**S1 Table. Biomarker concentrations of pregnant women during baseline, post-supplementation during pregnancy, post-supplementation at post-partum, and in children**

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| --- | --- | --- | --- | --- |
| Biomarker | Baseline(n=44) | Post-supplementation during pregnancy (n=18) | Post-supplementation at post-partum (N=26) | Children(n=44) |
| IFA (n=22) | MMN(n=22) | p-value | IFA (n=9) | MMN(n=9) | p-value | IFA (n=13) | MMN(n=13) | p-value | IFA(n=22) | MMN(n=22) | p-value |
| VDBP (µg/mL) | 46.6(29.2 - 72.1) | 58.0 (36.0 - 90.5) | 0.203 | 25.9 (18.6 - 37.5) | 40.1 (33.6 - 53.2) | 0.171 | 74.6 (29.3 - 110.6) | 37.8 (29.7 - 44.9) | 0.264 | 18.3 (12.8 - 24.2) | 19.9 (17.3 - 24.7) | 0.302 |
| Adiponectin (µg/mL) | 2.8 ± 1.2 | 3.4 ± 1.4 | 0.121† | 2.3 (2.0 - 2.5) | 2.8 (2.6 - 3.2) | 0.113 | 3.4 (2.1 - 4.3) | 3.2 (2.4 - 3.8) | 0.724 | 5.5 ± 1.4 | 6.0 ± 2.2 | 0.435† |
| RBP4 (µg/mL) | 25.5 (22.8 - 35.2) | 32.8 (21.7 - 37.2) | 0.357 | 17.2 (14.1 - 20.7) | 29.7 (18.3 - 36.3) | 0.136 | 40.3 ± 17.4 | 38.9 ± 10.3 | 0.804† | 25.2 (20.0 - 29.2) | 23.5 (18.9 - 27.6) | 0.825 |
| CRP (µg/mL) | 1.9 (1.2 - 3.0) | 2.1 (0.4 - 3.7) | 0.807 | 1.3 (0.4 - 1.5) | 1.2 (1.0 - 2.4) | 0.730 | 0.9 (0.4 - 1.2) | 0.2 (0.1 - 0.9) | 0.153 | 0.2 (0.1 - 0.7) | 0.2 (0.1 - 0.4) | 0.370 |
| Leptin (ng/mL) | 8.7 (4.8 - 12.5) | 7.6 (5.9 - 14.6) | 0.719 | 16.4 (7.6 - 19.0) | 12.2 (10.7 - 24.9) | 0.796 | 4.8 (1.9 - 5.9) | 3.2 (2.2 - 4.4) | 0.687 | 3.6 (2.3 - 5.0) | 3.0 (2.5 - 6.1) | 0.935 |

Normally distributed variables were presented as mean (±standard deviation). Non-normally distributed variables were presented as median (interquartile range). VDBP: vitamin D binding protein; RBP4: retinol binding protein 4; CRP: C-reactive protein. Significant *p* values <0.05. †Normal distributed variables were compared using Student T-Test.