## Table S2

| Serum maternal inflammation biomarkers | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Unadjusted | | | | | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Ln Alpha(1)-acid glycoprotein (g/L) | Ln Lactulose 3 months (mmol/L) | 347 | 0.33 | 0.56 | -0.54 | -0.54 | 0 (0, 0) | 1 | 1 | -1.05 | -0.96 | 0.08 (-0.1, 0.27) | 0.39 | 0.84 |
|  | Ln Mannitol 3 months (mmol/L) | 347 | 0.33 | 0.56 | 1.64 | 1.65 | 0.01 (-0.07, 0.09) | 0.87 | 1 | 1.07 | 1.19 | 0.12 (-0.06, 0.29) | 0.18 | 0.84 |
|  | Ln MPO Age 3 months (ng/mL) | 286 | 0.32 | 0.55 | 8.72 | 8.74 | 0.02 (-0.34, 0.38) | 0.93 | 1 | 8.85 | 8.94 | 0.09 (-0.14, 0.33) | 0.46 | 0.84 |
|  | Ln A1AT Age 3 months(mg/g) | 286 | 0.32 | 0.55 | -0.72 | -0.77 | -0.04 (-0.12, 0.04) | 0.29 | 0.86 | -0.42 | -0.44 | -0.02 (-0.09, 0.05) | 0.6 | 0.92 |
|  | Ln NEO Age 3 months (nmol/L) | 286 | 0.32 | 0.55 | 6.86 | 6.85 | -0.01 (-0.06, 0.04) | 0.74 | 1 | 6.85 | 6.83 | -0.02 (-0.07, 0.03) | 0.47 | 0.84 |
|  | Ln Lactulose 14 months (mmol/L) | 493 | 0.32 | 0.58 | -1.41 | -1.31 | 0.1 (-0.07, 0.26) | 0.24 | 0.8 | -1.23 | -1.22 | 0.01 (-0.07, 0.09) | 0.84 | 0.97 |
|  | Ln Mannitol 14 months (mmol/L) | 493 | 0.32 | 0.58 | 0.79 | 0.82 | 0.04 (-0.04, 0.12) | 0.36 | 0.86 | 0.74 | 0.84 | 0.1 (-0.05, 0.24) | 0.19 | 0.84 |
|  | Ln MPO Age 14 months (ng/mL) | 508 | 0.32 | 0.58 | 8.67 | 8.57 | -0.1 (-0.4, 0.19) | 0.5 | 0.86 | 8.64 | 8.5 | -0.14 (-0.32, 0.04) | 0.14 | 0.84 |
|  | Ln A1AT Age 14 months(mg/g) | 508 | 0.32 | 0.58 | -0.94 | -0.91 | 0.02 (-0.04, 0.09) | 0.49 | 0.86 | -0.79 | -0.77 | 0.03 (-0.04, 0.09) | 0.45 | 0.84 |
|  | Ln NEO Age 14 months (nmol/L) | 508 | 0.32 | 0.58 | 6.74 | 6.76 | 0.02 (-0.04, 0.08) | 0.52 | 0.86 | 6.83 | 6.83 | 0 (-0.13, 0.13) | 0.97 | 0.99 |
|  | Ln REG1β Age 14 months (µg/mL) | 507 | 0.32 | 0.58 | 4.99 | 4.97 | -0.02 (-0.09, 0.04) | 0.49 | 0.86 | 5.04 | 5.01 | -0.03 (-0.1, 0.04) | 0.34 | 0.84 |
|  | Ln Lactulose 28 months (mmol/L) | 527 | 0.33 | 0.56 | -1.27 | -1.27 | 0 (0, 0) | 1 | 1 | -1.3 | -1.27 | 0.03 (-0.05, 0.1) | 0.54 | 0.88 |
|  | Ln Mannitol 28 months (mmol/L) | 527 | 0.33 | 0.56 | 1.38 | 1.42 | 0.04 (-0.03, 0.1) | 0.25 | 0.8 | 1.25 | 1.27 | 0.02 (-0.04, 0.08) | 0.55 | 0.88 |
|  | Ln MPO Age 28 months (ng/mL) | 533 | 0.32 | 0.56 | 7.67 | 7.68 | 0.01 (-0.23, 0.25) | 0.94 | 1 | 8.16 | 8.13 | -0.03 (-0.27, 0.21) | 0.82 | 0.97 |
|  | Ln A1AT Age 28 months(mg/g) | 533 | 0.32 | 0.56 | -1.22 | -1.17 | 0.05 (-0.07, 0.17) | 0.45 | 0.86 | -0.81 | -0.83 | -0.02 (-0.09, 0.06) | 0.72 | 0.96 |
|  | Ln NEO Age 28 months (nmol/L) | 533 | 0.32 | 0.56 | 6.26 | 6.26 | 0 (0, 0) | 1 | 1 | 5.9 | 5.87 | -0.03 (-0.1, 0.04) | 0.42 | 0.84 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ln C-reactive protein (mg/L) | Ln Lactulose 3 months (mmol/L) | 347 | 1.11 | 4.5 | -0.09 | -1.02 | -0.92 (-1.4, -0.45) | 0 | 0 | -1.02 | -1.01 | 0 (0, 0) | 0.06 | 0.84 |
|  | Ln Mannitol 3 months (mmol/L) | 347 | 1.11 | 4.5 | 1.92 | 1.2 | -0.72 (-1.15, -0.3) | 0 | 0.01 | 1.2 | 0.96 | -0.24 (-0.61, 0.14) | 0.22 | 0.84 |
|  | Ln MPO Age 3 months (ng/mL) | 286 | 1.11 | 4.5 | 8.75 | 8.75 | 0 (0, 0) | 0 | 0 | 8.87 | 8.85 | -0.01 (-0.05, 0.02) | 0.43 | 0.84 |
|  | Ln A1AT Age 3 months(mg/g) | 286 | 1.11 | 4.5 | -0.76 | -0.76 | 0 (0, 0) | 0 | 0 | -0.42 | -0.43 | 0 (-0.04, 0.03) | 0.81 | 0.97 |
|  | Ln NEO Age 3 months (nmol/L) | 286 | 1.11 | 4.5 | 6.86 | 6.85 | 0 (0, 0) | 0 | 0 | 6.83 | 6.85 | 0.02 (-0.03, 0.08) | 0.41 | 0.84 |
|  | Ln Lactulose 14 months (mmol/L) | 493 | 1 | 4.15 | -1.37 | -1.37 | 0 (0, 0) | 1 | 1 | -1.26 | -1.23 | 0.03 (-0.01, 0.06) | 0.15 | 0.84 |
|  | Ln Mannitol 14 months (mmol/L) | 493 | 1 | 4.15 | 0.7 | 0.84 | 0.14 (0, 0.28) | 0.04 | 0.26 | 0.69 | 0.85 | 0.16 (0.01, 0.31) | 0.03 | 0.75 |
|  | Ln MPO Age 14 months (ng/mL) | 508 | 1 | 4.14 | 8.62 | 8.52 | -0.1 (-0.26, 0.06) | 0.23 | 0.8 | 8.61 | 8.5 | -0.11 (-0.29, 0.07) | 0.23 | 0.84 |
|  | Ln A1AT Age 14 months(mg/g) | 508 | 1 | 4.14 | -0.92 | -0.92 | 0 (0, 0) | 0 | 0 | -0.79 | -0.79 | 0 (-0.03, 0.03) | 0.96 | 0.99 |
|  | Ln NEO Age 14 months (nmol/L) | 508 | 1 | 4.14 | 6.78 | 6.73 | -0.05 (-0.16, 0.06) | 0.37 | 0.86 | 6.86 | 6.8 | -0.05 (-0.18, 0.07) | 0.4 | 0.84 |
|  | Ln REG1β Age 14 months (µg/mL) | 507 | 1 | 4.14 | 4.91 | 4.81 | -0.11 (-0.35, 0.14) | 0.4 | 0.86 | 4.86 | 4.77 | -0.09 (-0.34, 0.17) | 0.51 | 0.87 |
|  | Ln Lactulose 28 months (mmol/L) | 527 | 0.94 | 4.14 | -1.27 | -1.27 | 0 (0, 0) | 1 | 1 | -1.3 | -1.28 | 0.02 (-0.02, 0.05) | 0.44 | 0.84 |
|  | Ln Mannitol 28 months (mmol/L) | 527 | 0.94 | 4.14 | 1.4 | 1.4 | 0 (0, 0) | 0 | 0 | 1.27 | 1.31 | 0.04 (-0.16, 0.23) | 0.72 | 0.96 |
|  | Ln MPO Age 28 months (ng/mL) | 533 | 1 | 4.13 | 7.66 | 7.68 | 0.02 (-0.01, 0.06) | 0.16 | 0.68 | 8.13 | 8.16 | 0.02 (-0.01, 0.06) | 0.15 | 0.84 |
|  | Ln A1AT Age 28 months(mg/g) | 533 | 1 | 4.13 | -1.26 | -1.06 | 0.2 (-0.09, 0.48) | 0.17 | 0.69 | -0.91 | -0.77 | 0.14 (-0.15, 0.43) | 0.34 | 0.84 |
|  | Ln NEO Age 28 months (nmol/L) | 533 | 1 | 4.13 | 6.26 | 6.26 | 0 (0, 0) | 1 | 1 | 5.88 | 5.88 | 0 (0, 0) | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maternal Sumscore of 13 plasma cytokines | Ln Lactulose 3 months (mmol/L) | 274 | -0.7 | 0.65 | -0.62 | -0.53 | 0.09 (-0.13, 0.31) | 0.44 | 0.86 | -1.03 | -1.02 | 0.01 (-0.19, 0.22) | 0.9 | 0.97 |
|  | Ln Mannitol 3 months (mmol/L) | 274 | -0.7 | 0.65 | 1.61 | 1.65 | 0.04 (-0.16, 0.23) | 0.71 | 1 | 1.24 | 1.18 | -0.06 (-0.22, 0.1) | 0.46 | 0.84 |
|  | Ln MPO Age 3 months (ng/mL) | 223 | -0.67 | 0.65 | 8.78 | 8.73 | -0.05 (-0.25, 0.15) | 0.61 | 0.97 | 8.88 | 8.78 | -0.11 (-0.38, 0.16) | 0.45 | 0.84 |
|  | Ln A1AT Age 3 months(mg/g) | 223 | -0.67 | 0.65 | -0.75 | -0.59 | 0.16 (-0.01, 0.32) | 0.06 | 0.32 | -0.45 | -0.34 | 0.11 (-0.13, 0.34) | 0.38 | 0.84 |
|  | Ln NEO Age 3 months (nmol/L) | 223 | -0.67 | 0.65 | 6.79 | 6.89 | 0.11 (-0.01, 0.22) | 0.08 | 0.36 | 6.86 | 6.95 | 0.09 (-0.03, 0.21) | 0.15 | 0.84 |
|  | Ln Lactulose 14 months (mmol/L) | 405 | -0.64 | 0.63 | -1.4 | -1.4 | 0 (0, 0) | 1 | 1 | -1.26 | -1.26 | 0 (-0.16, 0.15) | 0.99 | 0.99 |
|  | Ln Mannitol 14 months (mmol/L) | 405 | -0.64 | 0.63 | 0.74 | 0.75 | 0 (-0.14, 0.15) | 0.98 | 1 | 0.84 | 0.83 | -0.01 (-0.16, 0.14) | 0.91 | 0.97 |
|  | Ln MPO Age 14 months (ng/mL) | 422 | -0.63 | 0.64 | 8.57 | 8.57 | 0 (0, 0) | 1 | 1 | 8.66 | 8.57 | -0.09 (-0.44, 0.26) | 0.62 | 0.92 |
|  | Ln A1AT Age 14 months(mg/g) | 422 | -0.63 | 0.64 | -0.91 | -0.92 | -0.01 (-0.14, 0.12) | 0.86 | 1 | -0.69 | -0.67 | 0.01 (-0.12, 0.14) | 0.86 | 0.97 |
|  | Ln NEO Age 14 months (nmol/L) | 422 | -0.63 | 0.64 | 6.68 | 6.67 | -0.01 (-0.16, 0.14) | 0.93 | 1 | 6.86 | 6.83 | -0.03 (-0.17, 0.12) | 0.74 | 0.96 |
|  | Ln REG1β Age 14 months (µg/mL) | 421 | -0.63 | 0.63 | 4.94 | 4.95 | 0.01 (-0.12, 0.15) | 0.86 | 1 | 4.97 | 5 | 0.02 (-0.12, 0.17) | 0.76 | 0.96 |
|  | Ln Lactulose 28 months (mmol/L) | 498 | -0.63 | 0.65 | -1.31 | -1.23 | 0.08 (-0.07, 0.23) | 0.31 | 0.86 | -1.29 | -1.26 | 0.03 (-0.12, 0.19) | 0.7 | 0.96 |
|  | Ln Mannitol 28 months (mmol/L) | 498 | -0.63 | 0.65 | 1.38 | 1.43 | 0.05 (-0.07, 0.17) | 0.41 | 0.86 | 1.29 | 1.27 | -0.02 (-0.14, 0.1) | 0.74 | 0.96 |
|  | Ln MPO Age 28 months (ng/mL) | 504 | -0.63 | 0.65 | 7.69 | 7.68 | -0.01 (-0.13, 0.12) | 0.93 | 1 | 8.18 | 8.23 | 0.05 (-0.08, 0.18) | 0.43 | 0.84 |
|  | Ln A1AT Age 28 months(mg/g) | 504 | -0.63 | 0.65 | -1.18 | -1.13 | 0.05 (-0.07, 0.17) | 0.39 | 0.86 | -0.82 | -0.76 | 0.06 (-0.06, 0.19) | 0.32 | 0.84 |
|  | Ln NEO Age 28 months (nmol/L) | 504 | -0.63 | 0.65 | 6.23 | 6.28 | 0.05 (-0.09, 0.18) | 0.51 | 0.86 | 5.89 | 5.88 | -0.01 (-0.15, 0.13) | 0.9 | 0.97 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | |