

**Table S1.** The effect of frailty, geriatric syndromes, and other social demographic factors on Physical Health (QoL).

	Linear regression models								
	Univariable models			Multivariable model 1			Multivariable model 2		
	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value
<b>Frailty</b>									
Pre frail vs Non-frail	-1.93 (0.40)	-2.73, -1.13	<0.001	-1.37 (0.36)	-2.09, -0.64	<0.001	-1.34 (0.38)	-2.10, -0.58	0.001
Frail vs Non-frail	-3.92 (0.41)	-4.74, -3.11	<0.001	-2.35 (0.41)	-3.16, -1.54	<0.001	-2.31 (0.43)	-3.17, -1.45	<0.001
<b>Cognitive function<sup>a</sup> (Moca)</b>									
Dysfunction vs Normal (<26 vs $\geq$ 26)	-2.16 (0.48)	-3.11, -1.21	<0.001	-0.45 (0.39)	-1.23, 0.32	0.248	-0.44 (0.41)	-1.26, 0.37	0.289
<b>Depression (GDS)</b>									
Mild vs Normal	-1.87 (0.30)	-2.47, -1.27	<0.001	-0.95 (0.28)	-1.50, -0.38	0.001	-1.00 (0.29)	-1.58, -0.42	0.001
Severe vs Normal	-3.80 (0.42)	-4.64, -2.97	<0.001	-2.46 (0.39)	-3.23, -1.69	<0.001	-2.47 (0.41)	-3.29, -1.66	<0.001
<b>Comorbidity<sup>b</sup> (CCI)</b>									
Severe (CCI $\geq$ 5) vs Mild	-0.76 (0.35)	-1.45, -0.075	0.030	-1.71 (0.26)	-0.69, 0.35	0.519	-0.08 (0.31)	-0.69, 0.53	0.793
<b>Disability in ADL<sup>c</sup> (Barthel)</b>									
Semi-dependent vs Independent	-1.95 (0.54)	-3.02, -0.87	<0.001	0.07 (0.45)	-0.82, 0.98	0.868	-0.02 (0.47)	-0.96, 0.91	0.968
Dependent vs Independent	-2.99 (0.59)	-4.15, -1.82	<0.001	-0.40 (0.53)	-1.46, 0.65	0.452	-0.49 (0.55)	-1.58, 0.59	0.370
<b>Homebound status<sup>d</sup></b>									
Semi-homebound vs Non-homebound	-2.14 (0.38)	-2.89, -1.38	<0.001	-0.84 (0.38)	-1.59, -0.08	0.029	-0.63 (0.40)	-1.42, 0.15	0.115
Homebound vs Non-homebound	-3.53 (0.36)	-4.25, -2.81	<0.001	-1.86 (0.38)	-2.61, -1.09	<0.001	-1.58 (0.41)	-2.40, -0.76	<0.001
<b>CVD*</b>									
Yes vs No	-0.51 (0.32)	-1.15, 0.12	0.109	-	-	-	-0.14 (0.29)	-0.72, 0.43	0.624
<b>Age (years)</b>									
$\geq$ 80 vs <80	-1.12 (0.31)	-1.74, -0.51	<0.001	-	-	-	-0.39 (0.27)	-0.94, 0.15	0.154
<b>Gender</b>									
Male vs Female	0.87 (0.32)	0.23, 1.51	0.008	-	-	-	-0.33 (0.30)	-0.64, 0.57	0.915
<b>Annual individual Income</b>									
>4500 vs <4500	0.49 (0.32)	-0.14, 1.14	0.131	-	-	-	-0.28 (0.25)	-0.78, 0.23	0.278
<b>Smoking</b>									
Current vs Never	-0.48 (0.56)	-1.60, 0.62	0.388	-	-	-	-0.46 (0.49)	-1.43, 0.52	0.355
Former vs Never	0.84 (0.34)	0.15, 1.53	0.017	-	-	-	0.11 (0.31)	-0.50, 0.72	0.718
<b>Educational Level</b>									
Highschool vs Uneducated	1.49 (0.48)	0.54, 2.45	0.002	-	-	-	0.26 (0.38)	-0.49, 1.02	0.492
Bachelor/MSc/PhD vs Uneducated	1.47 (0.63)	0.23, 2.71	0.020	-	-	-	0.46 (0.48)	-0.49, 1.42	0.340

Notes: <sup>a</sup>Cognitive Function: MoCA<26 is indicative of cognitive dysfunction; <sup>b</sup>Comorbidity refers to the mean values of the CCI index and not to the actual number of illnesses; <sup>c</sup>Disability in ADL refers to performing Activities of Daily Living (ADL). Barthel  $\leq$ 10 indicates that the person is dependent or “disabled”; <sup>d</sup>Homebound status refers to the ability of a person to leave home during the last month due to their illnesses. Homebound (able to leave home at least once a week in the last month); Semi-homebound: (able to get home about 2 times a week with help), Non-homebound: (about 2 times a week but without help). Abbreviations:  $\beta'$  unstandardized coefficients(SE): standard error; CI: Confidence Intervals. Physical Health (QoL) is controlled as a dependent variable in this linear model meaning. Example: In the relation “Frail vs. non-frail” it is expected reduction of Overall QoL score (-4.34 grades), this also means that lower scores as worse Overall QoL. \*CVD: Cardiovascular diseases.

**Table S2.** The effect of frailty, geriatric syndromes, and other social demographic factors on Psychological Health (QoL).

	Linear regression models								
	Univariable models			Multivariable model 1			Multivariable model 2		
	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value
<b>Frailty</b>									
Pre frail vs Non-frail	-0.84 (0.49)	-1.80, 0.12	0.087	-0.18 (0.44)	-1.07, 0.70	0.685	-0.23 (0.34)	-1.17, 0.70	0.627
Frail vs Non-frail	-3.31 (0.50)	-4.30, -2.32	<0.001	-1.76 (0.50)	-2.75, -0.77	0.001	-1.74 (0.54)	-2.81, -0.68	0.001
<b>Cognitive function<sup>a</sup></b> (Moca)									
Dysfunction vs Normal (<26 vs $\geq$ 26)	-2.47 (0.55)	-3.56, -1.39	<0.001	-1.02 (0.48)	-1.97, -0.06	0.037	-0.88 (0.51)	-1.89, 0.12	0.087
<b>Depression (GDS)</b>									
Mild vs Normal	-2.41 (0.34)	-3.09, -1.74	<0.001	-1.48 (0.34)	-2.17, -0.80	<0.001	-1.47 (0.36)	-2.19, -0.76	<0.001
Severe vs Normal	-4.74 (0.47)	-5.67, -3.80	<0.001	-3.57 (0.48)	-4.51, -2.62	<0.001	-3.39 (0.51)	-4.40, -2.38	<0.001
<b>Comorbidity<sup>b</sup> (CCI)</b>									
Severe (CCI $\geq$ 5) vs Mild	-0.76 (0.40)	-1.55, 0.03	0.058	-0.17 (0.32)	-0.81, 0.46	0.589	-0.05 (0.38)	-0.80, 0.71	0.905
<b>Disability in ADL<sup>c</sup></b> (Barthel)									
Semi-dependent vs Independent	-1.09 (0.65)	-2.29, 0.25	0.117	0.79 (0.56)	-0.31, 1.90	0.156	0.74 (0.58)	-0.41, 1.90	0.206
Dependent vs Independent	-2.04 (0.70)	-3.42, -0.65	0.004	0.51 (0.65)	-0.78, 1.81	0.435	0.50 (0.68)	-0.83, 1.84	0.458
<b>Homebound status<sup>d</sup></b>									
Semi-homebound vs Non-homebound	-1.34 (0.46)	-2.27, -0.42	0.004	-0.12 (0.46)	-1.05, 0.79	0.791	-0.11 (0.49)	-1.08, 0.86	0.831
Homebound vs Non-homebound	-3.35 (0.44)	-4.23, -2.48	<0.001	-1.43 (0.47)	-2.36, -0.50	0.003	-1.46 (0.51)	-2.47, -0.45	0.005
<b>CVD*</b>									
Yes vs No	-0.65 (0.37)	-1.38, 0.08	0.080	-	-	-	-0.19 (0.36)	-0.90, 0.52	0.596
<b>Age (years)</b>									
$\geq$ 80 vs <80	-0.81 (0.36)	-1.53, -0.09	0.028	-	-	-	-0.22 (0.34)	-0.90, 0.45	0.515
<b>Gender</b>									
Male vs Female	0.61 (0.38)	-0.13, 1.36	0.107	-	-	-	-0.13 (0.38)	-0.89, 0.61	0.716
<b>Annual individual Income</b>									
>4500 vs <4500	0.61 (0.37)	-0.13, 1.34	0.104	-	-	-	0.06 (0.31)	-0.56, 0.69	0.838
<b>Smoking</b>									
Current vs Never	-0.58 (0.65)	-1.87, 0.69	0.370	-	-	-	-0.42 (0.61)	-1.62, 0.78	0.494
Former vs Never	0.78 (0.40)	-0.01, 1.58	0.053	-	-	-	0.21 (0.38)	-0.54, 0.97	0.583
<b>Educational Level</b>									
Highschool vs Uneducated	0.77 (0.56)	-0.34, 1.88	0.173	-	-	-	0.26 (0.38)	-0.49, 1.02	0.492
Bachelor/MSc/PhD vs Uneducated	1.13 (0.73)	-0.32, 2.58	0.126	-	-	-	0.46 (0.48)	-0.49, 1.42	0.340

Notes: <sup>a</sup>Cognitive Function: MoCA<26 is indicative of cognitive dysfunction; <sup>b</sup>Comorbidity refers to the mean values of the CCI index and not to the actual number of illnesses; <sup>c</sup>Disability in ADL refers to performing Activities of Daily Living (ADL). Barthel  $\leq$ 10 indicates that the person is dependent or “disabled”; <sup>d</sup>Homebound status refers to the ability of a person to leave home during the last month due to their illnesses. Homebound (able to leave home at least once a week in the last month); Semi-homebound: (able to get home about 2 times a week with help), Non-homebound: (about 2 times a week but without help). Abbreviations:  $\beta$ ' unstandardized coefficients(SE): standard error; CI: Confidence Intervals. Psychological Health (QoL) is controlled as a dependent variable in this linear model meaning. Example: In the relation “Frail vs. non-frail” it is expected reduction of Overall QoL score (-4.34 grades), this also means that lower scores as worse Overall QoL. \*CVD: Cardiovascular diseases.

**Table S3.** The effect of frailty, geriatric syndromes, and other social demographic factors on Social Relationships (QoL).

	Linear regression models								
	Univariable models			Multivariable model 1			Multivariable model 2		
	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value
<b>Frailty</b>									
Pre frail vs Non-frail	-1.36 (0.48)	-2.32, -0.40	0.005	-0.61 (0.46)	-1.52, 0.31	0.193	-0.42 (0.48)	-1.38, 0.53	0.385
Frail vs Non-frail	-3.67 (0.49)	-4.65, -2.69	<0.001	-1.98 (0.51)	-3.01, -0.96	<0.001	-1.86 (0.55)	-2.93, -0.77	0.001
<b>Cognitive function<sup>a</sup></b> (Moca)									
Dysfunction vs Normal (<26 vs $\geq$ 26)	-2.51 (0.54)	-3.57, -1.45	<0.001	-1.36 (0.49)	-2.34, -0.38	0.007	-1.25 (0.52)	-2.28, -0.22	0.017
<b>Depression (GDS)</b>									
Mild vs Normal	-2.67 (0.34)	-3.35, -1.98	<0.001	-1.96 (0.35)	-2.67, -1.25	<0.001	-2.02 (0.36)	-2.74, -1.29	<0.001
Severe vs Normal	-3.58 (0.48)	-4.53, -2.63	<0.001	-2.57 (0.49)	-3.54, -1.59	<0.001	-2.46 (0.52)	-3.49, -1.43	<0.001
<b>Comorbidity<sup>b</sup> (CCI)</b>									
Severe (CCI $\geq$ 5) vs Mild	-0.42 (0.40)	-1.21, 0.37	0.297	0.32 (0.33)	-0.33, 0.98	0.331	0.60 (0.39)	-0.17, 1.37	0.126
<b>Disability in ADL<sup>c</sup></b> (Barthel)									
Semi-dependent vs Independent	-1.66 (0.64)	-2.92, -0.39	0.010	0.17 (0.57)	-0.96, 1.31	0.761	0.04 (0.59)	-1.13, 1.22	0.940
Dependent vs Independent	-2.33 (0.69)	-3.67, -0.95	0.001	-0.47 (0.67)	-1.81, 0.86	0.487	-0.54 (0.69)	-1.90, 0.82	0.432
<b>Homebound status<sup>d</sup></b>									
Semi-homebound vs Non-homebound	-1.63 (0.46)	-2.56, -0.71	0.001	-0.12 (0.48)	-1.08, 0.83	0.801	0.08 (0.50)	-0.90, 1.08	0.863
Homebound vs Non-homebound	-2.76 (0.44)	-3.64, -1.88	<0.001	-0.96 (0.49)	-1.93, -0.01	0.48	-0.61 (0.52)	-1.64, 0.42	0.242
<b>CVD<sup>*</sup></b>									
Yes vs No	-0.42 (0.36)	-1.14, 0.29	0.248	-	-	-	-0.46 (0.36)	-1.18, 0.27	0.219
<b>Age (years)</b>									
$\geq$ 80 vs <80	-0.94 (0.35)	-1.64, -0.23	0.009	-	-	-	-0.61 (0.35)	-1.30, 0.076	0.081
<b>Gender</b>									
Male vs Female	1.14 (0.36)	0.42, 1.87	0.002	-	-	-	0.68 (0.38)	-0.08, 1.44	0.080
<b>Annual individual Income</b>									
>4500 vs <4500	0.39 (0.37)	-0.33, 1.13	0.282	-	-	-	-0.32 (0.33)	-0.95, 0.31	0.320
<b>Smoking</b>									
Current vs Never	-0.71 (0.64)	-1.96, 0.56	0.275	-	-	-	-0.90 (0.62)	-2.13, 0.32	0.147
Former vs Never	0.67 (0.39)	-0.11, 1.45	0.091	-	-	-	-0.32 (0.39)	-1.09, 0.45	0.412
<b>Educational Level</b>									
Highschool vs Uneducated	0.97 (0.55)	-0.11, 2.06	0.079	-	-	-	-0.14 (0.48)	-1.09, 0.80	0.761
Bachelor/MSc/PhD vs Uneducated	1.58 (0.72)	0.16, 2.99	0.029	-	-	-	0.87 (0.61)	-0.32, 2.07	0.153

Notes: <sup>a</sup>Cognitive Function: MoCA<26 is indicative of cognitive dysfunction; <sup>b</sup>Comorbidity refers to the mean values of the CCI index and not to the actual number of illnesses; <sup>c</sup>Disability in ADL refers to performing Activities of Daily Living (ADL). Barthel  $\leq$ 10 indicates that the person is dependent or “disabled”; <sup>d</sup>Homebound status refers to the ability of a person to leave home during the last month due to their illnesses. Homebound (able to leave home at least once a week in the last month); Semi-homebound: (able to get home about 2 times a week with help), Non-homebound: (about 2 times a week but without help). Abbreviations:  $\beta$ ' unstandardized coefficients(SE): standard error; CI: Confidence Intervals. Social Relationships (QoL) are controlled as a dependent variable in this linear model meaning. Example: In the relation “Frail vs. non-frail” it is expected reduction of Overall QoL score (-4.34 grades), this also means that lower scores as worse Overall QoL. \*CVD: Cardiovascular diseases.

**Table S4.** The effect of frailty, geriatric syndromes, and other social demographic factors on Environment (QoL).

	Linear regression models									
	Univariable models			Multivariable model 1			Multivariable model 2			
	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value	$\beta$ (SE)	95% CI	p-value	
<b>Frailty</b>										
Pre frail vs Non-frail	-2.43 (0.42)	-3.26, -1.60	<0.001	-1.87 (0.41)	-2.67, -1.06	<0.001	-1.82 (0.42)	-2.64, -0.99	<0.001	
Frail vs Non-frail	-3.81 (0.43)	-4.65, -2.96	<0.001	-2.58 (0.46)	-3.47, -1.68	<0.001	-2.28 (0.47)	-3.22, -1.35	<0.001	
<b>Cognitive function<sup>a</sup></b>										
(Moca)										
Dysfunction vs Normal (<26 vs $\geq$ 26)	-2.27 (0.48)	-3.21, -1.31	<0.001	-0.83 (0.44)	-1.70, 0.03	0.060	-0.92 (0.45)	-1.81, -0.04	0.042	
<b>Depression (GDS)</b>										
Mild vs Normal	-2.04 (0.32)	-2.66, -1.41	<0.001	-1.25 (0.32)	-1.88, -0.63	<0.001	-1.36 (0.32)	-1.99, -0.74	<0.001	
Severe vs Normal	-3.25 (0.44)	-4.12, -2.38	<0.001	-2.17 (0.43)	-3.03, -1.31	<0.001	-2.17 (0.45)	-3.05, -1.28	<0.001	
<b>Comorbidity<sup>b</sup> (CCI)</b>										
Severe (CCI $\geq$ 5) vs Mild	-0.21 (0.35)	-0.92, 0.49	0.547	0.36 (0.29)	-0.21, 0.94	0.216	0.47 (0.33)	-0.19, 1.14	0.161	
<b>Disability in ADL<sup>c</sup></b>										
(Barthel)										
Semi-dependent vs Independent	-1.85 (0.57)	-2.97, -0.74	0.001	-0.67 (0.51)	-1.67, 0.34	0.192	-0.65 (0.51)	-1.67, 0.35	0.204	
Dependent vs Independent	-2.29 (0.61)	-3.49, -1.08	<0.001	-0.73 (0.59)	-1.91, 0.44	0.222	-0.69 (0.59)	-1.86, 0.48	0.248	
<b>Homebound status<sup>d</sup></b>										
Semi-homebound vs Non-homebound	-0.95 (0.41)	-1.77, -0.13	0.024	0.67 (0.42)	-0.16, 1.52	0.113	0.77 (0.43)	-0.08, 1.63	0.075	
Homebound vs Non-homebound	-2.79 (0.40)	-3.58, -2.01	<0.001	-0.94 (0.43)	-1.78, -0.09	0.030	-0.59 (0.45)	-1.48, 0.29	0.189	
<b>CVD*</b>										
Yes vs No	-0.57 (0.32)	-1.21, 0.07	0.080	-	-	-	-0.36 (0.31)	-0.99, 0.26	0.253	
<b>Age (years)</b>										
$\geq$ 80 vs <80	-0.23 (0.32)	-0.87, 0.40	0.474	-	-	-	0.02 (0.30)	-0.58, 0.61	0.953	
<b>Gender</b>										
Male vs Female	1.05 (0.33)	0.39 (1.69)	0.002	-	-	-	-0.06 (0.33)	-0.71, 0.59	0.860	
<b>Annual individual Income</b>										
>4500 vs <4500	1.41 (0.32)	0.77, 2.04	<0.001	-	-	-	0.89 (0.27)	0.34, 1.44	0.002	
<b>Smoking</b>										
Current vs Never	-1.07 (0.56)	-2.19, 0.04	0.058	-	-	-	-0.74 (0.53)	-1.79, 0.32	0.171	
Former vs Never	1.03 (0.35)	0.34, 1.72	0.003	-	-	-	0.45 (0.33)	-0.21, 1.12	0.181	
<b>Educational Level</b>										
Highschool vs Uneducated	0.87 (0.49)	-0.10, 1.85	0.079	-	-	-	0.14 (0.41)	-0.68, 0.96	0.739	
Bachelor/MSc/PhD vs Uneducated	1.05 (0.65)	-0.23, 2.32	0.107	-	-	-	0.41 (0.52)	-0.62, 1.45	0.433	

Notes: <sup>a</sup>Cognitive Function: MoCA<26 is indicative of cognitive dysfunction; <sup>b</sup>Comorbidity refers to the mean values of the CCI index and not to the actual number of illnesses; <sup>c</sup>Disability in ADL refers to performing Activities of Daily Living (ADL). Barthel  $\leq$ 10 indicates that the person is dependent or “disabled”; <sup>d</sup>Homebound status refers to the ability of a person to leave home during the last month due to their illnesses. Homebound (able to leave home at least once a week in the last month); Semi-homebound: (able to get home about 2 times a week with help), Non-homebound: (about 2 times a week but without help). Abbreviations:  $\beta'$  unstandardized coefficients (SE): standard error; CI: Confidence Intervals. Environment (QoL) is controlled as a dependent variable in this linear model meaning. Example: In the relation “Frail vs. non-frail” it is expected reduction of Overall QoL score (-4.34 grades), this also means that lower scores as worse Overall QoL. \*CVD: Cardiovascular diseases.