**S2 Table: Studies included in the meta-analysis of the association of the 2-SNP genetic score influencing plasma 25(OH)D concentration with risk of diabetes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Study (Supplementary reference)** | **Latitude** | **No. of****Cases** | **No. of****Controls** |
| ***Northern latitude*** |  |  |  |
| Cambridgeshire Case-Control Study (CCCS) ([S-1](#_ENREF_1), [S-2](#_ENREF_2))  | 52 | 538 | 520 |
| ADDITION-Ely ([S-2](#_ENREF_2), [S-3](#_ENREF_3)) | 52 | 838 | 1474 |
| Norfolk-Diabetes (S-[2](#_ENREF_2), S-[4](#_ENREF_4)) | 52 | 5434 | 6059 |
| DIAGRAM ([S-5](#_ENREF_5)) | 55 | 9580 | 53810 |
| Copenhagen ([S-6](#_ENREF_6)) | 55 | 5037 |  91,386 |
| UKB ([S-7](#_ENREF_7)) | 52 | 6234 | 106,104 |
| ***Southern latitude*** |  |  |  |
| EPIC-InterAct-Metabochip ([S-2](#_ENREF_2), [S-8](#_ENREF_8), [S-9](#_ENREF_9)) | 50 | 3518 | 5870 |
| EPIC-InterAct-GWAS ([S-2](#_ENREF_2), [S-8](#_ENREF_8), [S-9](#_ENREF_9)) | 50 | 4653 | 4690 |
| CKB ([S-10](#_ENREF_10)) | 32 | 5565 |  76,871 |
| T2D Exome Consortium ([S-11](#_ENREF_11)) | 34 |  16,915 |  23,808 |
| **Total** |  |  **58,312** |  **370,592** |

**Supplementary References for studies shown in S2 Table**

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