**Table S1**: Regression model adjusted by the treatment group that compares the biochemical variables studied with the maternal and neonatal clinical outcomes of interest studied.

| | **Gestational age at birth** | | **Preeclampsia** | | **Preterm (week 37th)** | | **Weight at birth** | | **Neonatal therapy and morbidity** | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Estimate (95% CI) | P *Value* | Odds ratio (95% CI) | P *Value* | Odds ratio (95% CI) | P *Value* | Estimate (95% CI) | P *Value* | Odds ratio (95% CI) | P *Value* |
| DKK1 (T1) | -0.001 (-0.002 – 0.000) | 0.279 | 1.001 (0.999 – 1.003) | 0.474 | 1.000 (0.999 – 1.001) | 0.673 | -0.153 (-0.381 – 0.076) | 0.285 | 0.000 (-0.000 – 0.000) | 0.827 |
| DKK1 (T3) | -0.001 (-0.002 – 0.000) | 0.247 | 1.001 (0.999 – 1.003) | 0.334 | 1.001 (1.000 – 1.002) | 0.312 | -0.076 (-0.306 – 0.155) | 0.520 | 0.000 (-0.000 – 0.000) | 0.993 |
| OPG (T1) | -0.001 (-0.003 – 0.001) | 0.223 | 1.003 (0.999 – 1.006) | 0.146 | 1.001 (0.998 – 1.003) | 0.629 | -0.347 (-0.798 – 0.103) | 0.196 | -0.000 (-0.000 – 0.000) | 0.689 |
| OPG (T3) | -0.000(-0.001 – 0.000) | 0.336 | 1.001 (1.000 – 1.003) | 0.145 | 1.001 (1.000 – 1.002) | 0.377 | -0.051 (-0.279 – 0.177) | 0.661 | 0.000 (-0.000 – 0.000) | 0.624 |
| OC (T1) | -0.000 (-0.000 – 0.000) | 0.452 | 1.000 (1.000 – 1.000) | 0.272 | ***1.000 (1.000 – 1.000)*** | ***0.040*** | -0.002 (-0.029 – 0.025) | 0.889 | -0.000 (-0.000 – 0.000) | 0.602 |
| OC (T3) | -0.000( -0.000 – 0.000) | 0.238 | 1.000 (1.000 – 1.000) | 0.593 | 1.000 (1.000 – 1.000) | 0.206 | -0.001 (-0.017 – 0.016) | 0.937 | 0.000 (-0.000 – 0.000) | 0.732 |
| OPN (T1) | 0.000( -0.000 – 0.000) | 0.911 | 1.000 (1.000 – 1.000) | 0.865 | 1.000 (1.000 – 1.000) | 0.906 | -0.005 (-0.014 – 0.004) | 0.315 | 0.000 (-0.000 – 0.000) | 0.654 |
| OPN (T3) | -0.000( -0.000 – 0.000) | 0.856 | 1.000 (1.000 – 1.000) | 0.846 | 1.000 (1.000 – 1.000) | 0.712 | ***-0.007 (-0.013 – -0.001)*** | ***0.047*** | 0.000 (-0.000 – 0.000) | 0.619 |
| SOST (T1) | -0.001( -0.002 – 0.000) | 0.209 | 1.002 (0.999 – 1.004) | 0.234 | 1.000 (0.999 – 1.002) | 0.620 | -0.128 (-0.374 – 0.119) | 0.311 | -0.000 (-0.000 – 0.000) | 0.838 |
| SOST (T3) | ***-0.002( -0.003 – -0.000)*** | ***0.015*** | ***1.004 (1.001 – 1.006)*** | ***0.008*** | ***1.002 (1.000 – 1.004)*** | ***0.044*** | ***-0.335 (-0.629 – -0.042)*** | ***0.038*** | 0.000 (-0.000 – 0.000) | 0.391 |
| RANKL (T1) | 0.007 (-0.007 – 0.021) | 0.349 | 0.974 (0.878 – 1.016) | 0.733 | 0.992 (0.966 – 1.011) | 0.733 | 2.139 (-1.321 – 5.599) | 0.303 | -0.001 (-0.003 – 0.002) | 0.679 |
| RANKL (T3) | 0.004 (-0.014 – 0.021) | 0.687 | 0.970 (0.854 – 1.019) | 0.762 | 0.992 (0.960 – 1.014) | 0.705 | 0.814 (-3.326 – 4.953) | 0.700 | -0.000 (-0.003 – 0.003) | 0.982 |
| AP (T1) | -0.023 (-0.057 – 0.011) | 0.284 | 0.975 (0.887 – 1.050) | 0.849 | 1.003 (0.959 – 1.048) | 0.892 | -3.223 (-11.609 – 5.163) | 0.451 | 0.003 (-0.004 – 0.010) | 0.948 |
| AP (T3) | -0.007 (-0.017 – 0.002) | 0.176 | 1.018 (1.002 – 1.036) | 0.044 | 1.005 (0.993 – 1.018) | 0.580 | -2.361 (-4.590 – -0.132) | 0.057 | ***0.002 (0.001 – 0.004)*** | ***0.020*** |
| Insulin (T1) | -0.000 (-0.001 – 0.000) | 0.651 | 1.001 (1.000 – 1.002) | 0.286 | 1.000 (1.000 – 1.001) | 0.629 | 0.035 (-0.111 – 0.180) | 0.639 | -0.000 (-0.000 – 0.000) | 0.642 |
| Insulin (T3) | -0.000 (-0.000 – 0.000) | 0.849 | 0.999 (0.998 – 1.000) | 0.105 | 1.000 (1.000 – 1.000) | 0.909 | 0.024 (-0.031 – 0.079) | 0.399 | 0.000 (-0.000 – 0.000) | 0.652 |
| Leptin (T1) | -0.000 (-0.000 – 0.000) | 0.759 | 1.000 (1.000 – 1.000) | 0.139 | 1.000 (1.000 – 1.000) | 0.736 | 0.005 (-0.004 – 0.014) | 0.306 | -0.000 (-0.000 – 0.000) | 0.748 |
| Leptin (T3) | -0.000 (-0.000 – 0.000) | 0.271 | 1.000 (1.000 – 1.000) | 0.843 | 1.000 (1.000 – 1.000) | 0.411 | -0.001 (-0.015 – 0.013) | 0.865 | -0.000 (-0.000 – 0.000) | 0.609 |
| TNF-α (T1) | 0.064 (-0.365 – 0.493) | 0.770 | 2.146 (0.986 – 4.648) | 0.069 | 1.147 (0.669 – 1.980) | 0.637 | 0.122 (-103.81 – 104.05) | 0.998 | -0.036 (-0.006 – 0.002) | 0.603 |
| TNF-α (T3) | -0.053 (-0.343 – 0.237) | 0.722 | 1.056 (0.530 – 1.818) | 0.856 | 1.010 (0.698 – 1.452) | 0.956 | -36.803 (-106.66– 33.061) | 0.302 | 0.003 (-0.006 – 0.011) | 0.291 |
| Il-6 (T1) | 0.007 (-0.014 – 0.027) | 0.526 | 0.991 (0.914 – 1.030) | 0.802 | 0.997 (0.969 – 1.022) | 0.787 | 2.781 (-2.046 – 7.608) | 0.350 | -0.002 (-0.121 – 0.048) | 0.638 |
| IL-6 (T3) | 0.007 (-0.013 – 0.027) | 0.509 | 0.991 (0.913 – 1.030) | 0.824 | 0.995 (0.939 – 1.051) | 0.981 | 2.226 (-2.616 – 7.048) | 0.369 | 0.048 (-0.009 – 0.105) | 0.693 |
| 8-OHdG (T1) | -0.018(-0.035 – -0.000) | 0.071 | 1.033 (0.992 – 1.083) | 0.203 | 1.016 (0.994 – 1.041) | 0.242 | -4.090 (-8.327 – 0.146) | 0.088 | 0.002 (-0.002 – 0.005) | 0.857 |
| 8-OHdG (T3) | -0.019 (-0.039 – 0.001) | 0.101 | 1.049 (1.000 – 1.111) | 0.106 | 1.024 (0.997 – 1.052) | 0.127 | -4.217 (-9.100 – 0.666) | 0.136 | 0.002 (-0.003 – 0.006) | 0.907 |
| TBARS (T1) | -0.669 (-2.518 – 1.179) | 0.478 | 10.824(0.319 – 80.74) | 0.231 | 6.210 (0.608 – 76.900) | 0.199 | -14.345(-462.954 – 34.26) | 0.950 | -0.014 (-0.381 – 0.353) | 0.941 |
| TBARS (T3) | ***-1.946 (-3.652 – -0.241)*** | ***0.038*** | 0.375 (0.003 – 13.446) | 0.801 | 10.408 (1.091 – 134.965) | 0.079 | -12.352(-546.414–299.37) | 0.567 | 0.227 (-0.116 – 0.570) | 0.585 |
| TAC (T1) | -0.146 (-0.479 – 0.186) | 0.388 | 1.092 (0.544 – 2.376) | 0.840 | 1.108 (0.731 – 1.695) | 0.677 | -26.092(-106.716 – 54.53) | 0.526 | 0.031 (-0.035 – 0.097) | 0.946 |
| TAC (T3) | -0.022 (-0.258 – 0.214) | 0.855 | 0.757 (0.346 – 1.301) | 0.624 | 0.978 (0.719 – 1.312) | 0.880 | 44.470 (-12.066 – 101.006) | 0.185 | 0.001 (-0.046 – 0.048) | 0.967 |

The significance threshold has been adjusted using the FDR method (False Discovery Rate). differences between the value of the biochemical variable in the first and third trimester of pregnancy are shown with the values in bold type ($p<0.05$)