

Supplementary Table 2. Characteristics of Study Participants by Vitamin D Concentrations

Variables	25(OH)D			<i>p</i> for trend
	<20	20–30	30≤	
Total (n=807)	292	299	216	
Age, yrs	60.3±9.1	61.0±8.8	62.9±9.1	0.001*
Body mass index, kg/m ²	24.3±3.0	24.9±3.1	24.1±3.1	0.525*
25(OH)D, ng/mL	15.2±3.3	24.6±2.7	41.8±11.4	N/A
Glucose [†]	4.6±0.2	4.6±0.2	4.6±0.2	0.281*
Insulin [†]	1.9±0.4	2.0±0.4	1.9±0.5	0.063*
HOMA-IR [†]	0.6±0.5	0.6±0.5	0.5±0.5	0.217*
Diabetes mellitus	43 (14.7)	43 (14.4)	40 (18.5)	0.275 [‡]
HOMA-IR ≥2.5	58 (19.9)	70 (23.4)	42 (19.4)	0.999 [‡]
Current smoker	19 (6.5)	26 (8.7)	29 (13.4)	0.009 [‡]
Current alcohol drinker	88 (30.1)	119 (39.8)	108 (50.0)	<0.001 [‡]
Regular exercise	128 (43.8)	139 (46.5)	87 (40.3)	0.490 [‡]
Men (n=324)	77	118	129	
Age, yrs	63.5±9.1	62.6±8.3	64.1±8.7	0.603*
Body mass index, kg/m ²	24.5±2.6	24.5±3.0	24.0±2.7	0.245*
25(OH)D, ng/mL	16.2±2.7	24.9±2.9	43.1±12.4	N/A
Glucose [†]	4.7±0.2	4.6±0.2	4.7±0.2	0.694*
Insulin [†]	1.9±0.4	1.9±0.4	1.8±0.4	0.098*
HOMA-IR [†]	0.6±0.5	0.5±0.5	0.5±0.5	0.129*
Diabetes mellitus	19 (24.7)	17 (14.4)	29 (22.5)	0.939 [‡]
HOMA-IR ≥2.5	15 (19.5)	22 (18.6)	23 (17.8)	0.765 [‡]
Current smoker	15 (19.5)	24 (20.3)	29 (22.5)	0.590 [‡]
Current alcohol drinker	36 (46.8)	71 (60.2)	85 (65.9)	0.009 [‡]
Regular exercise	34 (44.2)	60 (50.9)	53 (41.1)	0.512 [‡]
Women (n=483)	215	181	87	
Age, yrs	59.1±8.9	60.0±9.0	61.1±9.5	0.092*
Body mass index, kg/m ²	24.2±3.2	25.1±3.2	24.3±3.6	0.833*
25(OH)D, ng/mL	14.8±3.4	24.4±2.7	39.7±9.5	N/A
Glucose [†]	4.6±0.1	4.6±0.2	4.6±0.2	0.882*
Insulin [†]	2.0±0.4	2.1±0.4	1.9±0.5	0.921*
HOMA-IR [†]	0.5±0.5	0.7±0.4	0.5±0.5	0.891*
Diabetes mellitus	24 (11.2)	26 (14.4)	11 (12.6)	0.561 [‡]
HOMA-IR ≥2.5	43 (20.0)	48 (26.5)	19 (21.8)	0.453 [‡]
Current smoker	4 (1.9)	2 (1.1)	0 (0.0)	0.184 [‡]
Current alcohol drinker	52 (24.2)	48 (26.5)	23 (26.4)	0.614 [‡]
Regular exercise	94 (43.7)	79 (43.7)	34 (39.1)	0.526 [‡]

HOMA-IR, homeostasis model assessment for insulin resistance.

**p* for trend was derived from a general linear model using contrast coefficients for linear trend analysis.

[†]Analyzed with log-transformed values.

[‡]*p* for trend was derived from the Cochran-Armitage trend test.