**Table S1. Correlation between vitamin D and covariates**

|  |  |  |
| --- | --- | --- |
|  | **Correlation coefficient (*r*)** | ***p*** |
| Diabetes | -0.08 | <0.001 |
| Hypertension | -0.07 | <0.001 |
| Dyslipidemia | -0.04 | <0.001 |
| BMI | -0.21 | <0.001 |
| Waist to hip ratio | -0.04 | <0.001 |
| Waist circumference | -0.16 | <0.001 |
| HOMA-IR | -0.10 | <0.001 |
| HbA1c | -0.13 | <0.001 |
| Leptin | -0.24 | <0.001 |
| IGF-1 | 0.14 | <0.001 |