25-hydroxyvitamin D status and its predictors in Greek and Cypriot subsets of the UK biobank Cohort

Francesca E. Kontea, Susan A. Lanham-New and Andrea L. Darling

Supplementary Table S1. Summarizing the results of the logistic regression model caried out for all participants investigating the odds of having 25(OH)D serum levels >50nmol/L.

		n	B	SE	Wald	df	p	OR	Lower 95% CI	Upper 95% CI
Sex										
	Female	**1676**						**1.0**		
	Male	**1555**	**0.008**	**0.08**	**0.009**	**1**	**0.924**	**1.008**	**0.862**	**1.178**
Household income before tax										
	Less than 18.000	**750**			**5.07**	**4**	**0.28**	**1.0**		
	£18,000 to 30,999	**786**	**-0.178**	**0.113**	**2.486**	**1**	**0.115**	**0.837**	**0.67**	**1.044**
	£31,000 to 51,999	**840**	**-0.036**	**0.113**	**0.102**	**1**	**0.75**	**0.965**	**0.773**	**1.204**
	£52,000 to 100,000	**670**	**-0.042**	**0.121**	**0.118**	**1**	**0.731**	**0.959**	**0.756**	**1.217**
	Greater than 100,000	**185**	**-0.309**	**0.186**	**2.773**	**1**	**0.096**	**0.734**	**0.51**	**1.056**
Oily Fish Intake										
	Never	**328**			**4.618**	**5**	**0.464**	**1.0**		
	Less than once per week	**1065**	**-0.059**	**0.14**	**0.179**	**1**	**0.672**	**0.942**	**0.716**	**1.24**
	Once per week	**1304**	**-0.199**	**0.137**	**2.1**	**1**	**0.147**	**0.819**	**0.626**	**1.073**
	2-4 times per week	**502**	**-0.234**	**0.157**	**2.226**	**1**	**0.136**	**0.791**	**0.581**	**1.076**
	5-6 times per week	**25**	**-0.045**	**0.461**	**0.01**	**1**	**0.922**	**0.956**	**0.387**	**2.361**
	Once or more daily	**7**	**-21.275**	**14579.88**	**0**	**1**	**0.999**	**0**	**0**	**.**
Alcohol Consumption										
	Daily or almost daily	**658**			**14.872**	**5**	**0.011**	**1.0**		
	3-4 times per week	**803**	**-0.185**	**0.115**	**2.569**	**1**	**0.109**	**0.831**	**0.663**	**1.042**
	1-2 times per week	**858**	**-0.011**	**0.116**	**0.01**	**1**	**0.921**	**0.989**	**0.788**	**1.24**
	1-3 times per month	**363**	**0.195**	**0.146**	**1.763**	**1**	**0.184**	**1.215**	**0.912**	**1.619**

	Special occasions only	**341**	**0.297**	**0.155**	**3.684**	**1**	**0.055**	**1.345**	**0.994**	**1.821**
	Never	**208**	**0.212**	**0.179**	**1.395**	**1**	**0.237**	**1.236**	**0.87**	**1.756**
Smoking status										
	Never	**1724**			**2.907**	**2**	**0.234**	**1.0**		
	Previous	**1153**	**-0.001**	**0.085**	**0**	**1**	**0.991**	**0.999**	**0.846**	**1.18**
	Current	**354**	**0.215**	**0.132**	**2.676**	**1**	**0.102**	**1.24**	**0.958**	**1.605**
User of single Vitamin D supplement or a multivitamin/mineral										
	User	**774**						**1.0**		
	Non-user	**2457**	**0.877**	**0.092**	**90.15**	**1**	**<.001**	**2.404**	**2.006**	**2.882**
Region of Assessment center										
	North England	**1433**			**7.478**	**5**	**0.187**	**1.0**		
	South England	**586**	**-0.004**	**0.108**	**0.001**	**1**	**0.969**	**0.996**	**0.805**	**1.232**
	Wales	**47**	**0.034**	**0.331**	**0.01**	**1**	**0.919**	**1.034**	**0.541**	**1.979**
	Scotland	**259**	**0.404**	**0.156**	**6.728**	**1**	**0.009**	**1.498**	**1.104**	**2.032**
	English Midlands	**484**	**-0.029**	**0.116**	**0.063**	**1**	**0.802**	**0.971**	**0.774**	**1.218**
	London	**422**	**0.007**	**0.128**	**0.003**	**1**	**0.959**	**1.007**	**0.784**	**1.293**
Summer sun per day										
	less than 30 minutes	**141**						**1.0**		
	Over 30 minutes	**3090**	**-0.826**	**0.201**	**16.846**	**1**	**<.001**	**0.438**	**0.295**	**0.649**
Season										
	Spring	**936**			**330.472**	**3**	**<.001**	**1.0**		
	Summer	**833**	**-1.565**	**0.107**	**213.521**	**1**	**<.001**	**0.209**	**0.169**	**0.258**
	Autumn	**802**	**-1.136**	**0.105**	**116.827**	**1**	**<.001**	**0.321**	**0.261**	**0.395**
	Winter	**660**	**0.165**	**0.116**	**2.034**	**1**	**0.154**	**1.179**	**0.94**	**1.479**
Ethnicity										
	British or Irish	**3015**						**1.0**		
	Greece or Cyprus	**216**	**0.161**	**0.167**	**0.937**	**1**	**0.333**	**1.175**	**0.848**	**1.629**
	Constant		**1.088**	**0.279**	**15.191**	**1**	**<.001**	**2.969**		

Supplementary Table S2. Summarizing the results of the logistic regression model caried out for the British/Irish ethnic group investigating the odds of having 25(OH)D serum levels >50nmol/L.

		n	B	SE	Wald	df	p	OR	Lower 95% CI	Upper 95% CI
Sex										
	Female	1575						1.0		
	Male	1440	**-0.016**	**0.082**	**0.036**	**1**	**0.849**	**0.984**	**0.838**	**1.157**
Household income before tax										
	Less than 18.000	700			**6.618**	**4**	**0.158**	1.0		
	£18,000 to 30,999	750	**-0.183**	**0.116**	**2.459**	**1**	**0.117**	**0.833**	**0.663**	**1.047**
	£31,000 to 51,999	793	**-0.009**	**0.117**	**0.006**	**1**	**0.938**	**0.991**	**0.788**	**1.246**
	£52,000 to 100,000	611	**0.006**	**0.126**	**0.002**	**1**	**0.964**	**1.006**	**0.785**	**1.288**
	Greater than 100,000	161	**-0.35**	**0.197**	**3.143**	**1**	**0.076**	**0.705**	**0.478**	**1.038**
Oily Fish Intake										
	Never	317			**6.985**	**5**	**0.222**	1.0		
	Less than once per week	980	**-0.08**	**0.143**	**0.31**	**1**	**0.578**	**0.923**	**0.697**	**1.223**
	Once per week	1222	**-0.232**	**0.14**	**2.721**	**1**	**0.099**	**0.793**	**0.603**	**1.045**
	2-4 times per week	468	**-0.288**	**0.161**	**3.214**	**1**	**0.073**	**0.749**	**0.547**	**1.027**
	5-6 times per week	21	**0.379**	**0.511**	**0.551**	**1**	**0.458**	**1.461**	**0.537**	**3.978**
	Once or more daily	7	**-21.334**	**14529.22**	**0**	**1**	**0.999**	**0**	**0**	**.**
Alcohol Consumption										
	Daily or almost daily	631			**15.735**	**5**	**0.008**	1.0		
	3-4 times per week	769	**-0.208**	**0.118**	**3.117**	**1**	**0.077**	**0.812**	**0.645**	**1.023**
	1-2 times per week	807	**0.001**	**0.119**	**0**	**1**	**0.993**	**1.001**	**0.794**	**1.263**
	1-3 times per month	338	**0.169**	**0.151**	**1.251**	**1**	**0.263**	**1.184**	**0.881**	**1.591**
	Special occasions only	282	**0.31**	**0.164**	**3.599**	**1**	**0.058**	**1.364**	**0.99**	**1.88**
	Never	188	**0.261**	**0.186**	**1.96**	**1**	**0.162**	**1.298**	**0.901**	**1.871**
Smoking status										
	Never	1632			**3.48**	**2**	**0.175**	1.0		
	Previous	1066	**-0.048**	**0.088**	**0.296**	**1**	**0.587**	**0.954**	**0.803**	**1.132**
	Current	317	**0.218**	**0.138**	**2.483**	**1**	**0.115**	**1.243**	**0.948**	**1.63**
User of single Vitamin D supplement or a multivitamin/mineral										

	User	709						1.0		
	Non-user	2306	0.867	0.096	81.052	1	<.001	2.379	1.97	2.874
Region of Assessment center										
	North England	1395			5.773	5	0.329	1.0		
	South England	542	0.017	0.111	0.025	1	0.875	1.018	0.818	1.266
	Wales	41	0.028	0.352	0.006	1	0.937	1.028	0.516	2.049
	Scotland	254	0.362	0.157	5.319	1	0.021	1.436	1.056	1.954
	English Midlands	462	-0.025	0.118	0.044	1	0.834	0.976	0.774	1.23
	London	321	0.027	0.137	0.04	1	0.842	1.028	0.785	1.345
Sumer sun per day										
	less than 30 minutes	123						1.0		
	Over 30 minutes	2892	-0.745	0.212	12.33	1	<.001	0.475	0.313	0.719
Season										
	Spring	852			310.613	3	<.001	1.0		
	Summer	791	-1.551	0.111	196.268	1	<.001	0.212	0.171	0.263
	Autumn	749	-1.094	0.109	100.975	1	<.001	0.335	0.27	0.414
	Winter	623	0.227	0.12	3.592	1	0.058	1.255	0.992	1.588
Constant			1.029	0.291	12.483	1	<.001	2.799		

Supplementary Table S3. Summarizing the results of the logistic regression model caried out for the Greek/Cypriot ethnic group investigating the odds of having 25(OH)D serum levels >50nmol/L

		n	B	SE	Wald	df	p	OR	Lower 95% CI	Upper 95% CI
Sex										
	Female	101						1.0		
	Male	115	0.23	0.369	0.389	1	0.533	1.259	0.611	2.592
Household income before tax										
	Less than 18.000	50			2.798	4	0.592	1.0		
	£18,000 to 30,999	36	0.204	0.576	0.125	1	0.724	1.226	0.396	3.793
	£31,000 to 51,999	47	-0.318	0.545	0.342	1	0.559	0.727	0.25	2.115
	£52,000 to 100,000	59	-0.604	0.523	1.335	1	0.248	0.546	0.196	1.523
	Greater than 100,000	24	-0.535	0.683	0.612	1	0.434	0.586	0.154	2.236
Oily Fish Intake										
	Never	11			6.458	4	0.167	1.0		
	Less than once per week	85	1.236	0.832	2.208	1	0.137	3.44	0.674	17.554

	Once per week	82	**1.294**	**0.839**	**2.38**	**1**	**0.123**	**3.647**	**0.705**	**18.871**
	2-4 times per week	34	**1.689**	**0.905**	**3.486**	**1**	**0.062**	**5.416**	**0.919**	**31.901**
	5-6 times per week	4	**-1.511**	**1.541**	**0.962**	**1**	**0.327**	**0.221**	**0.011**	**4.519**
	Once or more Daily		**Not estimable**							
Alcohol Consumption										
	Daily or almost daily	27			**3.602**	**5**	**0.608**	1.0		
	3-4 times per week	34	**0.46**	**0.624**	**0.543**	**1**	**0.461**	**1.584**	**0.466**	**5.385**
	1-2 times per week	51	**-0.212**	**0.6**	**0.124**	**1**	**0.724**	**0.809**	**0.25**	**2.622**
	1-3 times per month	25	**0.789**	**0.692**	**1.301**	**1**	**0.254**	**2.201**	**0.567**	**8.541**
	Special occasions only	59	**0.429**	**0.602**	**0.506**	**1**	**0.477**	**1.535**	**0.471**	**4.998**
	Never	20	**0.242**	**0.787**	**0.095**	**1**	**0.758**	**1.274**	**0.272**	**5.964**
Smoking status										
	Never	92			**4.145**	**2**	**0.126**	1.0		
	Previous	87	**0.863**	**0.424**	**4.143**	**1**	**0.042**	**2.371**	**1.033**	**5.443**
	Current	37	**0.387**	**0.511**	**0.574**	**1**	**0.449**	**1.473**	**0.541**	**4.008**
User of single Vitamin D supplement or a multivitamin/mineral										
	User	65						**1.0**		
	Non-user	151	**1.118**	**0.373**	**8.979**	**1**	**0.003**	**3.057**	**1.472**	**6.351**
Region of Assessment center										
	North England	38			**0.231**	**5**	**0.999**	1.0		
	South England	44	**-0.045**	**0.6**	**0.006**	**1**	**0.941**	**0.956**	**0.295**	**3.101**
	Wales	6	**0.449**	**1.103**	**0.166**	**1**	**0.684**	**1.567**	**0.18**	**13.615**
	Scotland	5	**20.84**	**16280.09**	**0**	**1**	**0.999**	**1.12E+09**	**0**	**.**
	English Midlands	22	**-0.09**	**0.704**	**0.016**	**1**	**0.899**	**0.914**	**0.23**	**3.636**
	London	101	**-0.044**	**0.518**	**0.007**	**1**	**0.932**	**0.957**	**0.347**	**2.643**
Sumer sun per day										
	less than 30 minutes	18						**1.0**		
	Over 30 minutes	198	**-2.08**	**0.824**	**6.371**	**1**	**0.012**	**0.125**	**0.025**	**0.628**
Season										
	Spring	84			22.959	3	**<.001**	1.0		
	Summer	42	**-2.067**	**0.5**	**17.086**	**1**	**<.001**	**0.127**	**0.047**	**0.337**
	Autumn	53	**-1.783**	**0.465**	**14.731**	**1**	**<.001**	**0.168**	**0.068**	**0.418**
	Winter	37	**-0.503**	**0.497**	**1.026**	**1**	**0.311**	**0.604**	**0.228**	**1.601**

Constant	**0.848**	**1.289**	**0.433**	**1**	**0.511**	**2.335**