**Supplementary Table 3**. β and 95%CI for the cross-sectional relationship between vitamin D status and depression symptoms (continuous) (n=1549)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Depressive symptoms (continuous) at wave 1 | | | | |
|  | Model | Overall sample adjusted for sex | Males | Females |
| 25(OH)D levels at wave 1 |  |  |  |  |
|  | Unadjusted | -0.04(-0.14, 0.05) | -0.04(-0.15, 0.07) | -0.04(-0.21, 0.12) |
|  | Adjusted | -0.04(-0.14, 0.05) | -0.05(-0.16, 0.05) | -0.03(-0.20, 0.13) |
| VDD at wave 1 |  |  |  |  |
|  | Unadjusted | 0.69(-0.43, 1.82) | 0.94(-0.50, 2.38) | 0.39(-1.42, 2.19) |
|  | Adjusted | 0.66(-0.45, 1.77) | 0.96(-0.46, 2.36) | 0.29(-1.53, 2.11) |
| Depressive symptoms (continuous) at wave 3 | | | | |
|  | Model | Overall sample adjusted for sex | Males | Females |
| 25(OH)D levels at wave 3 |  |  |  |  |
|  | Unadjusted | -0.05(-0.16, 0.05) | -0.05(-0.17, 0.08) | -0.07(-0.25, 0.12) |
| Adjusted | -0.04(-0.14, 0.06) | -0.04(-0.17, 0.08) | -0.06(-0.25, 0.13) |
| VDD at wave 3 |  |  |  |  |
|  | Unadjusted | 0.06(-1.15, 1.28) | 0.27(-1.19, 1.74) | -0.32(-2.44, 1.81) |
| Adjusted | -0.02(-1.23, 1.19) | 0.24(-1.23, 1.71) | -0.27(-2.42, 1.87) |

Adjusted model included covariates: age at wave 1, only child status, family structure, self-perceived family economic status, BMI at wave 1, physical activity at wave 1 and self-perceived puberty timing at wave 1.