**S1Table. Association of HOMA-IR index with hot flash status and adipocyte-derived hormones without adjustment for hot flash status, follicle stimulating hormone, body mass index, age, and menopause duration**

|  |  |
| --- | --- |
| **Variable** | **HOMA-IR index** |
|  | **Model 1** | **Model 2** | **Model 3** | **Model 4** |
| Hot flashes |  |  |  |  |
| None |  |  |  |  |
| Mild to moderate | 10.83(-8.58,34.36) | 3.2(-13.93,23.73) | 0.31(-15.91,19.67) | 0.62(-15.4,19.68) |
| Severe | 58.03(31.00,90.64)**c** | 29.59(6.95,57.02)b | 18.13(-2.68,43.38) | 19.28(-1.59,44.56) |
| Leptin |  | 2.97(1.77,4.19)c | 2.65(1.47,3.84)c | 2.65(1.49,3.82)c |
| Adiponetin-1 |  |  | 23.74(9.05,40.4)b | 23.85(9.4,40.21)b |
| Resistin |  |  |  | 0.33(-0.62,1.29) |

Data are expressed as the percentage difference (95% CI). HOMA-IR index was log-transformed.

Regression coefficients are back-transformed using formula (100\*(exp(β)-1)) to calculate the percentage difference and the 95% CI in HOMA-IR index for hot flash group relative to non-hot flash group.

Model 1: univariate linear regression model for HOMA-IR index; Model 2: adjusted for hot flashes and Leptin; Model 3: adjusted for Model 2 plus adiponetin-1; Model 4: adjusted for Model 3 plus resistin.

b *p* < .01; c *p* < .001.