**Supplementary Table 4**. OR and 95%CI for the cross-sectional relationship between vitamin D status and depression symptoms (dichotomous)(n=1549)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Depressive symptoms (dichotomous) at wave 1 | | | | |
|  | Model | Overall sample adjusted for sex | Males | Females |
| 25(OH)D level at wave 1 |  |  |  |  |
|  | Unadjusted | 0.99(0.97, 1.01) | 0.99(0.97, 1.01) | 0.99(0.96, 1.02) |
|  | Adjusted | 0.99(0.97, 1.01) | 0.98(0.96, 1.01) | 0.99(0.96, 1.03) |
| VDD at wave 1 | Unadjusted | 1.13(0.91, 1.41) | 1.25(0.94, 1.69) | 0.99(0.71, 1.38) |
|  | Adjusted | 1.13(0.90, 1.41) | 1.29(0.95, 1.75) | 0.96(0.68, 1.36) |
| Depressive symptoms (dichotomous) at wave 3 | | | | |
|  | Model | Overall sample adjusted for sex | Males | Females |
| 25(OH)D level at wave 3 |  |  |  |  |
|  | Unadjusted | 0.99(0.98, 1.02) | 1.01(0.98, 1.03) | 0.99(0.96, 1.02) |
|  | Adjusted | 0.99(0.98, 1.02) | 1.01(0.98, 1.03) | 0.99(0.96, 1.02) |
| VDD at wave 3 | Unadjusted | 0.98(0.79, 1.21) | 0.95(0.72, 1.25) | 1.03(0.73, 1.45) |
|  | Adjusted | 1.01(0.98, 1.02) | 0.94(0.71, 1.25) | 1.00(0.70, 1.42) |

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.