1 + 9.692\ X_2 + 1.268\ X_3 + 0.327\ X_4 + En$$

$$R^2 = 0.422,\quad \text{F-Value} = 4.933,\quad P = 0.004$$

Model 2

$$(2)\ Y_2 = -\ 30.612 + 0.00001\ X_1 + 1.984\ X_2 + 0.586\ X_3 + 0.412\ X_4 + En$$

$$R^2 = 0.303,\quad \text{F-Value} = 2.939,\quad P = 0.039$$

Model 3

$$(3)\ Y_3 = -\ 89.981 + 0.00001\ X_1 + 15.034\ X_2 + 1.974\ X_3 + 0.512\ X_4 + En$$

$$R^2 = 0.439,\quad \text{F-Value} = 5.278,\quad P = 0.0031$$

Model 1, 2, 3:

 : Economic level (+) Health expenditure (+) Using fixed and mobile telephone (+) Sanitation

Y_1 = SPBC (70) MF
Y_2 = SPBC (70) M
Y_3 = SPBC (70) F

X_1 = GNI
X_2 = PEHGDP
X_3 = FMTS
X_4 = ISF

SPBC (70): Survival probability of becoming a centenarian for those aged 70 (per 10,000)
MF: Females and Males, M: Males, F: Females
GNI: Gross National Income per capita (constant 2005 international $) (1990-2010)
PEHGDP: Public expenditure on health as a percentage of GDP (% of GDP) (2000-2010)
FMTS: Fixed and mobile telephone subscribers (per 100 people) (1980-1990)
ISF: Proportion of the population using improved sanitation facilities (%), urban (2005-2010)