**Supplementary Table 1 Questionnaire data among groups by treatment.**

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| --- | --- | --- | --- |
| 　 | **Metformin** **(N= 19)** | **Placebo** **(N= 21)** | **P value** |
| **SDQ** |  |  |  |
| **Total score** | 9.16 (6.39) | 10.00 (5.17) | 0.65 |
| **Emotion** | 2.28 (2.54) | 2.05 (2.01) | 0.75 |
| **Conduct** | 1.78 (1.48) | 2.29 (1.55) | 0.30 |
| **Hyper** | 4.23 (2.60) | 4.1 (2.39) | 0.87 |
| **Peer** | 1.39 (1.38) | 1.58 (1.33) | 0.68 |
| **Prosocial** | 8.28 (2.44) | 8.52 (1.36) | 0.69 |
| **Internalising** | 6.00 (3.80) | 6.38 (3.44) | 0.74 |
| **Externalising** | 3.72 (3.54) | 3.67 (2.83) | 0.96 |
| **CDQ** |  |  |  |
| **Fruit and vegetable** | 12.01 (4.73) | 11.21 (5.29) | 0.62 |
| **Fat from dairy** | 4.47 (2.22) | 5.05 (2.94) | 0.49 |
| **Sweetened beverages** | 2.37 (1.80) | 1.8 (1.44) | 0.27 |
| **Non-score Food** | 3.04 (1.66) | 3.11 (1.49) | 0.89 |
| **FEAHQ** |  |  |  |
| **Activity level**† |  |  |  |
| **Child** | 1.04 (7.37) | 2.89 (7.75) | 0.47 |
| **Mother** | 6.24 (7.59) | 5.21 (10.80) | 0.75 |
| **Father** | 10.23 (9.55) | 10.46 (8.90) | 0.95 |
| **Stimulus exposure** | 10.67 (2.79) | 10.57 (3.11) | 0.92 |
| **Eating related to hunger** | 4.22 (1.90) | 4.76 (2.00) | 0.39 |
| **Eating style**† |  |  |  |
| **Child** | 17.67 (5.17) | 16.38 (4.83) | 0.43 |
| **Mother** | 20.59 (6.46) | 20.62 (6.61) | 0.99 |
| **Father** | 22.5 (6.60) | 23.33 (7.57) | 0.77 |

All tests are from T-test or Kruskall-Wallis test; Apart from † P value from Chi square