|  |  |  |
| --- | --- | --- |
| **Appendix Table 2: Estimated cytokine levels in the PBMC for Implant users, adjusting for repeated measures** |  |  |
|  | **Pre-Contraceptive** | **Post-Contraceptive** | **Arithmetic Mean Ratio Post:Pre** |  |
| **Cytokine** | **Estimate\*** | **95% CI LB\*** | **95% CI UB\*** | **Estimate\*** | **95% CI LB\*** | **95% CI UB\*** | **AMR** | **95% CI LB** | **95% CI UB** |  |
| INFa2 | 851.58 | 547.78 | 1323.87 | 784.05 | 502.29 | 1223.86 | 0.92 | 0.79 | 1.07 |  |
| INFg | 542.65 | 285.22 | 1032.44 | 505.49 | 264.48 | 966.12 | 0.93 | 0.77 | 1.12 |  |  |
| IL2 | 22.72 | 10.01 | 51.58 | 28.16 | 12.26 | 64.67 | 1.24 | 0.88 | 1.74 |  |  |
| IL4 | 747.65 | 432.64 | 1292.02 | 638.64 | 368.05 | 1108.15 | 0.85 | 0.72 | 1.01 |  |  |
| IL6 | 43.76 | 15.40 | 124.32 | 42.20 | 14.79 | 120.42 | 0.96 | 0.76 | 1.22 |  |  |
| IL12p70 | 122.98 | 67.41 | 224.35 | 106.84 | 58.20 | 196.13 | 0.87 | 0.70 | 1.08 |  |  |
| IL17 | 64.77 | 32.66 | 128.47 | 63.87 | 32.08 | 127.19 | 0.99 | 0.82 | 1.18 |  |  |
| IL1a | 16.30 | 4.70 | 56.55 | 16.23 | 4.65 | 56.59 | 1.00 | 0.76 | 1.31 |  |  |
| IL1b | 29.46 | 17.48 | 49.63 | 27.14 | 16.01 | 45.99 | 0.92 | 0.76 | 1.12 |  |  |
| GCSF | 558.84 | 356.79 | 875.32 | 466.80 | 296.78 | 734.21 | 0.84 | 0.72 | 0.97 |  |  |
| GMCSF | 249.73 | 142.66 | 437.16 | 222.29 | 126.43 | 390.85 | 0.89 | 0.75 | 1.06 |  |  |
| TNFa | 152.55 | 102.35 | 227.35 | 143.60 | 95.92 | 214.99 | 0.94 | 0.81 | 1.09 |  |  |
| sCD40L | 5358.60 | 4080.78 | 7036.55 | 4986.68 | 3779.74 | 6579.02 | 0.93 | 0.82 | 1.06 |  |  |
| MIP1a | 6.93 | 2.38 | 20.23 | 5.92 | 2.02 | 17.35 | 0.85 | 0.67 | 1.09 |  |  |
| MIP1b | 421.69 | 273.53 | 650.10 | 381.31 | 246.47 | 589.90 | 0.90 | 0.79 | 1.04 |  |  |
| IL8 | 2.16 | 0.98 | 4.77 | 2.00 | 0.89 | 4.47 | 0.93 | 0.65 | 1.32 |  |  |
| IP10 | 3496.65 | 2278.88 | 5365.16 | 3249.00 | 2113.09 | 4995.54 | 0.93 | 0.84 | 1.03 |  |  |
| Fractalkine | 174.59 | 76.89 | 396.43 | 160.19 | 70.42 | 364.36 | 0.92 | 0.80 | 1.05 |  |  |
| Generalized linear mixed model with random intercept for participant, variance components covariance strutcure, gamma distribution, log link |
| \* Back-transformed estimate (arithmetic mean) |  |  |  |  |  |  |  |  |