|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Supplementary table 2.  |  |  |  |  |
| **Crude mean (SD) birth weight in gram according to explanatory factors.** |   |   |  |
|  | **Total**  |  |
|   | n=719 |  |
|   | Mean | (SD) | p-valueᵃ |  |
| Overall mean birth weight | 3485 | (501) |  |  |
| 25(OH)D at GW 15 b  |  |  |  |  |
| >=50 nmol/L (ref) | 3550 | (493) |  |  |
| <50 nmol/L | 3413 | (496) | <0.01 |  |
| >=25 nmol/L (ref) | 3510 | (498) |  |  |
| <25 nmol/L | 3352 | (487) | 0.01 |  |
| 25(OH)D at GW 28 c |  |  |  |  |
| >=50 nmol/L (ref) | 3514 | (488) |  |  |
| <50 nmol/L | 3462 | (512) | 0.18 |  |
| >=25 nmol/L (ref) | 3507 | (497) |  |  |
| <25 nmol/L | 3329 | (496) | 0.01 |  |
| Consistently sufficient d(ref) | 3544 | (486) | <0.01e |  |
| Decreasing  | 3537 | (475) |  |  |
| Increasing | 3396 | (506) |  |  |
| Consistently deficient | 3363 | (502) |  |  |
| Western Europe (ref) | 3623 | (472) |  |  |
| Asia | 3286 | (469) | <0.01 |  |
| Middle East/North Africa incl. Horn of Africa | 3455 | (512) | 0.01 |  |
| Age |  |  |  |  |
| ≤30 years | 3415 | (500) |  |  |
| >30 years | 3560 | (492) | <0.01 |  |
| Parity (Para 0 ref) | 3442 |  (504) |  |  |
| Para 1 | 3504 | (515) | 0.15 |  |
| Para ≥2 | 3550 | (462) | 0.02 |  |
| Pre-pregnancy BMI f; kg/m2 (normal weight (<25) ref) | 3432 | (511) |  |  |
| Overweight (≥25/<30) | 3517 | (449) | 0.048 |  |
| Obesity (≥30) | 3686 | (500) | <0.01 |  |
| Education level f (>12years ref) | 3558 | (505) |  |  |
| 10-12 years | 3428 | (509) | <0.01 |  |
| <10 years  | 3436 | (459) | 0.02 |  |
| Gender Neonate (boy ref) | 3556 | (491) |  |  |
| Girl | 3411 | (495) | <0.01 |  |
| Season of birth; Summer ref (June-August) | 3518 | (528) | 0.03e |  |
| Autumn (Sept-Nov) | 3475 | (467) |  |  |
| Winter (Dec-Feb) | 3385 | (477 |  |  |
| Spring (March-May) | 3535 | (512) |   |  |
| *ᵃ t-test*  |  |  |  |  |
| *b Incomplete data on the variables because of missing values for 14 women* |  |  |
| *c Incomplete data on the variables because of missing values for 36 women* |  |  |
| *d Incomplete data on the variables because of missing values for categories of 25(OH)D for 47 women*  |
|  |  |  |  |  |
|  |  |  |  |  |
| *e Anova* |  |  |  |  |
| *f Incomplete data on the variables because of missing values for 6-12 women.* |  |  |
| 25(OH)D: 25-hydroxyvitamin D; GW: gestational week |  |  |  |  |
| Consistently sufficient: 25(OH)D ≥37 nmol/L at GW 15 and 28  |  |  |  |
| Decreasing: 25(OH)D ≥37 nmol/L at GW 15 and <37 at GW28 |  |  |  |
| Increasing: 25(OH)D <37 nmol/L at GW 15 and ≥37 at GW28 |  |  |  |
| Consistently deficient: 25(OH)D <37 nmol/L at GW 15 and 28  |  |  |  |  |