**eTable4 Multivariate linear regression models in two regions.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Region** | **Independent variable** | **Unstandardized coefficient** | **Standardized coefficient** | **95% CI for β** | **t** | **P value** | **Collinearity statistics** |
|  |  | **β** | **S. E** | **S. β** | **Lower** | **Upper** |  |  | **Tolerance** | **VIF** |
| ***Level1*** |  |  |  |  |  |  |  |  |  |  |
| **Shanghai** | **Gender(reference=Male)** | -0.040 | 0.033  | -0.020 | -0.105 | 0.025  | -1.216 | 0.224  | 0.906  | 1.103  |
|  | **Age(years)** | 0.017  | 0.017  | 0.019  | -0.015 | 0.050  | 1.043  | 0.297  | 0.711  | 1.407  |
|  | **BMI(kg/cm2)** | -0.008 | 0.004  | -0.032 | -0.016 | -0.000 | -2.011 | 0.044\*  | 0.908  | 1.101  |
| **Gansu** | **Gender(reference=Male)** | 0.242  | 0.045  | 0.116  | 0.154  | 0.330  | 5.398  | 0.000\*\*  | 0.851  | 1.176  |
|  | **Age(years)** | -0.089 | 0.023  | -0.081 | -0.134 | -0.043 | -3.815 | 0.000\*\*  | 0.867  | 1.153  |
|  | **BMI(kg/cm2)** | 0.012 | 0.007  | -0.037 | -0.025 | 0.001  | -1.842 | 0.066  | 0.992  | 1.009  |
| ***Level2*** |  |  |  |  |  |  |  |  |  |  |
| **Shanghai** | **Gender(reference=Male)** | -0.040 | 0.044  | -0.014 | -0.127 | 0.047  | -0.894 | 0.372  | 0.906  | 1.103  |
|  | **Age(years)** | 0.053  | 0.022  | 0.043  | 0.009  | 0.096  | 2.370  | 0.018\*  | 0.711  | 1.407  |
|  | **BMI(kg/cm2)** | -0.022 | 0.005  | -0.064 | -0.032 | -0.011 | -4.018 | 0.000\*\*  | 0.908  | 1.101  |
| **Gansu** | **Gender(reference=Male)** | 0.015  | 0.059  | 0.005  | -0.101 | 0.130  | 0.250  | 0.802  | 0.851  | 1.176  |
|  | **Age(years)** | -0.072 | 0.030  | -0.050 | -0.132 | -0.012 | -2.367 | 0.018\*  | 0.867  | 1.153  |
|  | **BMI(kg/cm2)** | -0.019 | 0.009  | -0.043 | -0.036 | -0.002 | -2.138 | 0.033\*  | 0.992  | 1.009  |
| ***Level3*** |  |  |  |  |  |  |  |  |  |  |
| **Shanghai** | **Gender(reference=Male)** | 0.048  | 0.048  | 0.016  | -0.047 | 0.143  | 0.995  | 0.320  | 0.906  | 1.103  |
|  | **Age(years)** | 0.040  | 0.024  | 0.030  | -0.008 | 0.087  | 1.634  | 0.102  | 0.711  | 1.407  |
|  | **BMI(kg/cm2)** | -0.038 | 0.006  | -0.104 | -0.050 | -0.027 | -6.474 | 0.000\*\*  | 0.908  | 1.101  |
| **Gansu** | **Gender(reference=Male)** | 0.116  | 0.062  | 0.040  | -0.005 | 0.237  | 1.874  | 0.061  | 0.851  | 1.176  |
|  | **Age(years)** | -0.103 | 0.032  | -0.069 | -0.165 | -0.040 | -3.213 | 0.001\*\*  | 0.867  | 1.153  |
|  | **BMI(kg/cm2)** | -0.015 | 0.009  | -0.033 | -0.033 | 0.003  | -1.656 | 0.098  | 0.992  | 1.009  |
| ***Max*** |  |  |  |  |  |  |  |  |  |  |
| **Shanghai** | **Gender(reference=Male)** | 0.057  | 0.046  | 0.020  | -0.033 | 0.147  | 1.237  | 0.216  | 0.906  | 1.103  |
|  | **Age(years)** | 0.066  | 0.023  | 0.052  | 0.021  | 0.111  | 2.869  | 0.004\*\*  | 0.711  | 1.407  |
|  | **BMI(kg/cm2)** | -0.039 | 0.006  | -0.110 | -0.049 | -0.028 | -6.881 | 0.000\*\*  | 0.908  | 1.101  |
| **Gansu** | **Gender(reference=Male)** | 0.137  | 0.062  | 0.048  | 0.016  | 0.258  | 2.218  | 0.027\*  | 0.851  | 1.176  |
|  | **Age(years)** | -0.096 | 0.032  | -0.064 | -0.158 | -0.033 | -3.000 | 0.003\*\*  | 0.867  | 1.153  |
|  | **BMI(kg/cm2)** | -0.031 | 0.009  | -0.068 | -0.049 | -0.013 | -3.411 | 0.001\*\*  | 0.992  | 1.009  |

**Note: BMI: Body Mass Index; VIF: Variance Inflation Factor; CI: Confidence Interval. \* *p*＜0.05, \*\* *p*＜0.01.**