**Table S1:** Characteristics of the metabolomic study cohort subjects according to post-partum depression (PPD) status, Rhea mother-child cohort, Crete, Greece

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Post-partum depression |  |
|  | OverallN=20 | NoN=10 | YesN=10 |  |
|  | N (%) or Mean ± SD | N (%) or Mean ± SD | N (%) or Mean ± SD | p-value\* |
| Maternal age (years) | 29.1 ± 3.8 | 30.7 ± 3.5 | 27.6 ± 3.7 | 0.067 |
| BMI pre pregnancy (kg/m2) | 23.2 ± 3.5 | 22.8 ± 2.6 | 23.5 ± 4.3 | 0.695 |
| BMI at interview time (kg/m2) | 22.9 ± 3.4 | 22.7 ± 2.5 | 23.1 ± 4.3 | 0.798 |
| Marital status |  |  |  | 0.474 |
|  Married | 16 (80.0) | 8 (80.0) | 8 (80.0) |  |
|  Engaged | 2 (10.0) | 2 (20.0) | 0 (0.0) |  |
|  Single | 1 (5.0) | 0 (0.0) | 1 (10.0) |  |
|  NAV | 1 (5.0) | 0 (0.0) | 1 (10.0) |  |
| Working during pregnancy |  |  |  | 0.179 |
|  No | 10 (50.0) | 3 (30.0) | 7 (70.0) |  |
|  Yes | 10 (50.0) | 7 (70.0) | 3 (30.0) |  |
| Maternal education |  |  |  | 0.809 |
|  Low | 2 (10.0) | 1 (10.0) | 1 (10.0) |  |
|  Medium | 10 (50.0) | 4 (40.0) | 6 (60.0) |  |
|  High | 8 (40.0) | 5 (50.0) | 3 (30.0) |  |
| Paternal education |  |  |  | 0.820 |
|  Low | 4 (20.0) | 2 (20.0) | 2 (20.0) |  |
|  Medium | 11 (55.0) | 5 (50.0) | 6 (60.0) |  |
|  High | 4 (20.0) | 3 (30.0) | 1 (10.0) |  |
|  NAV | 1 (5.0) | 0 (0.0) | 1 (10.0) |  |
| Planned pregnancy |  |  |  | 0.020 |
|  Yes | 12 (60.0) | 9 (90.0) | 3 (30.0) |  |
|  No | 8 (40.0) | 1 (10.0) | 7 (70.0) |  |
| Prenatal control |  |  |  | 0.474 |
|  No | 2 (10.0) | 0 (0.0) | 2 (20.0) |  |
|  Yes | 18 (90.0) | 10 (100.0) | 8 (80.0) |  |
| Hospitalization during pregnancy |  |  |  | 1.000 |
|  No | 17 (85.0) | 8 (80.0) | 9 (90.0) |  |
|  Yes | 1 (5.0) | 1 (10.0) | 0 (0.0) |  |
|  NAV | 2 (10.0) | 1 (10.0) | 1 (10.0) |  |
| Previous pregnancy |  |  |  | 0.656 |
|  No | 10 (50.0) | 4 (40.0) | 6 (60.0) |  |
|  Yes | 10 (50.0) | 6 (60.0) | 4 (40.0) |  |
| PPD in previous pregnancy |  |  |  | 1.000 |
|  No | 6 (30.0) | 3 (30.0) | 3 (30.0) |  |
|  Yes | 1 (5.0) | 0 (0.0) | 1 (10.0) |  |
|  NAV | 3 (15.0) | 3 (30.0) | 0 (0.0) |  |
|  NAP | 10 (50.0) | 4 (40.0) | 6 (60.0) |  |
| History of dyslipidemia |  |  |  | 0.474 |
|  No | 18 (90.0) | 10 (100.0) | 8 (80.0) |  |
|  Yes | 2 (10.0) | 0 (0.0) | 2 (20.0) |  |
| History of thyroid disease |  |  |  | 0.211 |
|  No | 17 (85.0) | 7 (70.0) | 10 (100.0) |  |
|  Yes | 3 (15.0) | 3 (30.0) | 0 (0.0) |  |
| Exposure to second hand smoke during pregnancy |  |  |  | 0.370 |
|  No | 11 (55.0) | 7 (70.0) | 4 (40.0) |  |
|  Yes | 9 (45.0) | 3 (30.0) | 6 (60.0) |  |

\*Chi-square (Fisher's exact test) for categorical variables; t-test for continuous variables