

Article title: Men's health and co-residence with older generations in Russia: Better or worse?

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Appendix A. Descriptive statistics for the total sample of person-waves of Russian men aged 25 years or older, 1994-2015

Variables	Total sample					
	N, total	%	Having a change in self-rated health status			
			AND living without parents in the 1st observation		AND living with parents in the 1st observation	
			N	%	N	%
Self-rated health status						
Poor	9,578	12.3	6,626	33.0	1,353	27.5
Fine	68,545	87.7	13,486	67.1	3,573	72.5
Intergenerational living arrangements (ILA) status						
Not living with an older generation	60,760	77.8	19,514	97.0	1,773	36.0
Living with older generation in POOR health	4,515	5.8	279	1.4	1,317	26.7
Living with older generation in FINE health	12,390	15.9	299	1.5	1,719	34.9
Living with older generation with missing health	458	0.6	20	0.1	117	2.4
Age groups						
25-34	20,071	25.7	1,069	5.3	1,085	22.0
35-44	18,477	23.7	2,409	12.0	1,360	27.6
45-54	16,095	20.6	4,265	21.2	1,250	25.4
55-64	12,254	15.7	5,199	25.9	775	15.7
65+	11,226	14.4	7,170	35.7	456	9.3
Partnership status						
Without partner	13,588	17.4	2,705	13.5	1,770	35.9
With partner	64,535	82.6	17,407	86.6	3,156	64.1
Educational level						
Incomplete SS	16,506	21.1	6,661	33.1	1,166	23.7
Complete SS	30,391	38.9	6,821	33.9	2,076	42.1
Vocational SE	14,816	19.0	3,440	17.1	888	18.0
Higher education	16,410	21.0	3,190	15.9	796	16.2
Economic activity						
Currently working	51,091	65.4	8,335	41.4	2,476	50.3
Not working or (un)paid leave	27,032	34.6	11,777	58.6	2,450	49.7
Total N of observations	78,123	100.0	20,112	100.0	4,926	100.0
Total N of men	11,546		2,257		551	

Source: own authors' calculations based on the Russian Longitudinal Monitoring Survey, 1994-2015

Appendix B. Sensitivity analysis results

Table B.1. Odds of being in fine health according to living arrangement with parent(s), grandparent(s) and parent(s)-in-law, total sample of Russian men, 1994-2015

Variables	Fixed-effects model	
	OR	CI 95%
<i>ILA: parents</i>		
Not living with parent(s)	1	
Living with parent(s) in POOR health	0.93	[0.70,1.22]
Living with parent(s) in FINE health	1.88	[1.39,2.54]
Living with parent(s) with missing health	1.12	[0.51,2.49]
<i>ILA: grandparents</i>		
Not living with grandparent(s)	1	
Living with grandparent(s) in POOR health	0.62	[0.22,1.76]
Living with grandparent(s) in FINE health	3.21	[0.77,13.27]
Living with grandparent(s) with missing health	0.95	[0.21,4.34]
<i>ILA: parents-in-law</i>		
Not living with parent(s)-in-law	1	
Living with parent(s)-in-law in POOR health	1.03	[0.77,1.39]
Living with parent(s)-in-law in FINE health	1.99	[1.40,2.85]
Living with parent(s)-in-law with missing health	1.80	[0.88,3.69]
<i>Living with a partner</i>		
Without partner	1	
With partner	1.89	[1.59,2.24]
<i>Age groups</i>		
25-34	1	
35-44	0.98	[0.80,1.21]
45-54	0.64	[0.50,0.83]
55-64	0.43	[0.32,0.56]
65+	0.19	[0.14,0.26]
<i>Education</i>		
Incomplete SS	1	
Complete SS	1.33	[1.15,1.53]
Vocational SE	1.51	[1.19,1.91]
Higher education	1.45	[1.02,2.05]
<i>Economic activity</i>		
Currently working	1	
Not working or on (un)paid leave	0.32	[0.29,0.36]
Observations	25038	

Note: 95% confidence intervals in brackets

Source: own authors' calculations based on the Russian Longitudinal Monitoring Survey, 1994-2015

Table B.2. Odds of being in fine health of 2,257 Russian men NOT living in ILA at start, fixed-effects logistic regression models, 1994-2015

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>ILA</i>							
Not living in ILA	1	1	1	1	1	1	1
Started living with older generation in POOR health	0.65 [0.45,0.95]	0.67 [0.45,0.98]	0.64 [0.44,0.93]	0.64 [0.44,0.93]	0.65 [0.44,0.95]	0.65 [0.45,0.95]	0.66 [0.46,0.96]
Started living with older generation in FINE health	1.27 [0.81,1.97]	1.29 [0.83,2.02]	1.25 [0.81,1.94]	1.25 [0.80,1.94]	1.26 [0.81,1.97]	1.28 [0.83,1.99]	1.31 [0.85,2.04]
Started living with older generation with missing health	1.06 [0.30,3.79]	1.01 [0.29,3.49]	1.00 [0.29,3.43]	0.99 [0.29,3.43]	0.84 [0.24,2.95]	0.90 [0.26,3.07]	1.03 [0.30,3.58]
<i>Living with a partner</i>							
Without partner	1	1	1	1		1	1
With partner	1.46 [1.20,1.78]	2.28 [1.77,2.93]	2.08 [1.71,2.52]	2.09 [1.73,2.53]		2.09 [1.72,2.54]	2.01 [1.66,2.44]
<i>Age groups</i>							
25-34	1	1	1	1	1	1	1
35-44	1.85 [1.36,2.51]	0.87 [0.64,1.17]	0.83 [0.62,1.12]	0.83 [0.62,1.12]	0.83 [0.62,1.12]	0.84 [0.62,1.12]	0.91 [0.68,1.23]
45-54	3.07 [2.09,4.50]	0.63 [0.44,0.89]	0.57 [0.41,0.80]	0.57 [0.41,0.80]	0.59 [0.42,0.83]	0.57 [0.40,0.79]	0.67 [0.48,0.95]
55-64	4.64 [2.95,7.27]	0.42 [0.29,0.62]	0.39 [0.27,0.56]	0.38 [0.26,0.54]	0.41 [0.29,0.60]	0.37 [0.26,0.54]	0.48 [0.33,0.69]
65+	4.66 [2.76,7.87]	0.19 [0.12,0.28]	0.17 [0.11,0.25]	0.16 [0.11,0.24]	0.19 [0.13,0.28]	0.16 [0.11,0.24]	0.23 [0.15,0.34]
<i>Education</i>							
Incomplete SS	1	1	1	1	1	1	1
Complete SS	1.18 [1.00,1.39]	1.29 [1.10,1.51]	1.29 [1.10,1.52]	1.29 [1.10,1.52]	1.27 [1.08,1.50]	1.30 [1.10,1.52]	1.28 [1.09,1.51]
Vocational SE	1.25 [0.96,1.63]	1.36 [1.05,1.76]	1.37 [1.06,1.78]	1.37 [1.06,1.78]	1.36 [1.04,1.77]	1.36 [1.05,1.77]	1.35 [1.04,1.76]
Higher education	1.51 [1.01,2.27]	1.52 [1.02,2.25]	1.54 [1.04,2.28]	1.54 [1.04,2.28]	1.50 [1.00,2.23]	1.52 [1.02,2.26]	1.52 [1.02,2.26]
<i>Economic activity</i>							
Currently working	1	1	1	1	1	1	1
Not working or on (un)paid leave	0.40 [0.36,0.46]	0.32 [0.29,0.37]	0.32 [0.29,0.37]	0.32 [0.29,0.36]	0.32 [0.29,0.36]	0.34 [0.30,0.38]	0.34 [0.30,0.38]
<i>Survey year</i>	0.88						

	[0.87,0.89]			
<i>Other adults aged 16+ in household</i>				
No other adults	1			
+1 adult	0.85			
	[0.65,1.10]			
+2 adults	0.81			
	[0.61,1.07]			
+3> adults	0.88			
	[0.65,1.19]			
<i>Minors aged 0-15 in household</i>				
No minors	1			
1 minor	1.12			
	[0.97,1.28]			
2 or more minors	1.30			
	[1.06,1.60]			
<i>Men's parental status</i>				
No children in household		1		
Living with child(ren)		1.05		
		[0.92,1.21]		
<i>Death of older generations between wave t and t-1</i>				
No death occurred			1	
At least one parent/grandparent/parent-in-law died			0.96	
			[0.44,2.08]	
<i>Partner's health</i>				
Living without partner			1	
Living with partner in poor health			1.09	
			[0.89,1.34]	
Living with partner in good health			3.47	
			[2.84,4.25]	
Living with partner with missing health			2.45	
			[1.65,3.64]	
<i>Household income quintile</i>				
Quintile 1 (lowest)			1	
Quintile 2			0.95	
			[0.84,1.07]	
Quintile 3			0.99	
			[0.86,1.13]	
Quintile 4			1.13	

Quintile 5 (highest)							[0.97,1.31]
							1.08
							[0.92,1.27]
<i>Self-assessment of household's financial well-being status</i>							
The poorest (scores 1-3)							1
In the middle (scores 4-6)							1.28
							[1.18,1.39]
The richest (scores 7-9)							1.22
							[0.95,1.57]
Missing reports							0.83
							[0.63,1.10]
<i>Lagged self-rated health</i>							
Poor health							1
Fine health							1.19
							[1.10,1.29]
Missing (1st wave)							1.54
							[1.36,1.74]
Observations	20112	20112	20112	20112	20112	20112	20112

Note: 95% confidence intervals in brackets;

- (1) – addition of period effects ('survey year');
- (2) – addition of 'other adults aged 16+' and 'Minors aged 0-15' in household;
- (3) – addition of men's parental status;
- (4) – addition of the time-varying recorded deaths of older generations in household;
- (5) – addition of partner's health status;
- (6) – addition of household income quintiles and self-assessed financial well-being;
- (7) – addition of the lagged variable of men's self-rated health (t-1).

Source: own authors' calculations based on the Russian Longitudinal Monitoring Survey, 1994-2015

Table B.3. Odds of being in fine health of 551 Russian men living in ILA at start, fixed-effects logistic regression models, 1994-2015

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>ILA</i>							
Stopped living in ILA	0.49 [0.36,0.68]	0.41 [0.29,0.58]	0.37 [0.27,0.50]	0.38 [0.28,0.51]	0.39 [0.29,0.53]	0.37 [0.28,0.50]	0.37 [0.27,0.50]
Continued living with older generation in POOR health	0.50 [0.39,0.65]	0.50 [0.39,0.65]	0.49 [0.38,0.63]	0.49 [0.38,0.63]	0.49 [0.38,0.63]	0.49 [0.38,0.63]	0.49 [0.38,0.63]
Continued living with older generation in FINE health	1	1	1	1	1	1	1
Continued living with older generation with missing health	0.83 [0.45,1.52]	0.82 [0.44,1.52]	0.75 [0.41,1.37]	0.75 [0.41,1.37]	0.74 [0.40,1.35]	0.74 [0.40,1.36]	0.75 [0.41,1.37]
<i>Living with a partner</i>							
Without partner	1	1	1	1	1	1	1
With partner	1.21 [0.81,1.79]	1.20 [0.79,1.82]	1.28 [0.84,1.94]	1.25 [0.85,1.84]		1.24 [0.84,1.83]	1.25 [0.85,1.85]
<i>Age groups</i>							
25-34	1	1	1	1	1	1	1
35-44	2.45 [1.70,3.53]	1.28 [0.95,1.74]	1.30 [0.96,1.75]	1.29 [0.96,1.75]	1.28 [0.95,1.73]	1.31 [0.97,1.77]	1.28 [0.94,1.74]
45-54	3.21 [1.80,5.73]	0.85 [0.56,1.29]	0.87 [0.58,1.31]	0.87 [0.58,1.31]	0.88 [0.59,1.33]	0.87 [0.58,1.31]	0.86 [0.57,1.30]
55-64	4.28 [1.90,9.66]	0.60 [0.34,1.05]	0.62 [0.36,1.07]	0.61 [0.36,1.06]	0.62 [0.36,1.07]	0.61 [0.35,1.06]	0.61 [0.35,1.06]
65+	4.83 [1.67,14.00]	0.37 [0.18,0.76]	0.38 [0.19,0.78]	0.38 [0.18,0.77]	0.39 [0.19,0.79]	0.37 [0.18,0.75]	0.38 [0.18,0.78]
<i>Education</i>							
Incomplete SS	1	1	1	1	1	1	1
Complete SS	1.42 [1.03,1.96]	1.48 [1.07,2.04]	1.47 [1.07,2.03]	1.47 [1.07,2.03]	1.46 [1.06,2.01]	1.43 [1.03,1.97]	1.47 [1.07,2.03]
Vocational SE	2.41 [1.39,4.18]	2.36 [1.37,4.09]	2.31 [1.34,3.99]	2.30 [1.34,3.98]	2.35 [1.35,4.07]	2.24 [1.30,3.87]	2.29 [1.33,3.96]
Higher education	1.21 [0.57,2.58]	1.22 [0.58,2.57]	1.22 [0.58,2.58]	1.22 [0.58,2.57]	1.26 [0.59,2.66]	1.17 [0.55,2.47]	1.22 [0.58,2.58]
<i>Economic activity</i>							
Currently working	1	1	1	1	1	1	1
Not working or on (un)paid leave	0.36 [0.29,0.45]	0.33 [0.27,0.42]	0.33 [0.27,0.42]	0.33 [0.27,0.42]	0.34 [0.27,0.42]	0.35 [0.28,0.43]	0.33 [0.27,0.42]
<i>Survey year</i>	0.90						

	[0.88,0.93]		
<i>Other adults aged 16+ in household</i>			
No other adults	1		
+1 adult	0.83 [0.51,1.36]		
+2 adults	0.86 [0.49,1.52]		
+3> adults	1.18 [0.63,2.21]		
<i>Minors aged 0-15 in household</i>			
No minors	1		
1 minor	0.96 [0.73,1.26]		
2 or more minors	1.10 [0.74,1.63]		
<i>Men's parental status</i>			
No children in household		1	
Living with child(ren)		0.96 [0.68,1.37]	
<i>Death of older generations between wave t and t-1</i>			
No death occurred			1
At least one parent/grandparent/parent- in-law died			0.91 [0.63,1.32]
<i>Partner's health</i>			
Living without partner			1
Living with partner in poor health			0.55 [0.34,0.88]
Living with partner in good health			1.43 [0.96,2.12]
Living with partner with missing health			1.03 [0.43,2.45]
<i>Household income quintile</i>			
Quintile 1 (lowest)			1
Quintile 2			1.18 [0.93,1.51]
Quintile 3			1.13 [0.87,1.48]
Quintile 4			1.19

Quintile 5 (highest)								[0.88,1.62]
								1.18
								[0.93,1.51]
<i>Self-assessment of household's financial well-being status</i>								
The poorest (scores 1-3)								1
								1.32
In the middle (scores 4-6)								[1.11,1.58]
								1.27
The richest (scores 7-9)								[0.74,2.20]
								0.80
Missing reports								[0.47,1.37]
<i>Lagged self-rated health</i>								
Poor health								1
								1.03
Fine health								[0.86,1.23]
								0.95
Missing (1st wave)								[0.73,1.24]
Observations	4926	4926	4926	4926	4926	4926	4926	4926

Note: 95% confidence intervals in brackets;

- (1) addition of period effects ('survey year');
- (2) addition of 'other adults aged 16+' and 'Minors aged 0-15' in household;
- (3) addition of men's parental status;
- (4) addition of the time-varying recorded deaths of older generations in household;
- (5) addition of partner's health status;
- (6) addition of household income quintiles and self-assessed financial well-being;
- (7) addition of the lagged variable of men's self-rated health (t-1).

Source: own authors' calculations based on the Russian Longitudinal Monitoring Survey, 1994-2015

Table B.4. Odds of being in fine health, fixed-effects logistic regression models based on three selected samples of Russian men, 1994-2015

Variables	Men aged 45 years old or older		Men aged 25-64 years old		Men with no temporary attrition	
	OR	CI 95%	OR	CI 95%	OR	CI 95%
<i>ILA</i>						
Not living with an older generation	1		1		1	
Living with older generation in POOR health	1.19	[0.92,1.55]	0.86	[0.69,1.07]	0.92	[0.71,1.19]
Living with older generation in FINE health	2.65	[1.81,3.88]	1.80	[1.41,2.29]	1.87	[1.39,2.51]
Living with older generation with missing health	1.72	[0.92,3.22]	1.44	[0.77,2.72]	3.17	[1.49,6.71]
<i>Living with a partner</i>						
Without partner	1		1		1	
With partner	1.94	[1.59,2.37]	1.63	[1.29,2.06]	2.48	[1.99,3.11]
<i>Age groups</i>						
25-34	-	-	1		1	
35-44	-	-	0.98	[0.79,1.20]	0.96	[0.72,1.27]
45-54	1		0.64	[0.50,0.82]	0.62	[0.45,0.87]
55-64	0.68	[0.59,0.78]	0.40	[0.30,0.53]	0.48	[0.33,0.69]
65+	0.31	[0.25,0.38]	-	-	0.21	[0.14,0.32]
<i>Education</i>						
Incomplete SS	1		1		1	
Complete SS	1.31	[1.11,1.55]	1.21	[1.02,1.44]	1.27	[1.06,1.51]
Vocational SE	1.53	[1.17,2.01]	1.32	[1.00,1.75]	1.46	[1.09,1.95]
Higher education	1.51	[1.00,2.29]	1.20	[0.78,1.85]	1.33	[0.87,2.03]
<i>Economic activity</i>						
Currently working	1		1		1	
Not working or on (un)paid leave	0.31	[0.27,0.35]	0.34	[0.30,0.38]	0.30	[0.26,0.34]
Observations	18405		16349		16877	

Note: 95% confidence intervals in brackets

Source: own authors' calculations based on the Russian Longitudinal Monitoring Survey, 1994-2015