Title: The prospective relationship between social cohesion and depressive symptoms among older adults from Central and Eastern Europe

List of Authors: Carla Bertossi Urzua*¹, Milagros A Ruiz*^{^1}, Andrzej Pajak², Magdalena Kozela², Ruzena Kubinova³, Sofia Malyutina^{4,5}, Anne Peasey¹, Hynek Pikhart¹, Michael Marmot^{1,6}, Martin Bobak¹
**Joint first authors*

Author Affiliations: ¹Research Department of Epidemiology and Public Health, University College London, London, United Kingdom; ²Institute of Public Health, Faculty of Health Sciences, Jagiellonian University Medical College, Krakow, Poland; ³Centre for Environmental Health Monitoring, National Institute of Public Health, Prague, Czech Republic; ⁴Research Institute of Internal and Preventive Medicine, Branch of the Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia; ⁵Novosibirsk State Medical University, Novosibirsk, Russia; ⁶UCL Institute of Health Equity and Research Department of Epidemiology and Public Health, University College London, London, United Kingdom

^Correspondence to m.a.ruiz@ucl.ac.uk

Supplementary Figure and Tables

Figure S1	Selection diagram of analytic sample
	Analytic sample characteristics between complete (N=15,438) and incomplete cases ing data (n=2,584) or loss to follow-up (n=10,932)
	Odds ratios (ORs) of being an incomplete case due to missing data or loss to follow-
up by analy	sis variables2

Figure S1 Selection diagram of analytic sample

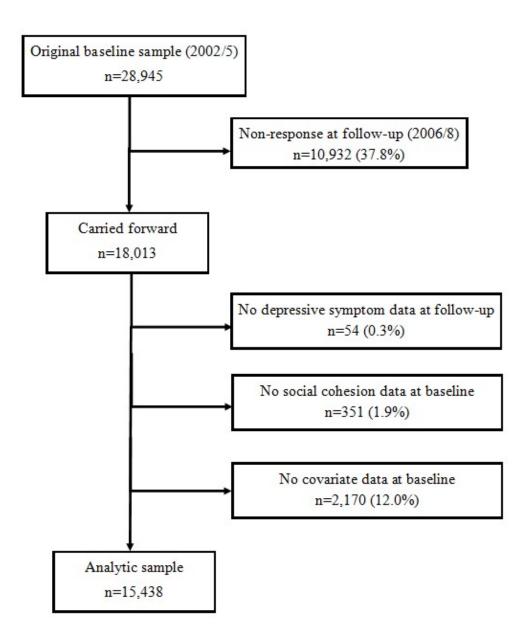


Table S1 Analytic sample characteristics between complete (N=15,438) and incomplete cases due to missing data (n=2,584) or loss to follow-up (n=10,932)

Study data*	Complete cases (N=15,438)	Incomplete cases (N=13,516)	P-value
T. W. (222.6/0)		- 77	
Follow-up measures (2006/8)	2.5.0	1 22 0	0.004
Elevated depressive symptoms (CES-D 10 score ≥ 4) (%)	25.2	33.9	< 0.001
Baseline measures (2002/5)	T	1	
Mean age (years)*	57.9	58.1	0.0212
Female (%)*	54.0	51.7	< 0.001
Country (%)*			
Czech Republic	30.2	31.0	
Russia	30.0	35.0	
Poland	39.8	34.0	< 0.001
Median social cohesion score (5-25)	20	20	< 0.001
Social cohesion tertiles (%)			
High (21-25)	40.7	36.7	
Medium (18-20)	32.4	32.8	
Low (5-17)	26.9	30.5	< 0.001
Drinking frequency (%)	20.5	30.5	0.001
Never	19.9	24.3	
Less than once a month	28.6	29.1	
One to three times a month	21.6	19.4	
One to four times a week	23.7	21.1	
Five or more times a week	6.2	6.1	< 0.001
Smoking status (%)			
Never	48.6	45.2	
Past	24.7	23.0	
Current	26.7	31.9	< 0.001
Married or cohabitating (%)	76.4	72.9	< 0.001
Educational level (%)			
Primary or less	8.3	15.2	
Vocational	26.6	29.2	
Secondary	38.3	34.5	
University	26.8	21.2	< 0.001
Median deprivation score (0-12)	1	2	< 0.001
Self-rated health (%)	1		0.001
Very good	2.7	2.3	
Good	28.8	23.5	
Fair	54.4	55.4	
Poor	13.2	17.1	
Very Poor	1.0	1.8	< 0.001
Median CES-D 20 score (0-60)	0	10	< 0.001
Elevated depressive symptoms (CES-D 20 score ≥ 16) (%)	22.3	26.6	< 0.001

^{*} Covariate baseline data on age, sex and country were observed for all participants.

Table S2 Odds ratios (ORs) of being an incomplete case due to missing data or loss to follow-up by analysis variables

Table 52 Odds Fatios (OKs) of being an incomplete case due to missing data of 1038 to 1010W-up by analysis variables											
	Model 1			Model 2			Model 3				
	OR	95% CI	P-value	OR	95% CI	P-value	OR	95% CI	P-value		
Y											
Elevated depressive symptoms											
(CES-D 10 score \geq 4)	0.79	0.60, 1.04	0.093	0.82	0.57, 1.20	0.313	0.83	0.54, 1.29	0.417		
X											
Social cohesion z-score	0.88	0.79, 0.98	0.024	0.90	0.77, 1.04	0.150	1.14	0.98, 1.04	0.157		
С											
Age*	1.02	1.01, 1.04	0.001	1.02	1.00, 1.04	0.078	1.01	0.98, 1.04	0.437		
Female*	1.11	1.23, 1.71	0.329	1.49	1.09, 2.04	0.011	1.70	1.11, 2.60	0.015		
Country*	0.81	0.71, 0.92	0.001	0.79	0.66, 0.94	0.008	0.86	0.69, 1.07	0.170		
CES-D 20 score (0-60)	1.00	0.99, 1.01	0.857	1.00	0.99, 1.03	0.541	1.01	0.99, 1.03	0.268		
Married or cohabitating	-	-	-	0.77	0.56, 1.07	0.120	0.66	0.45, 0.96	0.028		
Educational level	-	-	-	1.18	1.01, 1.39	0.034	1.01	0.83, 1.22	0.935		
Deprivation score	-	-	-	0.99	0.94, 1.05	0.700	0.97	0.91, 1.04	0.391		
Self-rated health	-	-	-	0.76	0.61, 0.94	0.013	0.68	0.52, 0.88	0.004		
Drinking frequency	-	-	-	-	_	-	0.76	0.64, 0.91	0.002		
Smoking status	-	-	-	-	_	-	1.00	0.80, 1.24	0.977		

^{*} Covariate was observed for all participants.