## Maternal Biomarkers

|  | At Enrollment |
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| Outcome | Median (25th, 75th percentile) |
| Vitamin D1 | 42.11 (32.55, 55.06) |
| Ferritin | 26.95 (14.46, 53.8) |
| sTfR | 4.34 (3.69, 5.53) |
| RBP | 1.24 (1.02, 1.52) |
| Vitamin A Deficiency | 12 (2%) |
| Low Vitamin A | 110 (19%) |
| Vitamin D Deficiency | 109 (19%) |
| Iron Deficiency | 136 (23%) |
| Cortisol2 | 18.88 (12.37, 26.18) |
| Estriol | 3.85 (2.04, 5.56) |
| IL-1 (pg/ml) | 1.11 (0.72, 1.67) |
| Il-6 (pg/ml)3 | 2.29 (1.26, 3.55) |
| TNF-a (pg/ml) | 3.7 (2.94, 4.55) |
| IL-12 (pg/ml) | 2.72 (1.95, 3.66) |
| IFN-g (pg/ml) | 7.27 (5.21, 10.05) |
| IL-4 (pg/ml) | 52.99 (35.65, 72.36) |
| IL-5 (pg/ml) | 1.43 (1.03, 1.99) |
| IL-13 (pg/ml) | 6.14 (3.46, 9.6) |
| IL-17A (pg/ml)3 | 4.79 (3.53, 6.46) |
| IL-21 (pg/ml) | 1.71 (0.98, 2.77) |
| IL-10 (pg/ml)3 | 6.73 (3.92, 11.21) |
| IL-2 (pg/ml) | 1.04 (0.5, 1.71) |
| GM-CSF (pg/ml) | 44.36 (25.48, 70.96) |
| AGP (g/L)4 | 0.44 (0.33, 0.57) |
| CRP (mg/L)4 | 1.94 (0.91, 4.05) |

1. Recommended vitamin D serum levels during pregnancy range from 50 to 75 nmol/L.1

2. During the first trimester of pregnancy, serum cortisol levels are expected to be 7 to 19 μg/dL, and 10 to 42 μg/dL during the second trimester.2

3. A healthy population less than 45 years of age with no prior history of hypertension, diabetes, cardiovascular disease, cancer, or chronic inflammation had the following serum cytokine measurements in pg/mL: IL-6 (mean 2.91 ± standard deviation 6.45), IL-17 (6.53 ± 7.42), and IL-10 (1.32 ± 3.06).3

4. Reference ranges for AGP and CRP are as follows: 0.4 to 1.0 g/L in 5 to 50-year-old women and 0 to 5 mg/L in all people respectively.4, 5

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