**Supplementary Material**

| **Supplemental Table 1: Estimated Prevalence of Infant and Maternal Iron Deficiency by Inflammation Adjustment Approach and by Iron Biomarker and Age / Time Postpartum, in infants and mothers with available data** |
| --- |
|  | **Infants** |  | **Mothers** |
|  | **1st blood draw** | **2nd blood draw** | **3rd blood draw** |  | **1st blood draw** | **2nd blood draw** |
| **Ferritin (< 12 µg/L\* or < 15 µg/L\*\*)** |
| Uncorrected | 0.6 | 42.5 | 65.6 |  | 20.6 | 17.5 |
| Exclusion | 0.6 | 46.8 | 70.7 |  | 24.2 | 17.4 |
| CF1 - Internal | 0.6 | 45.0 | 72.5 |  | 28.8 | 19.4 |
| CF - Meta Analysis | 0.6 | 43.1 | 70.0 |  | 27.5 | 20.0 |
| CF - Meta Analysis (population-specific) | 0.6 | 43.1 | 71.2 |  | 26.9 | 19.4 |
| Lin. Reg.2 - Mean | 0.6 | 43.8 | 71.2 |  | 27.5 | 19.4 |
| Lin. Reg. - Mean, w/ interaction | 0.6 | 46.9 | 78.8 |  | 28.1 | 21.9 |
| Lin. Reg. - Median | 0.6 | 46.2 | 71.2 |  | 26.9 | 20.6 |
| Lin. Reg. - Median, w/ interaction | 0.6 | 47.5 | 78.1 |  | 28.1 | 21.2 |
| Lin. Reg. - 1st Decile | 0.6 | 53.8 | 79.4 |  | 34.4 | 26.9 |
| Lin. Reg. - 1st Decile, w/ interaction | 0.6 | 58.1 | 89.4 |  | 38.1 | 28.8 |
| Lin. Reg. - Minimum | 0.6 | 71.2 | 92.5 |  | 47.5 | 43.1 |
| Lin. Reg. - Minimum, w/ interaction | 0.0 | 81.9 | 96.9 |  | 66.9 | 58.1 |
| Lin. Reg. - External 1st Decile | 0.6 | 46.2 | 82.5 |  | 43.1 | 23.8 |
| Lin. Reg. - External 1st Decile, w/ interaction | 0.6 | 47.5 | 84.4 |  | 50.0 | 27.5 |
| **STFR (> 8.3 mg/L)** |
| Uncorrected | 0.6 | 9.4 | 25.0 |  | 7.5 | 1.9 |
| Exclusion | 0.6 | 7.9 | 24.1 |  | 7.1 | 2.3 |
| CF - Internal | 0.6 | 8.8 | 24.4 |  | 8.8 | 1.9 |
| CF - Meta Analysis | N/A | N/A | N/A |  | N/A | N/A |
| CF - Meta Analysis of Infants / Women | N/A | N/A | N/A |  | N/A | N/A |
| Lin. Reg. - Mean | 0.6 | 8.8 | 25.6 |  | 7.5 | 1.9 |
| Lin. Reg. - Mean, w/ interaction | 0.6 | 9.4 | 34.4 |  | 7.5 | 1.9 |
| Lin. Reg. - Median | 0.6 | 8.8 | 26.2 |  | 7.5 | 1.9 |
| Lin. Reg. - Median, w/ interaction | 0.6 | 9.4 | 34.4 |  | 7.5 | 1.9 |
| Lin. Reg. - 1st Decile | 0.6 | 8.1 | 26.9 |  | 8.8 | 1.9 |
| Lin. Reg. - 1st Decile, w/ interaction | 0.6 | 8.8 | 36.9 |  | 10.6 | 2.5 |
| Lin. Reg. - Minimum | 0.6 | 7.5 | 38.8 |  | 5.0 | 1.2 |
| Lin. Reg. - Minimum, w/ interaction | 0.6 | 8.8 | 64.4 |  | 6.9 | 3.8 |
| Lin. Reg. - External 1st Decile | 0.6 | 9.4 | 41.2 |  | 13.1 | 1.9 |
| Lin. Reg. - External 1st Decile, w/ interaction | 0.6 | 9.4 | 43.8 |  | 16.2 | 2.5 |
| **BIS (< 0)** |
| Uncorrected | 0.6 | 30.0 | 55.0 |  | 12.5 | 8.1 |
| Exclusion | 0.6 | 32.5 | 57.9 |  | 16.2 | 9.1 |
| CF - Internal | 0.6 | 25.6 | 57.9 |  | 10.0 | 15.0 |
| CF - Meta Analysis | 0.6 | 31.2 | 57.5 |  | 15.6 | 9.4 |
| CF - Meta Analysis of Infants / Women | 0.6 | 31.2 | 57.5 |  | 15.0 | 9.4 |
| Lin. Reg. - Mean | 0.6 | 34.4 | 61.9 |  | 15.6 | 9.4 |
| Lin. Reg. - Mean, w/ interaction | 0.6 | 35.0 | 68.8 |  | 14.4 | 10.0 |
| Lin. Reg. - Median | 0.6 | 34.4 | 62.5 |  | 15.6 | 9.4 |
| Lin. Reg. - Median, w/ interaction | 0.6 | 35.0 | 68.8 |  | 14.4 | 10.0 |
| Lin. Reg. - 1st Decile | 0.6 | 40.6 | 67.5 |  | 20.6 | 10.6 |
| Lin. Reg. - 1st Decile, w/ interaction | 0.6 | 41.2 | 78.8 |  | 23.8 | 11.2 |
| Lin. Reg. - Minimum | 0.6 | 51.2 | 83.8 |  | 23.1 | 13.8 |
| Lin. Reg. - Minimum, w/ interaction | 0.0 | 68.8 | 94.4 |  | 38.8 | 24.4 |
| Lin. Reg. - External 1st Decile | 0.6 | 36.2 | 72.5 |  | 25.6 | 10.6 |
| Lin. Reg. - External 1st Decile, w/ interaction | 0.6 | 36.2 | 75.0 |  | 33.1 | 11.2 |
| \*Infants. \*\*Mothers. 1CF: Correction Factor as per Thurnham (Thurnham and McCabe, 2012). “Meta-analysis” indicates using correction factors from Thurnham meta-analysis (Thurnham et al., 2010). “Meta analysis (population-specific) indicates that values were taken from the meta-analysis subset to infants for infants and for women of reproductive age for mothers. 2Lin. Reg. refers to linear regression method, with reference listed as well as use of an interaction between AGP and CRP or not. Referents listed are population-specific and are derived from the uninflamed population with data at each time point. First decile are as follows: Infant referents—1st blood draw: CRP = 0.10 mg/L, AGP = 0.18 g/L; 2nd blood draw: CRP = 0.12 mg/L, AGP = 0.29 g/L; 3rd blood draw: CRP = 0.14 mg/L, AGP = 0.31 g/L. Maternal referents—1st blood draw: CRP = 0.44 mg/L, AGP = 0.49 g/L; 2nd blood draw: CRP = 0.32 mg/L, AGP = 0.46 g/L. External referents are drawn from the BRINDA project (Suchdev et al., 2015) and are as follows: Infants—CRP = 0.12 mg/L, AGP = 0.63 g/L; Mothers—CRP = 0.17 mg/L, AGP = 0.54 g/L.  |