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

Model 1

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

\[ R^2 = 0.422, \quad F-Value = 4.933, \quad P = 0.004 \]

Model 2

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

\[ R^2 = 0.303, \quad F-Value = 2.939, \quad P = 0.039 \]

Model 3

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

\[ R^2 = 0.439, \quad F-Value = 5.278, \quad P = 0.0031 \]

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
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)