

## Supplementary Material

**Table S1** Geometric mean of 25(OH)D according to vitamin D related behaviours

	Total <sup>†</sup>	Geometric mean 25(OH)D, nmol/l <sup>†</sup> (Range 9.5 – 213.0 nmol/l)
<i>Time spent outside</i> <sup>†</sup>		
<3h/day	3475	48.7
≥3h/day	2563	58.7
Missing	458	50.8
<i>P value</i>		<0.001
<i>TV/PC leisure time</i>		
<3h/day	4196	54.8
≥3h/day	2048	48.6
Missing	252	49.4
<i>P value</i>		<0.001
<i>Sun- cover</i>		
Rarely	572	49.2
Most of the time	5479	53.1
Missing	445	50.9
<i>P value</i>		<0.001
<i>Blister after sunburn</i>		
Rarely	5703	52.3
Often	112	38.8
Missing	681	51.2
<i>P value</i>		<0.001
<i>Actively seeking suntan</i>		
Rarely	4656	50.2
Often	1227	64.2
Missing	613	50.3
<i>P value</i>		<0.001
<i>Vitamin D supplements</i>		
< daily	5311	51.2
≥ daily	1061	60.9
Missing	124	46.7
<i>P value</i>		<0.001
<i>Oily fish</i>		

	< weekly	4438	51.8
	≥ weekly	1937	54.7
	Missing	121	47.0
	<i>P value</i>		<0.001
<i>Margarine</i>	< weekly	2293	51.4
	≥ weekly	4008	53.4
	Missing	195	50.3
	<i>P value</i>		<0.001

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\*Based on eligible sample at 50 years (N = 6,496)

† Data obtained when participants were aged 45 years.