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| **Supplementary Material 2.** **Association between vitamin D and log(HbA1c) by supplemental intake or dietary calcium intake** |
|  | **Diabetes** | **Non-diabetes** | **P for interaction** | **Diabetes** | **Non-diabetes** | **P for interaction** |
| **Vitamin D levels** | **β(95% CI)** | **β(95% CI)** | **β(95% CI)** | **β(95% CI)** |
|  | **Supplement intake group** | <0.001 | **Non supplement intake group** | 0.006 |
| **Sufficient(≥20ng/mL)** | Ref | Ref |  | Ref | Ref |  |
| **Deficiency(10 to <20ng/mL)** | 0.0403\*(0.0084-0.0721) | -0.0003(-0.0050-0.0045) |  | 0.0302(-0.0007-0.0611) | 0.0011(-0.0036-0.0058) |  |
| **Severe deficiency(<10ng/mL)** | 0.0669(-0.0052-0.1389) | -0.0031(-0.0120-0.0058) |  | 0.0855\*(0.0044-0.1666) | 0.0028(-0.0050-0.0106) |  |
| **p-trend** | 0.009 | 0.634 |  | 0.014 | 0.481 |  |
|  | **Diabetes** | **Non-diabetes** | **P for interaction** | **Diabetes** | **Non-diabetes** | **P for interaction** |
| **Vitamin D levels** | **β(95% CI)** | **β(95% CI)** | **β(95% CI)** | **β(95% CI)** |
|  | **High dietary calcium intake group(≥700mg/day)** | <0.001 | **Low dietary calcium intake group(<700mg/day)** | <0.001 |
| **Sufficient(≥20ng/mL)** | Ref | Ref |  | Ref | Ref |  |
| **Deficiency(10 to <20ng/mL)** | 0.0444(-0.0035-0.0924) | -0.0017(-0.0092-0.0058) |  | 0.0235\*(0.0052-0.0418) | 0.0012(-0.0025-0.0050) |  |
| **Severe deficiency(<10ng/mL)** | 0.2159\*\*(0.0791-0.3526) | 0.0029(-0.0102-0.0161) |  | 0.0333(-0.0052-0.0719) | 0.0006(-0.0060-0.0072) |  |
| **p-trend** | 0.002 | 0.999 |  | 0.012 | 0.717 |  |
| **Adjusted for age, sex, education level, total energy intake, smoking status, physical activity, and obesity.** |