**Table S9 Moderating effect of magnesium intake on the relationship between *Comamonas* and IL-8 level**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | | **Controlling effect** | | | | | **Main effect** | | **Interaction effect** |
| **Age** | **BMI** | **FBG** | **MS** | **UGLU** | ***Comamonas*** | **Magnesium** | ***Comamonas* × Magnesium** |
| Step 1 | β | 0.28 | 0.05 | -0.17 | -0.09 | 0.09 |  |  |  |
| t | 2.18 | 0.43 | -1.28 | -0.69 | 0.70 |  |  |  |
| p | 0.03 | 0.67 | 0.21 | 0.49 | 0.46 |  |  |  |
| ΔF |  |  | 1.94 |  |  |  |  |  |
| ΔR2 |  |  | 0.13 |  |  |  |  |  |
|  | p |  |  | 0.10 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Step 2 | β | 0.26 | 0.05 | -0.14 | -0.06 | 0.11 | 0.22 | 0.15 |  |
| t | 2.12 | 0.46 | -1.07 | -0.44 | 0.87 | 1.86 | 1.22 |  |
| p | 0.04 | 0.65 | 0.29 | 0.66 | 0.39 | 0.07 | 0.22 |  |
| ΔF |  |  |  |  |  | 3.46 |  |  |
| ΔR2 |  |  |  |  |  | 0.09 |  |  |
|  | p |  |  |  |  |  | 0.04 |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Step 3 | β | 0.23 | 0.00 | -0.22 | -0.09 | 0.11 | -0.44 | 0.14 | 0.73 |
| t | 1.92 | 0.04 | -1.77 | -0.75 | 0.91 | -1.76 | 1.26 | 2.99 |
| p | 0.06 | 0.97 | 0.08 | 0.46 | 0.36 | 0.08 | 0.21 | 0.00 |
| ΔF |  |  |  |  |  |  |  | 8.92 |
| ΔR2 |  |  |  |  |  |  |  | 0.10 |
|  | p |  |  |  |  |  |  |  | 0.00 |

Abbreviations: FBG: fasting blood glucose; UGLU: urine glucose level; MS: menstrual status; BMI: body mass index