**Table 4.** Spearmen correlations between BMI, Body Fat Mass (BMF) (%), conicity index and other anthropometrical and biochemistry parameters in all, boys and girls adolescents.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | BMI | BMF | TF | BP | WC | Insulin | HOMA-IR | QUICKI | Leptin | Leptin/adiponectin |
| BMI (All) |  | 0.555*P* < 0.001 | 0.489*P* < 0.001 | 0.712*P* < 0.001 | 0.476*P* < 0.001 | 0.290*P* = 0.035 | 0.324*P* = 0.018 | -0.329*P* = 0.016 | 0.288*P* = 0.036 |  |
| BMI (Boys) |  | 0.467*P* = 0.028 |  | 0.649*P* < 0.001 | 0.466*P* = 0.038 |  |  |  |  |  |
| BMI (Girls) |  | 0.571*P* < 0.001 | 0.535*P* = 0.002 | 0.727*P* < 0.001 | 0.462*P* = 0.009 | 0.420*P* = 0.019 | 0.458*P* = 0.010 | -0.461*P* = 0.009 |  |  |
|  |  | BMI | TF | BP | WC | Insulin | HOMA-IR | QUICKI | Leptin | Leptin/adiponectin |
| BFM (All) | 0.555*P* < 0.001 |  | 0.800*P* < 0.001 | 0.498*P* < 0.001 |  | 0.408*P* = 0.002 | 0.403*P* = 0.003 | -0.413*P* = 0.003 | 0.701*P* < 0.001 | 0.650*P* < 0.001 |
| BFM (Boys) | 0.467*P* = 0.028 |  | 0.798*P* < 0.001 |  |  |  |  |  | 0.730*P* < 0.001 | 0.730*P* < 0.001 |
| BFM (Girls) | 0.571*P* < 0.001 |  | 0.775*P* < 0.001 | 0.603*P* < 0.001 |  |  |  |  | 0.771*P* < 0.001 | 0.687*P* < 0.001 |
|  | BMI | BMF | TF | BP | WC | Insulin | HOMA-IR | QUICKI | Leptin | Leptin/adiponectin |
| CI (All) |  |  |  |  | 0.734*P* < 0.001 |  |  |  |  |  |
| CI (Boys) |  |  |  |  | 0.809*P* < 0.001 |  |  |  |  |  |
| CI (Girls) |  |  |  |  | 0.689*P* < 0.001 |  |  |  |  |  |

Only significant correlations were shown. P

BMI, Body mass index; BMF, Body fat mass; BP, Brachial perimeter; CI, Conicity index; HOMA-IR, Homeostatic model assessment- Insulin resistance; QUICKI, Quantitative Insulin Sensitivity Check Index; TF, Tricipital fold; WC, waist circuference