Supporting Information

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Table S1. Cox regression for mortality in the fully adjusted model

Factor	Adjusted hazard ratio	P value
Social isolation	1.26 (1.08–1.48)	0.004
Sex (male)	0.58 (0.50–0.67)	<0.001
Age, years <60	1 (reference)	
60–69	2.44 (1.82–3.27)	<0.001
70–79	6.73 (5.09–8.90)	<0.001
80+	17.91 (13.44–23.86)	<0.001
Education		
No qualifications	1 (reference)	
Intermediate	1.14 (0.93–1.39)	0.21
Higher education	1.10 (0.90–1.34)	0.35
Ethnicity (white)	0.40 (0.15–1.08)	0.072
Wealth		
1 (lowest)	1 (reference)	
2	0.88 (0.73–1.07)	0.20
3	0.66 (0.54–0.82)	<0.001
4	0.79 (0.64–0.98)	0.030
5 (highest)	0.70 (0.55–0.88)	0.002
Marital status (unmarried)	1.13 (0.96–1.33)	0.15
Limiting long-standing illness	1.85 (1.60–2.15)	<0.001
Cancer	2.64 (2.09–3.34)	<0.001
Diabetes	0.86 (0.68–1.09)	0.21
Coronary heart disease	1.33 (1.04–1.70)	0.025
Chronic lung disease	1.05 (0.71–1.56)	0.81
Stroke	1.18 (0.91–1.53)	0.22
Arthritis	0.78 (0.68–0.90)	0.001
Mobility impairment	1.55 (1.29–1.86)	<0.001
Diagnosed depressive illness	1.39 (0.87–2.23)	0.17
Depressive symptoms above threshold	1.25 (1.07–1.47)	0.006
Loneliness	0.91 (0.77–1.08)	0.28

Table S2. Association between social isolation and mortality in survivors for 24 mo or more

		Social isolation	
Model	Covariates	HR (95% C.I.)	P value
1	Isolation + age + sex	1.54 (1.31–1.81)	<0.001
2	Isolation + age + sex + demographic factors*	1.37 (1.15–1.64)	<0.001
3	Isolation + age + sex + demographic factors* + health indicators[†]	1.32 (1.11–1.58)	0.002
4	Model 3 + loneliness	1.33 (1.11–1.59)	0.002

*Demographic factors are wealth, education, marital status, and ethnicity.
[†]Health indicators are limiting long-standing illness, mobility impairment, cancer, diabetes, coronary heart disease, chronic lung disease, arthritis, stroke, diagnosed depression, and Centre for Epidemiologic Studies Depression Scale rating.

Table S3. Logistic regression on mortality in fully adjusted model

Factor	Adjusted odds ratio	P value
Social isolation	1.26 (1.13–1.41)	<0.001
Loneliness	1.00 (0.94–1.06)	0.89
Sex (male)	0.53 (0.44–0.63)	<0.001
Age, years <60	1 (reference)	
60–69	2.51 (1.85–3.42)	<0.001
70–79	8.04 (6.00–10.81)	<0.001
80+	29.55 (21.40–40.82)	<0.001
Education		
No qualifications	1 (reference)	
Intermediate	0.95 (0.79–1.15)	0.61
Higher education	0.89 (0.70–1.13)	0.34
Ethnicity (white)	0.35 (0.12–1.05)	0.060
Wealth		
1 (lowest)	1 (reference}	
2	0.81 (0.63–1.03)	0.089
3	0.59 (0.45–0.76)	<0.001
4	0.74 (0.57–0.97)	0.028
5 (highest)	0.61 (0.46–0.81)	0.001
Marital status (unmarried)	1.28 (1.06–1.54)	0.011
Limiting long-standing illness	2.07 (1.72–2.49)	<0.001
Cancer	3.78 (2.69–5.32)	<0.001
Diabetes	0.80 (0.59–1.07)	0.14
Coronary heart disease	1.52 (1.09–2.12)	0.015
Chronic lung disease	1.03 (0.60–1.74)	0.95
Stroke	1.16 (0.80–1.69)	0.44
Arthritis	0.75 (0.63–0.90)	0.002
Mobility impairment	1.63 (1.32–2.02)	<0.001
Diagnosed depressive illness	1.30 (0.69–2.44)	0.41
Depressive symptoms above threshold	1.22 (0.99–1.51)	0.060