**Cardio-metabolic disorders in first and second offspring**

**t tests -** Means: Difference between two independent means (two groups)

**Analysis:** Post hoc: Compute achieved power

**Input:** Tail(s) = Two

 α err prob = 0.05

**G0C x G0H**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Adiposity index | -3.5109 | 5 | 4 | 6.663 | 7 | 1.0 |
| Leptin | -1.7375 | 5 | 5 | 3.035 | 8 | 0.86 |
| Fasting glucose | -1.7368 | 5 | 5 | 3.598 | 8 | 0.95 |
| HOMA-IR | -2.7236 | 5 | 5 | 5.467  | 8 | 1.0 |
| HOMA-β | 2.0694 | 4 | 5 | 3.240  | 7 | 0.94 |
| Triglycerides | -1.8348 | 4 | 4 | 3.146  | 6 | 0.88 |
| MAP | -7.4696 | 6 | 5 | 15.04 | 9 | 1.0 |
| Δ MAP  | 3.1749 | 6 | 7 | 5.873  | 11 | 1.0 |

**G1C x G1H**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Leptin | -3.7768 | 3 | 3 | 4.898  | 4 | 1.0 |
| Fasting glucose | -2.0364 | 5 | 5 | 4.272 | 8 | 0.99 |
| HOMA-IR | -1.8628 | 3 | 3 | 3.198 | 4 | 0.89 |
| Total cholesterol | -0.9555 | 7 | 6 | 2.225 | 11 | 0.64 |
| Triglycerides | -3.1908 | 5 | 5 | 6.546 | 8 | 1.0 |
| MAP | -8.7666 | 5 | *5* | 14.84 | 8 | 1.0 |
| Δ MAP | 1.9835 | 6 | *7* | 3.789 | 9 | 0.98 |

**F1CF x F1HF**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Caloric intake | -3.1152 | 9 | 11 | 7.788 | 18 | 1.0 |
| Adiposity index | -1.9177 | 7 | 5 |  4.168 | 10 | 0.98 |
| Leptin | -1.2878 | 6 | 6 | 3.091 | 10 | 0.99 |
| Fasting glucose | -2.5248 | 8 | 7 | 5.934 | 13 | 1.0 |
| Insulin | -1.0411 | 11 | 11 | 2.315 | 12 | 0.64 |
| HOMA-IR | -1.8696 | 8 | 8 | 4.030 | 13 | 0.97 |
| HOMA-β | 1.5102 | 4 | 5 | 2.431 | 7 | 0.74 |
| Total cholesterol | -1.7583 | 8 | 7 | 4.048 | 13 | 0.98 |
| Triglycerides | -2.5014 | 8 | 7 | 6.220 | 13 | 1.0 |
| MAP | -1.7975 | 9 | 13 | 4.490 | 20 | 1.0 |
| Δ MAP | 1.3896 | 8 | 9 | 3.325 | 15 | 0.92 |

**F1CM x F1HM**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Caloric intake | -2.0959 | 9 | 11 | 4.908 | 18 | 1.0 |
| Adiposity index | -1.8175 | 10 | 12 | 4.511 | 20 | 1.0 |
| Leptin | -1.8944 | 8 | 7 | 2.501 | 13 | 0.70 |
| Fasting glucose | -1.8281 | 8 | 7 | 4.622 | 13 | 1.0 |
| Insulin | -1.0063 | 11 | 11 | 2.424 | 20 | 0.68 |
| HOMA-IR | -1.1424 | 8 | 8 | 2.882 | 14 | 0.82 |
| HOMA-β | 0.8659 | 7 | 6 | 2.089 | 11 | 0.62 |
| Triglycerides | -2.5311 | 8 | 8 | 6.491 | 14 | 1.0 |
| MAP | -1.3971 | 9 | 13 | 3.607 | 20 | 0.97 |
| Δ MAP | 3.4964 | 6 | 10 | 7.128 | 14 | 1.0 |

**F2CF x F2HF**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Caloric intake | -1.5311 | 9 | 11 | 4.154  | 18 | 0.99 |
| Adiposity index | -2.6145 | 5 | 4 | 8.788  | 25 | 1.0 |
| Leptin | -03452 | 9 | 8 | 2.471  | 15 | 0.67 |
| Fasting glucose | -1.7617 | 8 | 8 | 3.550  | 14 | 0.94 |
| Insulin | -1.0896 | 8 | 6 | 2.224  | 12 | 0.48 |
| HOMA-IR | -1.5419 | 5 | 4 | 2.930  | 11 | 0.66 |
| HOMA-β | 1.4809 | 8 | 8 | 2.438  | 10 | 0.98 |
| Total cholesterol | -1.9662 | 8 | 8 | 1.161  | 30 | 1.0 |
| Triglycerides | -2.1344 | 8 | 8 | 4.651  | 14 | 1.0 |
| MAP | -3.6021 | 7 | 5 | 7.154  | 10 | 1.0 |
| Δ MAP | 4.6203 | 8 | 5 | 9.844  | 11 | 1.0 |

**F2CM x F2HM**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | **Input** | **Output** | **T-test power** |
| Effect size d | Sample size group 1 | Sample size group 2 | Critical t | Df |
| Caloric intake | -2.5736 | 9 | 11 | 5.991 | 18 | 1.0 |
| Adiposity index | -13.5387 | 11 | 12 | 38.58 | 21 | 1.0 |
| Leptin | -1.0931 | 9 | 9 | 5.167 | 16 | 1.0 |
| Fasting glucose | -2.5627 | 8 | 8 | 6.800 | 14 | 1.0 |
| Insulin | -1.0946 | 8 | 8 | 2.366 | 14 | 0.66 |
| HOMA-IR | -1.6062 | 6 | 7 | 2.930 | 11 | 0.88 |
| HOMA-β | 1.4492 | 5 | 7 | 2.438 | 10 | 0.80 |
| Total cholesterol | -1.4820 | 8 | 8 | 4.163 | 14 | 0.98 |
| Triglycerides | -3.0419 | 8 | 8 | 6.279 | 14 | 1.0 |
| MAP | -3.1113 | 10 | 8 | 8.556 | 16 | 1.0 |
| Δ MAP | 4.7945 | 9 | 7 | 11.66 | 14 | 1.0 |