

Supplementary table

Table S1 Longitudinal association of sarcopenia and cognitive impairment

Exposure	Unadjusted model			Fully adjusted model ³		
	b	Crude RR ² (95% CI)	P value	b	Adjusted RR ² (95% CI)	P value
Sarcopenia						
No		1			1	
Yes	0.76	2.13(1.46-3.09)	<0.001	0.59	1.80(1.18-2.75)	0.01
Age						
60-69		1			1	
70-79	0.19	1.21(0.95-1.53)	0.12	0.10	1.10(0.86-1.41)	0.45
≥80	0.71	2.04(1.5-2.78)	<0.001	0.27	1.3(1.1-1.88)	0.02
Gender						
Male		1			1	
Female	0.18	1.19(0.96-1.48)	0.11	0.15	1.16(0.92-1.46)	0.22
PASE Quartiles ¹						
Q4		1			1	
Q3	0.06	1.06(0.72-1.57)	0.77	0.01	1.01(0.68-1.5)	0.97
Q2	0.44	1.56(1.07-2.27)	0.02	0.37	1.44(0.98-2.12)	0.06
Q1	0.88	2.42(1.74-3.36)	<0.001	0.63	1.87(1.32-2.66)	<0.001
Depressive symptoms						
No		1			1	
Yes	0.77	2.15(1.68-2.75)	<0.001	0.74	2.10(1.63-2.7)	<0.001
Chronic pain						
No		1			1	
Yes	0.54	1.72(1.35-2.19)	<0.001	0.33	1.39(1.08-1.79)	0.01
Visual Impairment						
No		1			1	
Yes	0.20	1.22(0.97-1.53)	0.09	0.02	1.02(0.8-1.3)	0.86
Hearing Impairment						
No		1			1	
Yes	0.53	1.69(1.25-2.28)	<0.001	0.31	1.37(1.05-1.91)	0.04

¹ Q: Quartile

² RR : Relative Risk

³Fully adjusted model, adjusted for age, gender, physical activities, depressive symptoms, chronic pain visual and hearing impairment.

Table S2 Longitudinal association of severe sarcopenia and cognitive impairment

Exposure	Unadjusted model			Fully adjusted model ³		
	b	Crude RR ² (95% CI)	P value	b	Adjusted RR ² (95% CI)	P value
Severe Sarcopenia						
No		1			1	
Yes	1.05	2.85(1.95-4.15)	<0.001	0.77	2.01(1.24-3.27)	<0.001
Age						
60-69		1			1	
70-79	0.18	1.2(0.95-1.5)	0.12	0.12	1.12(0.88-1.43)	0.34
≥80	0.66	1.94(1.43-2.63)	<0.001	0.29	1.34(0.92-1.96)	0.13
Gender						
Male		1			1	
Female	0.23	1.26(1.02-1.55)	<0.001	0.31	1.36(1.05-1.76)	0.02
PASE Quartiles ¹						
Q4		1			1	
Q3	0.01	1.01(0.69-1.48)	0.96	-0.08	0.92(0.63-1.36)	0.69
Q2	0.42	1.52(1.06-2.18)	0.02	0.32	1.38(0.95-1.99)	0.09
Q1	0.86	2.37(1.72-3.25)	<0.001	0.74	2.1(1.5-2.94)	<0.001
Depressive symptoms						
No		1			1	
Yes	0.77	2.15(1.68-2.75)	<0.001	0.73	2.09(1.62-2.68)	<0.001
Chronic pain						
No		1			1	
Yes	0.54	1.72(1.35-2.19)	<0.001	0.33	1.39(1.08-1.79)	0.01
Visual Impairment						
No		1			1	
Yes	0.19	1.21(0.97-1.51)	0.09	0.10	1.11(0.88-1.4)	0.38
Hearing Impairment						
No		1			1	
Yes	0.51	1.66(1.24-2.22)	<0.001	0.37	1.45(1.04-2)	0.03

¹ Q: Quartile

² RR : Relative Risk

³Fully adjusted model, adjusted for age, gender, physical activities, depressive symptoms, chronic pain visual and hearing impairment.