

Supplementary materials

Supplementary Table 1 Risk factors of the prevalence and incidence of possible sarcopenia (including those with cognitive, psychiatric disorders or cancer)

Risk factors	Logistics regression model (n=1943)				Proportional hazard model (n=695)			
	Adjusted OR	95% CI		P-value	Adjusted HR	95% CI		P-value
		Lower	Upper			Lower	Upper	
Gender				0.219				0.623
Female	1				1			
Male	0.816	0.590	1.129		1.113	0.726	1.706	
Age				<0.001				<0.001
60-70	1				1			
70-80	1.746	1.327	2.298		1.586	1.121	2.246	
80 and above	3.725	1.860	7.462		4.185	1.777	9.858	
Education				<0.001				0.465
Illiteracy	1				1			
Primary school	0.604	0.468	0.780		0.830	0.600	1.147	
Secondary school	0.554	0.375	0.818		0.760	0.440	1.313	
High school and above	0.280	0.162	0.483		0.607	0.300	1.231	
Marriage				0.348				0.499
Married	1				1			
Single, divorced or widowed	1.145	0.863	1.520		0.859	0.553	1.334	
Residence				0.634				0.151
Urban	1				1			
Rural	1.061	0.830	1.357		1.267	0.917	1.750	
Physical activity				<0.001				0.607
Inactive	1				1			
Moderate	0.607	0.427	0.864		1.215	0.751	1.964	
High	0.466	0.351	0.618		1.011	0.680	1.504	
Smoking status				0.667				0.862
Never	1				1			
Ever but quit	1.111	0.726	1.702		1.066	0.578	1.964	
Current smoke	1.161	0.837	1.611		0.933	0.587	1.482	
Drinking status				0.434				0.501
Never	1				1			
Ever but quit	0.992	0.688	1.432		0.806	0.503	1.289	
Current drink	0.833	0.622	1.114		0.819	0.566	1.184	
Depression				<0.001				0.036
No	1				1			

Yes	1.696	1.336	2.155		1.381	1.022	1.866	
BMI				0.966				0.251
Underweight	0.987	0.660	1.478		1.537	1.006	2.348	
Normal	1				1			
Overweight	0.960	0.707	1.304		1.047	0.722	1.519	
Obesity	0.933	0.712	1.224		1.105	0.757	1.615	
Multimorbidity				0.292				0.261
No	1				1			
Yes	1.131	0.900	1.421		1.186	0.881	1.598	

Supplementary Table 2 Risk factors of the prevalence and incidence of possible sarcopenia using imputed dataset

Risk factors	Logistics regression model (n=4866)				Proportional hazard model (n=1754)			
	Adjusted OR	95% CI		P-value	Adjusted HR	95% CI		P-value
		Lower	Upper			Lower	Upper	
Gender				0.467				0.047
Female	1				1			
Male	1.086	0.869	1.356		1.303	1.003	1.691	
Age				<0.001				<0.001
60-70	1				1			
70-80	2.133	1.754	2.593		1.808	1.433	2.282	
80 and above	4.457	2.838	6.998		3.712	2.148	6.414	
Education				<0.001				0.002
Illiteracy	1				1			
Primary school	0.663	0.556	0.789		0.719	0.579	0.892	
Secondary school	0.527	0.403	0.687		0.585	0.410	0.837	
High school and above	0.245	0.166	0.361		0.520	0.310	0.871	
Marriage				0.273				0.127
Married	1				1			
Single, divorced or widowed	1.113	0.919	1.349		1.229	0.943	1.601	
Residence				0.073				0.034
Urban	1				1			
Rural	1.173	0.985	1.397		1.279	1.018	1.607	
Physical activity				<0.001				0.806
Inactive	1				1			
Moderate	0.806	0.584	1.111		1.081	0.677	1.725	
High	0.576	0.424	0.781		0.956	0.630	1.451	
Smoking status				0.348				0.102
Never	1				1			
Ever but quit	0.846	0.602	1.189		0.799	0.564	1.132	
Current smoke	0.853	0.683	1.065		0.757	0.584	0.981	
Drinking status				0.008				0.481
Never	1				1			
Ever but quit	1.018	0.804	1.288		0.938	0.691	1.274	
Current drink	0.739	0.604	0.904		0.867	0.687	1.094	
Depression				<0.001				0.043
No	1				1			
Yes	1.550	1.296	1.855		1.278	1.007	1.622	

BMI				0.236			0.091
Underweight	1.196	0.925	1.547		1.373	1.027	1.835
Normal	1				1		
Overweight	0.879	0.721	1.072		0.895	0.700	1.044
Obesity	0.918	0.706	1.364		1.087	0.748	1.578
Multimorbidity				0.372			0.165
No	1				1		
Yes	1.074	0.917	1.260		1.149	0.945	1.398