**Supplement 2: Statistical analyses**

eTable 1. Dependent Variable: CBLC1½-5 Attention problems T-score.

|  |  |
| --- | --- |
|  | Type III |
| Source | Wald Chi-Square | df | Sig. |
| Model | 24.049 | 6 | .001 |
| (Intercept) | 11.097 | 1 | .001 |
| Choline > 7.07μM | 3.837 | 1 | .050 |
| Child sex | 3.873 | 1 | .049 |
| Depression DSM-5 | 6.696 | 1 | .010 |
| Maternal age yrs | 2.077 | 1 | .150 |
| Gestational age at birth days | 4.168 | 1 | .041 |
| Choline > 7.07uμM \* Child sex | .004 | 1 | .951 |
|  |
|  |  Marginal mean |  Std. Error |
|
| Choline >7.07μM  | 52.8 | 1.0 |
| Choline < 7.07μM | 55.2 | 0.7 |

eTable 2. Dependent Variable: CBLC1½-5 Social withdrawn T-score.

|  |  |
| --- | --- |
| Source | Type III |
| Wald Chi-Square | df | Sig. |
| Model | 14.074 | 6 | .029 |
| (Intercept) | 20.761 | 1 | .000 |
| Choline > 7.07μM \* Child sex | 5.362 | 1 | .021 |
| Choline > 7.07μM | 2.124 | 1 | .145 |
| Child sex | .421 | 1 | .517 |
| Depression DSM-5 | 4.595 | 1 | .032 |
| Maternal age yrs | .419 | 1 | .518 |
| Gestational age at birth days | .631 | 1 | .427 |

|  |  |  |  |
| --- | --- | --- | --- |
| Marginal mean (SE) | Male | Female | Sig. |
| Choline > 7.07μM | 52.0 (1.2) | 54.5 (1.7) | 0.294 |
| Choline < 7.07μM | 57.6 (1.2) | 53.2 (1.2) | 0.012 |
| Sig. | 0.007 | 0.546 |  |

eTable 3. Dependent Variable: CBLC1½-5 Sleep problems T-score.

|  |  |
| --- | --- |
| Source | Type III |
| Wald Chi-Square | df | Sig. |
| Model | 18.991 | 6 | .004 |
| (Intercept) | 4.857 | 1 | .028 |
| Choline > 7.07μM | 4.354 | 1 | .037 |
| Child sex | .710 | 1 | .399 |
| Depression DSM-5 | 6.625 | 1 | .010 |
| Maternal age yrs | .112 | 1 | .738 |
| Gestational age at birth days | 4.021 | 1 | .045 |
| Choline > 7.07μM \* Child sex | 1.127 | 1 | .288 |

|  |  |  |
| --- | --- | --- |
|  | Marginal mean | Std. Error |
|
| Choline > 7.07uμM | 52.1 | 1.1 |
| Choline < 7.07uμM | 55.0 | 0.8 |

eTable 4. Dependent variable: Newborn P50S2μV.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
|  | (Constant) | .249 | .191 |  | 1.301 | .195 |
| Newborn P50S1μV | .446 | .044 | .617 | 10.036 | .000 |
| Gestational age at P50 recording | .003 | .004 | .045 | .738 | .462 |
| Maternal choline μM16 wks gestation | -.042 | .021 | -.122 | -1.993 | .048 |

eTable 5. Dependent Variable: CBLC1½-5 Attention Problems T-score

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
|  | (Constant) | 56.500 | 2.141 |  | 26.390 | .000 |
| Newborn P50S2μV | 3.978 | 1.306 | .381 | 3.045 | .003 |
| Newborn P50S1μV | -1.062 | .833 | -.159 | -1.275 | .206 |
| Gestational age at recording  |  -.115 | .063 | -.194 | -1.831 | .071 |

eTable 6. Dependent Variable: CBLC1½-5 Attention Problems T-score

|  |  |
| --- | --- |
| Source | Type III |
| Wald Chi-Square | df | Sig. |
| Model | 40.733 | 10 | .000 |
| (Intercept) | 20.313 | 1 | .000 |
| Choline > 7.07μM | 5.367 | 1 | .021 |
| Cannabis use 16wks gestation | 3.337 | 1 | .068 |
| Moderate to severe infection reported 16 wks gestation | .530 | 1 | .466 |
| Child sex | 2.386 | 1 | .122 |
| Depression DSM-5 | 2.028 | 1 | .154 |
| Maternal age yrs | 1.983 | 1 | .159 |
| Gestational age at birth days | 1.936 | 1 | .164 |
| Choline > 7.07μM \* child\_gender\_number | .117 | 1 | .733 |
| Choline > 7.07μM \* Moderate to severe infection reported 16 wks gestation | .001 | 1 | .978 |
| Choline > 7.07μM \* Cannabis use 16wks gestation | 2.905 | 1 | .088 |