

Supplementary Table S3 Comparison of trends in mean change in serum 25(OH)D₃ after the one-year intervention among arms receiving vitamin D₃ or placebo, according to baseline characteristics

Baseline characteristics	Vitamin D ₃								Linear trend in		Interaction ^b <i>P</i> -value
	Placebo		1,000 IU/d		2,000 IU/d		3,000 IU/d		change in serum 25(OH)D ₃ ^b		
	N	Change in 25(OH)D ₃ ^a	N	Change in 25(OH)D ₃ ^a	N	Change in 25(OH)D ₃ ^a	N	Change in 25(OH)D ₃ ^a	β (95% CI)	<i>P</i> -value	
Serum 25(OH)D ₃											
< 50 nmol/L	19	9.5 ± 6.6	24	45.5 ± 5.8	27	57.0 ± 5.5	32	79.6 ± 5.1	21.7 (16.6, 26.8)	<0.001	0.86
≥ 50 nmol/L	77	-4.3 ± 3.2	72	19.6 ± 3.4	72	39.4 ± 3.4	68	63.1 ± 3.5	22.2 (19.3, 25.2)	<0.001	
Body mass index											
< 25 kg/m ²	62	-0.7 ± 3.7	59	29.0 ± 3.8	63	47.8 ± 3.7	73	71.5 ± 3.5	23.5 (20.4, 26.7)	<0.001	0.29
≥ 25 kg/m ²	34	-3.2 ± 5.1	37	21.5 ± 4.9	36	37.9 ± 4.9	27	59.7 ± 5.7	20.5 (15.9, 25.1)	<0.001	
Month of blood sampling											
June-September	20	1.8 ± 6.6	20	22.7 ± 6.6	21	43.9 ± 6.5	23	59.4 ± 6.2	19.4 (13.7, 25.0)	<0.001	0.18
October-May	76	-2.5 ± 3.4	76	27.0 ± 3.4	78	44.3 ± 3.4	77	71.0 ± 3.4	23.8 (20.8, 26.7)	<0.001	

^a Mean ± SE of the difference between serum 25(OH)D₃ at the end of the one-year intervention and that at baseline.

^b β (95% confidence interval) and *P*-values for trend in mean change in serum 25(OH)D₃, and *P*-values for interaction, are estimated from regression models. Study arm is treated as a continuous variable, and β represents mean difference in change in serum 25(OH)D₃ of 1,000 IU/d vitamin D₃. Models are adjusted for sites.