

**Selenium and impaired physical function in older adults. García-Esquinas E et al. Online Supplementary Material**

**Supplementary table S1:** Cross-sectional association between **whole blood selenium** and measures of impaired physical function and disability in subgroups of participants in the **NHANES**. Results are odds ratios [95% confidence interval] per two fold increase in selenium concentrations.

Blood Se [ $\mu\text{g/L}$ ]	Weakness (n=1614)			Impaired lower-extremity performance (n=1730)			Mobility limitation (n=1629)			Agility limitation (n=1703)			IADL disability (n=1584)			
	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	
Sex																
Male	165/790	0.43 [0.15; 1.24]		173/840	0.33 [0.11; 1.02]		240/779	0.38 [0.09; 1.63]		110/829	0.15 [0.02; 1.23]		137/742	0.54 [0.12; 2.40]		
Female	175/824	0.53 [0.16; 1.81]	0.77	177/890	0.67 [0.16; 2.74]	0.41	379/850	0.33 [0.10; 1.12]	0.83	165/874	0.82 [0.21; 3.19]	0.20	188/842	0.40 [0.10; 1.63]	0.78	
Age																
<70	89/805	0.57 [0.14; 2.30]		143/864	0.21 [0.06; 0.70]		256/824	0.76 [0.17; 3.38]		109/853	0.30 [0.06; 1.49]		152/815	0.20 [0.03; 1.61]		
$\geq 70$	251/809	0.37 [0.13; 1.03]	0.61	207/866	0.84 [0.22; 3.18]	0.10	363/805	0.18 [0.06; 0.52]	0.10	166/850	0.57 [0.14; 2.47]	0.53	173/769	0.78 [0.25; 2.42]	0.29	
BMI																
Under/Normal weight	91/422	0.50 [0.06; 3.96]		67/456	0.99 [0.11; 8.80]		140/433	0.21 [0.03; 0.41]		47/453	0.48 [0.06; 4.14]		78/423	0.29 [0.02; 3.52]		
Overweight	114/563	0.54 [0.12; 2.36]		105/605	1.37 [0.30; 6.39]		181/579	0.43 [0.12; 1.50]		75/600	0.36 [0.07; 1.75]		85/551	0.29 [0.02; 3.52]		
Obese	135/629	0.44 [0.12; 1.55]	0.98	178/669	0.18 [0.05; 0.60]	<0.01	298/617	0.40 [0.06; 2.49]	0.80	153/650	0.55 [0.14; 2.14]	0.91	162/610	0.80 [0.15; 4.39]	0.45	
Physical activity																
1 <sup>st</sup> tertile	173/561	0.31 [0.08; 1.17]		188/614	0.84 [0.22; 3.16]		316/559	0.26 [0.08; 0.91]		165/601	0.70 [0.16; 3.00]		175/540	0.88 [0.27; 2.85]		
2 <sup>nd</sup> tertile	111/557	0.75 [0.19; 3.01]		104/595	0.13 [0.03; 0.49]		188/564	0.17 [0.04; 0.68]		77/587	0.73 [0.15; 3.61]		93/555	0.11 [0.02; 0.51]		
3 <sup>rd</sup> tertile	56/494	0.82 [0.17; 4.05]	0.50	58/521	1.32 [0.16; 11.2]	0.05	115/506	1.38 [0.21; 9.22]	0.14	33/515	0.07 [0.00; 0.77]	0.25	57/489	0.83 [0.03; 21.2]	0.11	
Chronic disease																
No	14/169	0.57 [0.01; 33.2]		14/182	0.95 [0.05; 17.8]		28/178	18.0 [0.15; 216.9]		8/181	0.38 [0.03; 5.58]		9/165	23.5 [0.00; 6953]		
Yes	326/1445	0.55 [0.23; 1.35]	0.98	336/1548	0.50 [0.18; 1.40]	0.97	591/1451	0.32 [0.13; 0.78]	0.09	267/1522	0.46 [0.19; 1.13]	0.88	316/1419	0.44 [0.15; 1.27]	0.32	
Diet quality																
Excellent/Very good	133/622	1.05 [0.28; 4.02]		104/668	0.37 [0.09; 1.59]		196/631	0.35 [0.07; 1.63]		84/663	0.16 [0.02; 1.01]		99/612	0.61 [0.08; 4.62]		
Good	135/686	0.20 [0.06; 0.71]		140/733	0.47 [0.07; 3.02]		259/692	0.52 [0.17; 1.58]		105/722	0.48 [0.12; 1.96]		129/675	0.47 [0.10; 2.16]		
Fair/Poor	72/306	0.67 [0.14; 3.28]	0.15	106/329	0.58 [0.18; 1.92]	0.88	164/306	0.20 [0.04; 1.08]	0.56	86/318	0.93 [0.19; 4.70]	0.47	97/297	0.33 [0.06; 1.99]	0.90	
Protein intake (g/day)																
<60	155/585	0.25 [0.07; 0.87]		147/637	0.68 [0.17; 2.71]		274/598	0.15 [0.04; 0.51]		130/627	0.54 [0.10; 2.75]		139/584	0.15 [0.03; 0.65]		
60-80	97/523	1.41 [0.30; 6.71]		115/554	0.54 [0.08; 3.74]		202/518	1.09 [0.25; 4.78]		79/546	0.28 [0.03; 3.00]		104/512	3.42 [0.64; 18.31]		
>80	88/506	0.58 [0.12; 2.75]	0.25	88/539	0.22 [0.02; 2.90]	0.61	143/513	0.43 [0.03; 7.10]	0.19	66/530	0.59 [0.06; 6.27]	0.88	82/488	0.36 [0.02; 8.29]	0.04	
Protein intake (g per kg of weight/day)																
$\leq 1.2$	270/1279	0.53 [0.23; 1.20]		296/1364	0.50 [0.19; 1.33]		522/1278	0.28 [0.13; 0.62]		236/1342	0.40 [0.11; 1.40]		260/1243	0.41 [0.16; 1.05]		
$>1.2$	70/335	0.26 [0.03; 2.44]	0.53	54/367	0.38 [0.02; 6.50]	0.84	97/351	0.94 [0.05; 18.8]	0.42	39/362	0.83 [0.09; 7.94]	0.60	65/341	0.50 [0.02; 10.72]	0.89	
RDA recommendations for Se																
Yes	304/1478	0.56 [0.22; 1.43]		315/1584	0.49 [0.18; 1.35]		546/1491	0.50 [0.19; 1.34]		239/1560	0.63 [0.20; 1.96]		292/1452	0.78 [0.24; 2.50]		
No (<55)	36/136	0.20 [0.01; 3.36]	0.52	35/146	0.60 [0.07; 5.52]	0.85	73/138	0.04 [0.01; 0.30]	0.03	36/143	0.17 [0.02; 1.57]	0.24	33/132	0.01 [0.00; 0.13]	<0.01	
RDA recommendations for vitamins																
<5	123/683	0.56 [0.17; 1.84]		130/732	0.88 [0.16; 4.83]		221/685	0.59 [0.12; 2.96]		101/721	0.63 [0.09; 4.69]		127/673	1.24 [0.28; 5.53]		
$\geq 5$	217/931	0.45 [0.17; 1.16]	0.75	220/998	0.38 [0.14; 1.02]	0.3574	398/944	0.25 [0.10; 0.62]	0.33	174/982	0.39 [0.10; 1.49]	0.70	198/911	0.23 [0.08; 0.64]	0.03	
Adequate intake																
Vitamin A	Yes	67/417	1.11 [0.26; 4.80]		74/442	0.96 [0.14; 6.45]		138/413	1.32 [0.15; 11.6]		57/435	0.50 [0.05; 5.00]		79/414	1.59 [0.20; 12.79]	
	No	266/1197	0.34 [0.14; 0.82]	0.13	276/1288	0.41 [0.15; 1.08]	0.36	481/1216	0.20 [0.08; 0.50]	0.13	218/1268	0.44 [0.14; 1.39]	0.93	246/1170	0.26 [0.09; 0.79]	0.13
Vitamin B1	Yes	215/1079	0.79 [0.31; 2.04]		217/1157	1.27 [0.42; 3.85]		381/1094	0.48 [0.14; 1.61]		160/1139	0.59 [0.11; 3.08]		199/1056	1.05 [0.23; 4.86]	
	No	125/535	0.21 [0.05; 0.88]	0.12	133/573	0.14 [0.04; 0.52]	<0.01	238/535	0.21 [0.05; 0.80]	0.35	115/564	0.31 [0.08; 1.23]	0.58	126/528	0.12 [0.03; 0.52]	0.07
Vitamin B2	Yes	271/1322	0.66 [0.25; 1.70]		286/1421	0.64 [0.23; 1.77]		489/1335	0.45 [0.15; 1.34]		220/1396	0.54 [0.16; 1.80]		260/1300	0.58 [0.18; 1.85]	
	No	69/292	0.14 [0.02; 0.89]	0.15	64/309	0.17 [0.02; 1.24]	0.20	130/294	0.07 [0.01; 0.62]	0.17	55/307	0.22 [0.03; 1.94]	0.46	65/284	0.13 [0.01; 1.09]	0.23
Vitamin B3	Yes	257/1276	0.87 [0.30; 2.49]		262/1357	0.55 [0.23; 1.30]		442/1279	0.48 [0.18; 1.32]		188/1337	0.52 [0.12; 2.25]		246/1250	1.20 [0.43; 3.35]	
	No	83/338	0.12 [0.02; 0.66]	0.06	88/373	0.44 [0.09; 2.20]	0.73	177/350	0.15 [0.03; 0.73]	0.19	87/366	0.36 [0.06; 2.30]	0.77	79/334	0.03 [0.00; 0.24]	<0.01

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Blood Se [µg/L]	Weakness (n=1614)			Impaired lower-extremity performance (n=1730)			Mobility limitation (n=1629)			Agility limitation (n=1703)			IADL disability (n=1584)		
	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*
Vitamin B6	Yes	176/941 0.55 [0.17; 1.71]		189/1005 0.64 [0.17; 2.43]			323/945 0.55 [0.13; 2.39]			145/992 0.66 [0.16; 2.64]			182/928 1.32 [0.34; 5.10]		
	No	164/673 0.42 [0.15; 1.24]	0.72	161/725 0.41 [0.13; 1.26]	0.55		296/684 0.21 [0.07; 0.68]	0.33		130/711 0.33 [0.06; 1.81]	0.55		143/656 0.13 [0.04; 0.44]		0.01
Vitamin B12	Yes	249/1238 0.71 [0.22; 2.30]		260/1331 0.71 [0.26; 1.93]			461/1251 0.37 [0.11; 1.23]			210/1308 0.40 [0.09; 1.81]			249/1219 0.65 [0.22; 1.91]		
	No	91/376 0.17 [0.04; 0.72]	0.16	90/399 0.22 [0.04; 1.15]	0.16		158/378 0.29 [0.07; 1.14]	0.80		65/395 0.63 [0.09; 4.68]	0.74		76/365 0.17 [0.03; 1.08]		0.16
Vitamin C	Yes	134/658 0.26 [0.06; 1.11]		135/709 0.36 [0.08; 1.73]			229/666 0.16 [0.04; 0.63]			97/696 0.13 [0.02; 0.83]			130/652 0.63 [0.12; 3.23]		
	No	206/956 0.71 [0.27; 1.87]	0.23	215/1021 0.59 [0.19; 1.77]	0.57		390/963 0.53 [0.16; 1.75]	0.19		178/1007 0.85 [0.21; 3.42]	0.12		195/932 0.35 [0.10; 1.20]		0.54
Vitamin D	Yes	12/45 -		6/48 -			13/46 -			7/48 -			11/43 -		
	No	328/1569 -	-	344/1682 -	-		606/1583 -	-		268/1655 -	-		314/1541 -		
Vitamin E	Yes	15/116 0.18 [0.00; 3.57]		22/125 0.59 [0.01; 40.8]			28/113 0.05 [0.00; 11.5]			15 /123 0.03 [0.00; 8.27]			23/119 0.03 [0.00; 0.43]		
	No	325/1498 0.51 [0.21; 1.25]	0.54	328/1605 0.51 [0.20; 1.30]	0.94		591/1516 0.39 [0.18; 0.88]	0.42		260/1580 0.55 [0.20; 1.53]	0.29		302/1465 0.57 [0.19; 1.71]		0.03
Folate	Yes	103/570 0.33 [0.11; 0.97]		108/614 1.11 [1.33; 9.28]			182/571 0.30 [0.04; 2.16]			89/607 0.67 [0.14; 3.15]			97/561 0.72 [0.10; 5.28]		
	No	237/1044 0.60 [0.20; 1.82]	0.44	242/1116 0.32 [0.12; 0.85]	0.29		437/1058 0.38 [0.16; 0.89]	0.83		186/1096 0.38 [0.10; 1.46]	0.57		228/1023 0.33 [0.13; 0.84]		0.46

IADL: Instrumental Activities of Daily Living. OR: Odds Ratio. CI: Confidence Interval. \*P-values for interaction were obtained from likelihood ratio test. All models are adjusted as model B in table 2.

**Supplementary table S2:** Cross-sectional association between **whole blood selenium** and measures of impaired physical function and disability by subgroups of participants in the **ENRICA**. Results are odds ratios [95% confidence interval] per two-fold increase in selenium concentrations.

Blood Se [ $\mu\text{g/L}$ ]	Weakness (n=2540)			Impaired lower-extremity function (n=2530)			Mobility limitation (n=2520)			Agility limitation (n=2520)			Frailty (n=2548)			IADL disability (n=2534)			
	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	
Sex																			
Male	232/1196	0.45 [0.23;0.87]		260/1194	1.12 [0.60;2.08]		258/1189	0.67 [0.35;1.27]		533/1189	0.77 [0.45;1.33]		236/1199	0.20 [0.09;0.43]		45/1196	1.01 [0.27;3.82]		
Female	265/1344	0.64 [0.36;1.13]	0.43	416/1336	0.40 [0.24;0.68]	0.01	704/1331	0.49 [0.30;0.79]	0.23	909/1331	0.76 [0.46;1.25]	0.96	268/1349	0.31 [0.16;0.61]	0.40	144/1338	0.22 [0.10;0.49]	0.05	
Age																			
<70	116/944	0.59 [0.25;1.37]		163/944	0.63 [0.30;1.32]		304/942	0.63 [0.34;1.20]		461/942	0.97 [0.53;1.76]		130/946	0.27 [0.10;0.70]		40/944	0.78 [0.21;2.84]		
≥70	381/1596	0.37 [0.23;0.61]	0.36	516/1589	0.45 [0.28;0.71]	0.45	660/1578	0.45 [0.28;0.71]	0.38	981/1578	0.57 [0.36;0.90]	0.17	374/1602	0.21 [0.12;0.38]	0.59	151/1593	0.14 [0.07;0.31]	0.03	
BMI																			
<30	365/1879	0.65 [0.39;1.08]		434/1872	0.69 [0.43;1.11]		622/1864	0.60 [0.38;0.94]		949/1864	0.72 [0.48;1.10]		283/1883	0.29 [0.15;0.54]		111/1875	0.36 [0.16;0.84]		
≥30	132/661	0.33 [0.14;0.78]	0.17	242/658	0.44 [0.22;0.91]	0.30	340/656	0.43 [0.21;0.89]	0.45	493/656	0.94 [0.43;2.08]	0.56	221/665	0.22 [0.09;0.51]	0.62	78/659	0.26 [0.09;0.78]	0.63	
Physical activity																			
1 <sup>st</sup> tertile	209/848	0.51 [0.26;1.00]		286/836	0.50 [0.27;0.93]		381/832	0.84 [0.46;1.54]		526/832	0.76 [0.41;1.40]		251/850	0.21 [0.10;0.44]		114/844	0.22 [0.09;0.55]		
2 <sup>nd</sup> tertile	148/847	0.49 [0.23;1.06]		213/847	0.69 [0.35;1.36]		312/846	0.44 [0.23;0.86]		489/845	0.89 [0.47;1.69]		161/850	0.25 [0.10;0.58]		46/845	0.25 [0.07;0.87]		
3 <sup>rd</sup> tertile	140/845	0.69 [0.30;1.58]	0.80	177/847	0.69 [0.32;1.47]	0.72	271/844	0.38 [0.19;0.78]	0.18	427/843	0.66 [0.35;1.27]	0.80	92/848	0.46 [0.15;1.46]	0.50	29/845	1.73 [0.37;8.08]	0.07	
Chronic disease																			
≤1	223/1360	0.46 [0.25;0.86]		288/1357	0.59 [0.33;1.02]		367/1352	0.41 [0.24;0.70]		600/1352	0.82 [0.51;1.30]		107/1363	0.17 [0.07;0.40]		62/1356	0.28 [0.10;0.84]		
>1	274/1180	0.55 [0.30;0.99]	0.69	388/1173	0.58 [0.33;1.00]	0.94	595/1168	0.67 [0.39;1.13]	0.19	842/1168	0.66 [0.37;1.18]	0.57	397/1185	0.29 [0.16;0.51]	0.30	127/1178	0.30 [0.13;0.69]	0.93	
1 <sup>st</sup> tertile	184/865	0.63 [0.18;0.78]		252/863	0.53 [0.27;1.03]		326/856	0.58 [0.30;1.12]		481/856	0.66 [0.35;1.25]		188/870	0.13 [0.06;0.32]		79/864	0.30 [0.10;0.81]		
2 <sup>nd</sup> tertile	248/1234	0.67 [0.36;1.26]		322/1227	0.60 [0.33;1.08]		505/1224	0.54 [0.31;0.93]		719/1224	0.76 [0.44;1.30]		251/1237	0.47 [0.23;0.97]		94/1229	0.31 [0.12;0.84]		
3 <sup>rd</sup> tertile	65/441	0.68 [0.24;1.94]	0.43	102/440	0.76 [0.31;1.90]	0.81	131/440	0.41 [0.16;1.03]	0.83	242/440	0.99 [0.44;2.25]	0.74	65/441	0.13 [0.04;0.49]	0.05	16/441	0.34 [0.04;2.60]	0.99	
Protein intake (g/day)																			
<80	212/847			271/840	0.44 [0.23;0.84]		388/836	0.56 [0.30;1.04]		515/836	0.97 [0.52;1.83]		193/850			94/846			
80-95	145/847	0.70 [0.32;1.56]		228/844	0.51 [0.25;1.03]		319/842	0.43 [0.22;0.84]		463/842	0.57 [0.30;1.10]		161/849	0.15 [0.06;0.36]		48/845	0.11 [0.02;0.45]		
>95	140/846	0.31 [0.14;0.70]	0.28	177/846	0.94 [0.46;1.91]	0.27	255/842	0.60 [0.31;1.18]	0.75	464/842	0.81 [0.44;1.52]	0.50	150/849	0.46 [0.19;1.13]	0.20	47/843	0.75 [0.21;2.59]	0.14	
Protein intake																			
≤1.2/kg weight	218/1129			366/1124	0.56 [0.32;0.97]		477/1123	0.50 [0.29;0.88]		290/1134	0.79 [0.45;1.39]		290/1134			102/1124			
>1.2 kg weight	279/1411	0.51 [0.28;0.91]	0.90	310/1406	0.60 [0.34;1.04]	0.86	485/1397	0.53 [0.32;0.90]	0.88	214/1414	0.79 [0.48;1.28]	0.99	214/1414	0.18 [0.08;0.40]	0.22	87/1410	0.36 [0.14;0.94]	0.52	
RDA recommendations for Se																			
Yes	494/2531	-		673/2522	-		959/2512	-		1435/2512	-		500/2539	-		187/2525	-		
No	3/9	-		3/8	-		3/8	-		7/8	-		4/9	-		2/9	-		
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RDA recommendations for vitamins																			
≤5	221/910	0.58 [0.29;1.16]		278/905	0.56 [0.34;0.92]		347/899	0.53 [0.33;0.85]		508/899	0.72 [0.38;1.36]		206/912	0.19 [0.08;0.45]		77/907	0.28 [0.09;0.87]		
>5	276/1630	0.53 [0.30;0.93]	0.83	398/1625	0.70 [0.36;1.34]	0.71	615/1621	0.57 [0.29;1.10]	0.92	934/1621	0.79 [0.50;1.24]	0.81	298/1636	0.30 [0.16;0.57]	0.41	112/1627	0.34 [0.15;0.78]	0.77	
Adequate intake																			
Vitamin A	Yes	149/886	0.55 [0.26;1.14]		227/882	0.51 [0.26;0.97]		383/882	0.62 [0.34;1.12]		546/882	0.96 [0.53;1.76]		189/890	0.37 [0.17;0.81]		70/884	0.59 [0.21;1.58]	
	No	348/1654	0.54 [0.31;0.92]	0.97	449/1648	0.65 [0.40;1.07]	0.54	579/1638	0.50 [0.30;0.82]	0.55	896/1638	0.67 [0.42;1.07]		315/1658	0.20 [0.10;0.39]	0.24	119/1650	0.21 [0.09;0.50]	0.12
Vitamin B1	Yes	325/1841	0.50 [0.30;0.85]		461/1833	0.58 [0.36;0.93]		682/1830	0.53 [0.34;0.83]		1048/1830	0.76 [0.49;1.17]		355/1847	0.32 [0.17;0.58]		132/1837	0.32 [0.15;0.71]	
	No	172/699	0.63 [0.30;1.38]	0.60	215/697	0.63 [0.30;1.33]	0.86	280/690	0.58 [0.28;1.22]	0.75	394/690	0.78 [0.38;1.61]		149/701	0.15 [0.06;0.39]	0.19	57/697	0.33 [0.09;1.19]	0.99
Vitamin B2	Yes	415/2218	0.51 [0.32;0.84]		596/2210	0.54 [0.35;0.84]		850/2203	0.52 [0.34;0.79]		1276/2203	0.76 [0.50;1.15]		435/226	0.24 [0.14;0.42]		164/2213	0.28 [0.14;0.59]	
	No	82/322	0.67 [0.25;1.79]	0.65	80/320	0.98 [0.36;2.68]	0.28	112/317	0.69 [0.26;1.84]	0.61	151/166	0.79 [0.32;1.95]		69/322	0.38 [0.11;1.31]	0.52	25/321	0.66 [0.12;3.69]	0.38
Vitamin B3	Yes	418/2308	0.56 [0.35;0.90]		584/2299	0.59 [0.38;0.90]		855/2296	0.53 [0.35;0.79]		1306/2296	0.74 [0.50;1.10]		432/2316	0.25 [0.14;0.43]		158/2303	0.29 [0.14;0.60]	
	No	79/232	0.49 [0.15;1.54]	0.89	92/231	0.76 [0.25;2.34]	0.67	107/224	0.84 [0.26;2.73]	0.46	136/224	1.06 [0.32;3.48]		72/232	0.47 [0.12;1.84]	0.52	31/189	0.60 [0.11;3.26]	0.43

	Weakness (n=2540)			Impaired lower-extremity function (n=2530)			Mobility limitation (n=2520)			Agility limitation (n=2520)			Frailty (n=2548)			IADL disability (n=2534)			
Blood Se [µg/L]	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int*	n/total	OR [95%CI]	p-int	
Vitamin B6	Yes	372/2125	0.55 [0.34;0.90]	0.99	525/2117	0.59 [0.38;0.92]	0.99	785/2112	0.51 [0.34;0.78]	0.45	1208/2112	0.71 [0.47;1.06]	0.39	390/2131	0.27 [0.15;0.48]	0.70	135/2120	0.28 [0.13;0.60]	
	No	125/415	0.55 [0.21;1.44]	0.99	151/413	0.66 [0.26;1.68]	0.82	177/408	0.77 [0.29;2.04]	0.45	234/408	1.16 [0.44; 3.07]	-	114/417	0.21 [0.06;0.70]	0.70	54/414	0.55 [0.14;2.19]	0.40
Vitamin B12	Yes	473/2446	0.52 [0.33;0.82]	0.99	652/2437	0.61 [0.40;0.92]	0.99	914/2427	0.54 [0.36;0.80]	0.45	1384/2427	0.82 [0.56;1.20]	0.48	484/2454	0.23 [0.13;0.39]	0.70	181/2441	-	-
	No	24/94	0.99 [0.16;6.03]	0.34	24/93	0.12 [0.02;1.00]	0.14	48/93	0.77 [0.14;4.28]	0.68	58/93	0.14 [0.02;0.93]	-	20/94	1.54 [0.15;15.5]	0.12	8/93	-	-
Vitamin C	Yes	395/2086	0.50 [0.31;0.81]	0.99	543/2077	0.61 [0.39;0.95]	0.99	801/2071	0.48[0.32;0.73]	0.45	1194/2071	0.65 [0.43;0.98]	0.40	401/2092	0.28 [0.16;0.49]	0.70	152/2083	0.32 [0.15;0.67]	
	No	102/454	0.77 [0.30;2.02]	0.42	133/453	0.57 [0.23;1.43]	0.90	161/449	1.02 [0.41;2.55]	0.23	248/449	1.73 [0.72;4.15]	-	103/456	0.17 [0.05;0.56]	0.44	37/451	0.32 [0.06;1.57]	0.98
Vitamin D	Yes	2/4	-	-	1/4	-	-	1/4	-	-	3/4	-	-	0/4	-	-	189/2530	-	-
	No	495/2536	-	-	675/2526	-	-	961/2516	-	-	1439/2516	-	-	34/223	1.22 [0.21;7.05]	-	17/223	0.99 [0.11;8.57]	
Vitamin E	Yes	45/223	0.33 [0.08;1.40]	0.99	54/223	0.30 [0.07;1.20]	0.99	69/222	1.39 [0.39;4.94]	0.45	135/222	1.69 [0.50;5.67]	0.39	470/2325	0.23 [0.13;0.39]	0.07	172/2311	0.29 [0.14;0.60]	0.28
	No	452/2317	0.56 [0.36;0.89]	0.48	622/2307	0.63 [0.42;0.96]	0.34	893/2298	0.50 [0.33;0.75]	0.12	1307/2298	0.70 [0.47;1.04]	0.17	72/420	1.69 [0.22;2.17]	-	15/418	0.20 [0.02;1.88]	
Folate	Yes	64/418	0.44 [0.14;1.32]	0.99	79/417	0.78 [0.29;2.07]	0.99	133/419	0.59 [0.25;1.40]	0.99	230/419	1.18 [0.52;2.67]	-	432/2128	0.21 [0.12;0.37]	0.07	174/2116	0.34 [0.17;0.68]	0.65
	No	433/2122	0.57 [0.35;0.91]	0.68	597/2113	0.57 [0.37;0.89]	0.60	829/2101	0.53 [0.35;0.82]	0.82	1212/2101	0.68 [0.45;1.04]	0.24	-	-	-	-	-	-

IADL: Instrumental Activities of Daily Living. OR: Odds Ratio. CI: Confidence Interval. \*P-values for interaction were obtained from likelihood ratio test. All models are adjusted as model B in table 2.