Supplementary online materials for the article

Children's strains, parents' pains? How adult children's union dissolution influences older parents' health

Damiano Uccheddu & Ruben van Gaalen

Table A1. Stepwise sample selection steps. Percentages refer to individuals left from the initial sample.

	Parents	Parent-Child Dyads	Observations	Sample reduction (% left from the initial sample)		
				Parents	Parent-Child Dyads	Observations
Initial sample	6,492	11,163	23,223	100.00	100.00	100.00
SHARE eligibility criteria not met	6,372	11,005	22,873	98.15	98.58	98.49
Childless	5,744	10,365	21,632	88.48	92.85	93.15
Respondents not linkable to the SSD	3,240	7,854	17,675	49.91	70.36	76.11
Respondents with missing values in the dependent variables[a]	3,071	7,563	16,707	47.30	67.75	71.94
Respondents' children were not at risk of partnership dissolution	2,699	5,542	12,753	41.57	49.65	54.92
Respondents' children had no information on the start date of cohabitation[a]	2,552	5,108	11,014	39.31	45.76	47.43
Respondents with missing values in the independent variables[a]	2,547	5,094	10,981	39.23	45.63	47.29
Respondents participated in only one SHARE wave	1,510	3,024	8,911	23.26	27.09	38.37

[a] Imputed with multivariate imputation by chained equations (MICE)

Table A2. Frailty Index (FI) deficit variables and cut-off points.

Variable	SHARE code	Variable description	Cut-Point	Reference / Note
FI_bmi	bmi	Body mass index (Kg/m²) deficit	<18.5 or ≥30 = 1 25 to <30 = 0.5 18.5 to <25 = 0	(1) (2) (**)
FI_phactiv	br015_ br016_	Activities requiring moderate or vigorous physical activity: hardly ever, or never	Yes = 1, No = 0	(1)
FI_maxgrip	maxgrip	Grip strength (kg) deficit	**Men**: - FI_maxgrip = 1 if BMI ≤ 24, GS ≤ 29 - FI_maxgrip = 1 if BMI > 24 and ≤ 28, GS ≤ 30 - FI_maxgrip = 1 if BMI > 28, GS ≤ 32 **Women**: - FI_maxgrip = 1 if BMI ≤ 23, GS ≤ 17 - FI_maxgrip = 1 if BMI > 23 and ≤ 26, GS ≤ 17.3 - FI_maxgrip = 1 if BMI > 26 and ≤ 29, GS ≤ 18 - FI_maxgrip = 1 if BMI > 29, GS ≤ 21	(1) (2) (**)
FI_sad	mh002_	Sad or depressed last month	Yes = 1, No = 0	(1)
FI_hopelessness	mh003_	Hopelessness (Absence of hopes for the future)	Yes = 1, No = 0	(1)
FI_appetite	mh011_ mh012_	Diminution in the desire for food and/or eating less than usual	Yes = 1, No = 0	(1)
FI_fatigue	mh013_	Fatigue	Yes = 1, No = 0	(1)
FI_enjoyment	mh016	Lack of enjoyment	Yes = 1, No = 0	(1)
FI_orienti	orienti	Impaired orientation in time test (i.e. less than good): date, month, year and day of week	Yes = 1, No = 0	(1) (**)
FI_srh	ph003_ ph052_	Self-report of health	Excellent = 0 Very good = 0.25 Good = 0.5 Fair = 0.75 Poor = 1	(1) (2)
FI_longtermill	ph004_	Long-term illness	Yes = 1, No = 0	(1)
FI_heartattack	ph006d1	Doctor told you had: heart attack	Yes = 1, No = 0	(1)
FI_cancer	ph006d10	Doctor told you had: cancer	Yes = 1, No = 0	(1)
FI_parkinson	ph006d12	Doctor told you had: Parkinson disease	Yes = 1, No = 0	
FI_fracture	ph006d14	Doctor told you had: hip fracture or femoral fracture	Yes = 1, No = 0	(1)
FI_hypertension	ph006d2	Doctor told you had: high blood pressure or hypertension	Yes = 1, No = 0	(1)
FI_stroke	ph006d4	Doctor told you had: stroke	Yes = 1, No = 0	(1)
FI_diabetes	ph006d5	Doctor told you had: diabetes or high blood sugar	Yes = 1, No = 0	(1)
FI_lungdisease	ph006d6	Doctor told you had: chronic lung disease	Yes = 1, No = 0	(1)
FI_arthritis	ph006d8 ph006d19 (wave 5 and 6) ph006d20 (wave 5 and 6)	Doctor told you had: arthritis	Yes = 1, No = 0	(1) (*)
FI_falling	ph010d7	Bothered by: falling down	Yes = 1, No = 0	(1)
FI_fearfall	ph010d8	Bothered by: fear of falling down	Yes = 1, No = 0	(1)
FI_dizziness	ph010d9	Bothered by: dizziness, faints or blackouts	Yes = 1, No = 0	(1)
FI_walk100	ph048d1	Difficulties: walking 100 metres	Yes = 1, No = 0	(1)
FI_chair	ph048d3	Difficulties: getting up from chair	Yes = 1, No = 0	(1)
FI_stairs	ph048d5	Difficulties: climbing one flight of stairs	Yes = 1, No = 0	(1)
FI_arms	ph048d7	Difficulties: reaching or extending arms above shoulder	Yes = 1, No = 0	(1)

FI_lift5kg	ph048d9	Difficulties: lifting or carrying weights over 5 kilos	Yes = 1, No = 0	(1)
FI_dressing	ph049d1	Difficulties: dressing, including shoes and socks	Yes = 1, No = 0	(1)
FI_phone	ph049d10	Difficulties: telephone calls	Yes = 1, No = 0	
FI_medications	ph049d11	Difficulties: taking medications	Yes = 1, No = 0	(1)
FI_garden	ph049d12	Difficulties: doing work around the house or garden	Yes = 1, No = 0	(1)
FI_money	ph049d13	Difficulties: managing money	Yes = 1, No = 0	(1)
FI_walkRoom	ph049d2	Difficulties: walking across a room	Yes = 1, No = 0	(1)
FI_bathing	ph049d3	Difficulties: bathing or showering	Yes = 1, No = 0	(1) (2)
FI_eating	ph049d4	Difficulties: eating, cutting up food	Yes = 1, No = 0	(1)
FI_bed	ph049d5	Difficulties: getting in or out of bed	Yes = 1, No = 0	(1)
FI_toilet	ph049d6	Difficulties: using the toilet, including getting up or down	Yes = 1, No = 0	(1)
FI_hotmeal	ph049d8	Difficulties: preparing a hot meal	Yes = 1, No = 0	(1)
FI_shopping	ph049d9	Difficulties: shopping for groceries	Yes = 1, No = 0	(1)

Notes: (*) Starting in Wave 5, respondents were asked if they have ever had rheumatoid arthritis (*ph006d19*) or osteoarthritis/other rheumatism (*ph006d20*) as separate questions. *FI_arthritis* is coded as 1 if the respondent indicates having had at least one of the conditions. (**) This variable is from the "*gv_imputations*" module, but we have excluded the imputed values.

References: (1) Romero-Ortuno, R. and Kenny, R.A. (2012) The frailty index in Europeans: Association with age and mortality. Age and Ageing, 41, 684–689. (2) Searle, S.D., Mitnitski, A., Gahbauer, E.A., Gill, T.M. and Rockwood, K. (2008) A standard procedure for creating a frailty index. BMC Geriatrics, 8, 24.

Table A3. Fixed-effects linear regression models on parents' health (z-scores), whole sample. High values indicate poor health.

	Whole sample		Fathers		Mothers	
	FI	FI (*Excluding mental health*)	FI	FI (*Excluding mental health*)	FI	FI (*Excluding mental health*)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)						
-4/-2 years	0.06	0.05	0.02	0.03	0.08	0.07
	(-0.04 - 0.15)	(-0.05 - 0.15)	(-0.14 - 0.17)	(-0.13 - 0.19)	(-0.04 - 0.21)	(-0.05 - 0.19)
-2/0 years	0.22***	0.20***	0.33***	0.35**	0.14*	0.10+
	(0.12 - 0.33)	(0.09 - 0.31)	(0.15 - 0.51)	(0.14 - 0.55)	(0.02 - 0.26)	(-0.01 - 0.21)
0/2 years	0.03	0.03	0.10	0.10	0.00	-0.02
	(-0.06 - 0.12)	(-0.06 - 0.11)	(-0.05 - 0.24)	(-0.04 - 0.25)	(-0.12 - 0.11)	(-0.13 - 0.09)
2/4 years	0.04	0.05	0.10	0.13	0.00	-0.01
	(-0.06 - 0.13)	(-0.04 - 0.14)	(-0.07 - 0.26)	(-0.04 - 0.29)	(-0.11 - 0.11)	(-0.11 - 0.09)
4/6 years	0.07+	0.08*	0.14*	0.15**	0.01	0.03
	(-0.01 - 0.14)	(0.01 - 0.15)	(0.02 - 0.26)	(0.04 - 0.27)	(-0.09 - 0.12)	(-0.06 - 0.13)
Legally divorced (ref.: no)						
Yes	0.01	0.01	0.00	-0.03	0.00	0.04
	(-0.11 - 0.12)	(-0.10 - 0.12)	(-0.16 - 0.16)	(-0.20 - 0.14)	(-0.17 - 0.17)	(-0.11 - 0.18)
Time since cohabitation (ref.: 0-2 years)						
2-4 years	-0.06*	-0.06*	-0.10*	-0.09*	-0.03	-0.05
	(-0.12 - -0.00)	(-0.12 - -0.01)	(-0.18 - -0.02)	(-0.17 - -0.00)	(-0.10 - 0.05)	(-0.12 - 0.03)
4-6 years	-0.12***	-0.11**	-0.13*	-0.08	-0.12*	-0.13**
	(-0.19 - -0.05)	(-0.18 - -0.04)	(-0.23 - -0.03)	(-0.19 - 0.03)	(-0.21 - -0.02)	(-0.23 - -0.04)
6-8 years	-0.17***	-0.17***	-0.20**	-0.17*	-0.15**	-0.16**
	(-0.25 - -0.09)	(-0.25 - -0.08)	(-0.32 - -0.07)	(-0.30 - -0.03)	(-0.26 - -0.04)	(-0.27 - -0.05)
8+ years	-0.23***	-0.24***	-0.22*	-0.20*	-0.24**	-0.28***
	(-0.34 - -0.12)	(-0.36 - -0.13)	(-0.39 - -0.04)	(-0.38 - -0.02)	(-0.38 - -0.09)	(-0.43 - -0.14)
Geographic distance between parent and children (ref.: 0-2 km)						
2-5 km	0.02	-0.01	-0.08	-0.09	0.08	0.04
	(-0.07 - 0.12)	(-0.10 - 0.09)	(-0.24 - 0.08)	(-0.26 - 0.08)	(-0.03 - 0.20)	(-0.06 - 0.14)
5-10 km	0.01	-0.03	-0.04	-0.08	0.03	0.00
	(-0.13 - 0.15)	(-0.18 - 0.12)	(-0.29 - 0.22)	(-0.36 - 0.20)	(-0.12 - 0.18)	(-0.15 - 0.14)
10-60 Km	0.06	0.06	0.09	0.08	0.04	0.05
	(-0.06 - 0.19)	(-0.07 - 0.19)	(-0.11 - 0.29)	(-0.13 - 0.29)	(-0.12 - 0.19)	(-0.10 - 0.20)
60 Km+	0.07	0.12	0.14	0.16	0.00	0.08
	(-0.08 - 0.23)	(-0.04 - 0.28)	(-0.06 - 0.34)	(-0.06 - 0.38)	(-0.22 - 0.23)	(-0.14 - 0.30)
Co-Residence	0.20	0.22+	0.29	0.27	0.11	0.18
	(-0.06 - 0.46)	(-0.04 - 0.48)	(-0.14 - 0.71)	(-0.19 - 0.73)	(-0.18 - 0.40)	(-0.08 - 0.43)
Number of children (ref.: 1)						
2	0.02	0.07	-0.26	-0.29	0.26	0.38
	(-0.42 - 0.45)	(-0.47 - 0.61)	(-0.97 - 0.46)	(-1.04 - 0.47)	(-0.13 - 0.64)	(-0.19 - 0.95)
3+	0.00	0.03	-0.25	-0.31	0.20	0.32
	(-0.45 - 0.44)	(-0.54 - 0.61)	(-0.90 - 0.40)	(-0.99 - 0.38)	(-0.21 - 0.61)	(-0.31 - 0.95)
Age (centered)	0.05***	0.06***	0.05***	0.06***	0.05***	0.06***
	(0.04 - 0.06)	(0.05 - 0.07)	(0.04 - 0.07)	(0.04 - 0.07)	(0.03 - 0.06)	(0.04 - 0.07)
Marital status (ref.: Married)						
Never married	-0.16	-0.34	0.15	-0.19	-0.64	-0.65*
	(-0.83 - 0.50)	(-0.80 - 0.12)	(-0.25 - 0.54)	(-0.66 - 0.28)	(-1.49 - 0.21)	(-1.18 - -0.13)
Divorced	0.03	0.03	0.47	0.36	-0.16	-0.11
	(-0.53 - 0.59)	(-0.43 - 0.49)	(-0.19 - 1.13)	(-0.26 - 0.97)	(-0.81 - 0.49)	(-0.65 - 0.43)
Widowed	0.05	-0.02	0.10	-0.06	0.06	0.02
	(-0.11 - 0.20)	(-0.17 - 0.13)	(-0.20 - 0.39)	(-0.40 - 0.28)	(-0.12 - 0.23)	(-0.15 - 0.18)
Level of education (ref.: Low)						
Middle	-0.17	-0.06	0.03	0.08	-0.37	-0.22
	(-0.59 - 0.26)	(-0.46 - 0.35)	(-0.42 - 0.48)	(-0.41 - 0.58)	(-0.93 - 0.19)	(-0.77 - 0.33)
High	-0.28	-0.20	-0.01	0.06	-0.60	-0.51
	(-0.84 - 0.28)	(-0.74 - 0.34)	(-0.39 - 0.37)	(-0.32 - 0.44)	(-1.55 - 0.35)	(-1.41 - 0.39)

Income quartiles (ref.: 1st)						
2nd	0.04	0.03	0.04	0.04	0.03	0.03
	(-0.04 - 0.11)	(-0.04 - 0.11)	(-0.06 - 0.15)	(-0.08 - 0.15)	(-0.08 - 0.13)	(-0.08 - 0.13)
3rd	0.02	0.01	-0.06	-0.05	0.08	0.06
	(-0.06 - 0.10)	(-0.06 - 0.09)	(-0.16 - 0.05)	(-0.16 - 0.06)	(-0.03 - 0.19)	(-0.04 - 0.16)
4th	0.09*	0.07	0.05	0.03	0.12+	0.09
	(0.00 - 0.17)	(-0.02 - 0.15)	(-0.07 - 0.16)	(-0.09 - 0.16)	(-0.01 - 0.24)	(-0.02 - 0.20)
Constant	0.10	0.01	0.16	0.16	0.03	-0.14
	(-0.39 - 0.59)	(-0.58 - 0.59)	(-0.53 - 0.86)	(-0.57 - 0.89)	(-0.46 - 0.52)	(-0.79 - 0.51)
Observations	10,872	10,872	4,700	4,700	6,172	6,172
Number of parent-child dyads	4,985	4,985	2,184	2,184	2,801	2,801
Number of parents	2511	2511	1120	1120	1391	1391
Number of imputations	30	30	30	30	30	30
sigma_e	0.522	0.526	0.536	0.555	0.51	0.502
sigma_u	0.943	0.999	0.943	1.03	0.978	1.002
rho	0.765	0.783	0.756	0.775	0.786	0.799

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** p<0.001, ** p<0.01, * p<0.05, + p<0.10

Table A4. Fixed-effects linear regression models on parents' health (z-scores), whole sample. High values indicate poor health.

	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)			
-4/-2 years	0.17*	0.05	0.08
	(0.03 - 0.30)	(-0.05 - 0.15)	(-0.02 - 0.19)
-2/0 years	0.21**	0.04	0.23***
	(0.07 - 0.35)	(-0.07 - 0.14)	(0.11 - 0.34)
0/2 years	0.03	0.04	0.04
	(-0.12 - 0.17)	(-0.07 - 0.15)	(-0.06 - 0.15)
2/4 years	0.07	0.08	0.03
	(-0.09 - 0.23)	(-0.03 - 0.19)	(-0.08 - 0.14)
4/6 years	-0.04	0.03	0.06
	(-0.19 - 0.11)	(-0.06 - 0.12)	(-0.04 - 0.15)
Legally divorced (ref.: no)			
Yes	-0.01	0.05	0.02
	(-0.18 - 0.16)	(-0.06 - 0.16)	(-0.12 - 0.15)
Time since cohabitation (ref.: 0-2 years)			
2-4 years	-0.07	-0.04	-0.06*
	(-0.16 - 0.02)	(-0.11 - 0.02)	(-0.12 - -0.01)
4-6 years	-0.07	-0.04	-0.12***
	(-0.17 - 0.03)	(-0.11 - 0.03)	(-0.19 - -0.05)
6-8 years	-0.13*	-0.12**	-0.17***
	(-0.24 - -0.02)	(-0.19 - -0.04)	(-0.25 - -0.09)
8+ years	-0.07	-0.15**	-0.23***
	(-0.20 - 0.06)	(-0.24 - -0.06)	(-0.34 - -0.11)
Geographic distance between parent and children (ref.: 0-2 km)			
2-5 km	0.08	-0.02	0.03
	(-0.06 - 0.22)	(-0.10 - 0.06)	(-0.07 - 0.12)
5-10 km	-0.04	0.00	0.01
	(-0.23 - 0.15)	(-0.11 - 0.12)	(-0.13 - 0.15)
10-60 Km	-0.02	-0.04	0.06
	(-0.18 - 0.14)	(-0.13 - 0.05)	(-0.07 - 0.19)
60 Km+	-0.06	-0.01	0.07
	(-0.25 - 0.12)	(-0.12 - 0.11)	(-0.08 - 0.23)
Co-Residence	0.10	0.09	0.20
	(-0.18 - 0.38)	(-0.05 - 0.24)	(-0.06 - 0.46)
Number of children (ref.: 1)			
2	-0.13	0.04	0.03
	(-0.58 - 0.33)	(-0.20 - 0.29)	(-0.40 - 0.45)
3+	-0.13	0.04	0.00
	(-0.59 - 0.34)	(-0.20 - 0.29)	(-0.43 - 0.44)
Age (centered)	0.00	0.06***	0.05***
	(-0.01 - 0.01)	(0.05 - 0.07)	(0.04 - 0.06)
Marital status (ref.: Married)			
Never married	-0.35	-0.18+	-0.16
	(-1.01 - 0.32)	(-0.39 - 0.03)	(-0.83 - 0.51)
Divorced	-0.27	-0.21	0.04
	(-1.10 - 0.55)	(-0.47 - 0.04)	(-0.52 - 0.60)
Widowed	0.27*	0.03	0.05
	(0.05 - 0.48)	(-0.12 - 0.18)	(-0.11 - 0.20)
Level of education (ref.: Low)			
Middle	-0.12	0.04	-0.16
	(-0.55 - 0.31)	(-0.23 - 0.30)	(-0.58 - 0.27)
High	-0.24	0.15	-0.28
	(-0.66 - 0.18)	(-0.15 - 0.45)	(-0.84 - 0.29)
Income quartiles (ref.: 1st)			
2nd	0.06	-0.04	0.04
	(-0.03 - 0.16)	(-0.10 - 0.02)	(-0.04 - 0.11)
3rd	0.04	0.01	0.02

	(-0.07 - 0.15)	(-0.06 - 0.09)	(-0.06 - 0.10)
4th	0.12*	0.00	0.09*
	(0.00 - 0.23)	(-0.07 - 0.08)	(0.00 - 0.17)
*Interaction (Union Dissolution*Legal Divorce)*			
-4/-2 years * Legal Divorce	-0.24	0.04	-0.22
	(-0.56 - 0.08)	(-0.16 - 0.23)	(-0.53 - 0.10)
-2/0 years * Legal Divorce	-0.01	0.34**	-0.01
	(-0.36 - 0.33)	(0.10 - 0.58)	(-0.27 - 0.25)
0/2 years * Legal Divorce	0.19	-0.03	-0.04
	(-0.10 - 0.48)	(-0.21 - 0.14)	(-0.22 - 0.15)
2/4 years * Legal Divorce	-0.08	0.01	0.03
	(-0.35 - 0.20)	(-0.15 - 0.18)	(-0.18 - 0.23)
4/6 years * Legal Divorce	0.02	-0.01	0.04
	(-0.25 - 0.29)	(-0.17 - 0.15)	(-0.14 - 0.21)
Constant	0.14	5.50***	0.09
	(-0.34 - 0.62)	(5.23 - 5.77)	(-0.39 - 0.57)
Observations	10,872	10,872	10,872
Number of parent-child dyads	4,985	4,985	4,985
Number of parents	2,511	2,511	2,511
Number of imputations	30	30	30
sigma_e	0.687	0.453	0.522
sigma_u	0.882	0.793	0.943
rho	0.622	0.754	0.765

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** $p<0.001$, ** $p<0.01$, * $p<0.05$, + $p<0.10$

Table A5. Fixed-effects linear regression models on parents' health (z-scores). High values indicate poor health.

	Fathers			Mothers		
	Depression	Grip Strength (GS)	Frailty Index (FI)	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)						
-4/-2 years	-0.04	0.13+	0.02	0.24**	0.01	0.08
	(-0.23 - 0.15)	(-0.02 - 0.28)	(-0.14 - 0.17)	(0.07 - 0.41)	(-0.10 - 0.12)	(-0.04 - 0.21)
-2/0 years	0.19*	0.04	0.33***	0.21*	0.13*	0.14*
	(0.01 - 0.36)	(-0.12 - 0.20)	(0.15 - 0.51)	(0.03 - 0.39)	(0.01 - 0.25)	(0.02 - 0.26)
0/2 years	0.13	-0.01	0.10	0.04	0.08	0.00
	(-0.06 - 0.31)	(-0.15 - 0.12)	(-0.05 - 0.24)	(-0.14 - 0.21)	(-0.04 - 0.20)	(-0.12 - 0.11)
2/4 years	0.06	0.13+	0.10	0.03	0.05	0.00
	(-0.14 - 0.26)	(-0.01 - 0.26)	(-0.07 - 0.26)	(-0.15 - 0.20)	(-0.07 - 0.17)	(-0.11 - 0.11)
4/6 years	-0.03	0.02	0.14*	-0.04	0.04	0.01
	(-0.22 - 0.15)	(-0.08 - 0.12)	(0.02 - 0.26)	(-0.20 - 0.13)	(-0.07 - 0.15)	(-0.09 - 0.12)
Legally divorced (ref.: no)						
Yes	0.04	0.04	0.00	-0.05	0.10	0.00
	(-0.18 - 0.26)	(-0.12 - 0.19)	(-0.16 - 0.16)	(-0.27 - 0.17)	(-0.03 - 0.23)	(-0.17 - 0.17)
Time since cohabitation (ref.: 0-2 years)						
2-4 years	-0.14*	-0.01	-0.10*	-0.01	-0.08+	-0.03
	(-0.27 - -0.01)	(-0.10 - 0.09)	(-0.18 - -0.02)	(-0.14 - 0.12)	(-0.16 - 0.01)	(-0.10 - 0.05)
4-6 years	-0.14*	-0.01	-0.13*	-0.01	-0.07	-0.12*
	(-0.27 - -0.00)	(-0.12 - 0.10)	(-0.23 - -0.03)	(-0.15 - 0.12)	(-0.16 - 0.03)	(-0.21 - -0.02)
6-8 years	-0.19*	-0.10+	-0.20**	-0.08	-0.13*	-0.15**
	(-0.34 - -0.04)	(-0.22 - 0.02)	(-0.32 - -0.07)	(-0.23 - 0.07)	(-0.23 - -0.02)	(-0.26 - -0.04)
8+ years	-0.13	-0.11	-0.22*	-0.02	-0.18**	-0.24**
	(-0.32 - 0.06)	(-0.23 - 0.02)	(-0.39 - -0.04)	(-0.19 - 0.16)	(-0.30 - -0.06)	(-0.38 - -0.09)
Geographic distance between parent and children (ref.: 0-2 km)						
2-5 km	-0.02	0.00	-0.08	0.13	-0.04	0.08
	(-0.19 - 0.16)	(-0.13 - 0.12)	(-0.24 - 0.08)	(-0.07 - 0.32)	(-0.15 - 0.06)	(-0.03 - 0.20)
5-10 km	0.02	-0.01	-0.04	-0.08	-0.01	0.03
	(-0.23 - 0.27)	(-0.18 - 0.17)	(-0.29 - 0.22)	(-0.34 - 0.17)	(-0.16 - 0.14)	(-0.12 - 0.18)
10-60 Km	0.01	0.00	0.09	-0.04	-0.07	0.04
	(-0.23 - 0.25)	(-0.13 - 0.13)	(-0.11 - 0.29)	(-0.26 - 0.17)	(-0.19 - 0.05)	(-0.12 - 0.19)
60 Km+	-0.02	-0.02	0.14	-0.12	-0.01	0.00
	(-0.26 - 0.23)	(-0.17 - 0.12)	(-0.06 - 0.34)	(-0.38 - 0.14)	(-0.17 - 0.16)	(-0.22 - 0.23)
Co-Residence	0.01	0.08	0.29	0.15	0.11	0.11
	(-0.37 - 0.40)	(-0.10 - 0.27)	(-0.14 - 0.71)	(-0.28 - 0.58)	(-0.10 - 0.33)	(-0.18 - 0.40)
Number of children (ref.: 1)						
2	0.18	0.01	-0.26	-0.43	0.11	0.26
	(-0.20 - 0.56)	(-0.40 - 0.41)	(-0.97 - 0.46)	(-1.02 - 0.16)	(-0.19 - 0.40)	(-0.13 - 0.64)
3+	0.28+	0.02	-0.25	-0.48	0.10	0.20
	(-0.02 - 0.57)	(-0.37 - 0.42)	(-0.90 - 0.40)	(-1.07 - 0.12)	(-0.21 - 0.41)	(-0.21 - 0.61)
Age (centered)	0.01	0.06***	0.05***	-0.01	0.06***	0.05***
	(-0.00 - 0.03)	(0.05 - 0.07)	(0.04 - 0.07)	(-0.03 - 0.00)	(0.05 - 0.07)	(0.03 - 0.06)
Marital status (ref.: Married)						
Never married	-0.47*	-0.33*	0.15	-0.27	-0.09	-0.64
	(-0.89 - -0.05)	(-0.58 - -0.08)	(-0.25 - 0.54)	(-1.52 - 0.99)	(-0.27 - 0.09)	(-1.49 - 0.21)
Divorced	0.22	-0.26	0.47	-0.57	-0.23	-0.16
	(-0.63 - 1.07)	(-0.60 - 0.07)	(-0.19 - 1.13)	(-1.57 - 0.44)	(-0.55 - 0.08)	(-0.81 - 0.49)
Widowed	0.54***	0.04	0.10	0.23+	0.05	0.06
	(0.25 - 0.84)	(-0.13 - 0.21)	(-0.20 - 0.39)	(-0.03 - 0.50)	(-0.15 - 0.24)	(-0.12 - 0.23)
Level of education (ref.: Low)						
Middle	0.21	0.34+	0.03	-0.48*	-0.21	-0.37
	(-0.42 - 0.83)	(-0.02 - 0.70)	(-0.42 - 0.48)	(-0.95 - -0.01)	(-0.51 - 0.09)	(-0.93 - 0.19)
High	0.02	0.46*	-0.01	-0.46+	-0.11	-0.60

	(-0.66 - 0.69)	(0.10 - 0.81)	(-0.39 - 0.37)	(-0.97 - 0.05)	(-0.45 - 0.23)	(-1.55 - 0.35)
Income quartiles (ref.: 1st)						
2nd	0.10	-0.05	0.04	0.03	-0.04	0.03
	(-0.04 - 0.23)	(-0.15 - 0.05)	(-0.06 - 0.15)	(-0.11 - 0.16)	(-0.12 - 0.04)	(-0.08 - 0.13)
3rd	0.03	-0.01	-0.06	0.05	0.03	0.08
	(-0.11 - 0.16)	(-0.12 - 0.10)	(-0.16 - 0.05)	(-0.11 - 0.20)	(-0.07 - 0.12)	(-0.03 - 0.19)
4th	0.08	-0.07	0.05	0.14+	0.06	0.12+
	(-0.07 - 0.22)	(-0.19 - 0.05)	(-0.07 - 0.16)	(-0.03 - 0.30)	(-0.03 - 0.16)	(-0.01 - 0.24)
Constant	-0.37	5.25***	0.16	0.56+	5.62***	0.03
	(-0.86 - 0.13)	(4.82 - 5.68)	(-0.53 - 0.86)	(-0.04 - 1.16)	(5.29 - 5.95)	(-0.46 - 0.52)
Observations	4,700	4,700	4,700	6,172	6,172	6,172
Number of parent-child dyads	2,184	2,184	2,184	2,801	2,801	2,801
Number of parents	2,184	2,184	2,184	2,801	2,801	2,801
Number of imputations	30	30	30	30	30	30
sigma_e	0.679	0.438	0.536	0.69	0.464	0.51
sigma_u	0.894	0.794	0.943	0.917	0.81	0.978
rho	0.635	0.767	0.756	0.639	0.753	0.786

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** $p<0.001$, ** $p<0.01$, * $p<0.05$, + $p<0.10$

Table A6. Fixed-effects linear regression models on parents' health (z-scores). High values indicate poor health.

	Sons			Daughters		
	Depression	Grip Strength (GS)	Frailty Index (FI)	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's divorce (ref.: no separation, < 4 years pre-separation)						
-4/-2 years	0.15+	0.09	0.05	0.10	0.04	0.05
	(-0.01 - 0.31)	(-0.02 - 0.19)	(-0.09 - 0.19)	(-0.11 - 0.31)	(-0.11 - 0.18)	(-0.10 - 0.20)
-2/0 years	0.34***	0.13*	0.28***	0.04	0.04	0.14+
	(0.17 - 0.51)	(0.01 - 0.26)	(0.14 - 0.42)	(-0.14 - 0.23)	(-0.10 - 0.19)	(-0.01 - 0.28)
0/2 years	0.12	0.08	0.06	0.02	0.00	-0.01
	(-0.05 - 0.30)	(-0.05 - 0.20)	(-0.06 - 0.18)	(-0.16 - 0.20)	(-0.13 - 0.13)	(-0.14 - 0.12)
2/4 years	0.13	0.15*	0.05	-0.05	0.03	0.01
	(-0.05 - 0.30)	(0.03 - 0.28)	(-0.07 - 0.18)	(-0.24 - 0.15)	(-0.10 - 0.15)	(-0.13 - 0.15)
4/6 years	0.12	0.04	0.08	-0.18*	0.02	0.05
	(-0.05 - 0.29)	(-0.06 - 0.14)	(-0.03 - 0.19)	(-0.35 - -0.01)	(-0.10 - 0.13)	(-0.06 - 0.16)
Legally divorced (ref.: no)						
Yes	0.03	0.08	0.02	-0.04	0.06	0.01
	(-0.17 - 0.23)	(-0.05 - 0.21)	(-0.13 - 0.17)	(-0.31 - 0.23)	(-0.09 - 0.22)	(-0.18 - 0.19)
Time since cohabitation (ref.: 0-2 years)						
2-4 years	-0.14*	-0.03	-0.08*	0.00	-0.07	-0.04
	(-0.28 - -0.00)	(-0.12 - 0.05)	(-0.16 - -0.00)	(-0.12 - 0.13)	(-0.16 - 0.03)	(-0.12 - 0.03)
4-6 years	-0.15*	-0.07	-0.16***	0.02	-0.01	-0.08+
	(-0.29 - -0.01)	(-0.16 - 0.03)	(-0.25 - -0.06)	(-0.10 - 0.15)	(-0.12 - 0.10)	(-0.17 - 0.01)
6-8 years	-0.26**	-0.13**	-0.21***	0.00	-0.10+	-0.13*
	(-0.41 - -0.10)	(-0.23 - -0.03)	(-0.32 - -0.10)	(-0.13 - 0.14)	(-0.20 - 0.01)	(-0.23 - -0.03)
8+ years	-0.18*	-0.18**	-0.27***	0.05	-0.11+	-0.18**
	(-0.36 - -0.00)	(-0.30 - -0.06)	(-0.42 - -0.12)	(-0.11 - 0.21)	(-0.23 - 0.01)	(-0.31 - -0.06)
Geographic distance between parent and children (ref.: 0-2 km)						
2-5 km	0.14	-0.06	0.06	0.04	-0.01	0.00
	(-0.07 - 0.36)	(-0.18 - 0.07)	(-0.07 - 0.20)	(-0.13 - 0.21)	(-0.12 - 0.09)	(-0.14 - 0.13)
5-10 km	-0.09	-0.08	-0.02	0.02	0.05	0.02
	(-0.35 - 0.17)	(-0.23 - 0.07)	(-0.20 - 0.17)	(-0.22 - 0.26)	(-0.11 - 0.21)	(-0.16 - 0.20)
10-60 Km	-0.03	-0.07	0.07	-0.04	-0.04	0.05
	(-0.27 - 0.22)	(-0.19 - 0.05)	(-0.10 - 0.24)	(-0.24 - 0.16)	(-0.17 - 0.09)	(-0.13 - 0.22)
60 Km+	-0.16	0.00	0.01	0.04	-0.04	0.14
	(-0.45 - 0.14)	(-0.16 - 0.17)	(-0.22 - 0.23)	(-0.18 - 0.25)	(-0.19 - 0.11)	(-0.06 - 0.33)
Co-Residence	-0.13	-0.06	0.09	0.35*	0.24**	0.33+
	(-0.54 - 0.28)	(-0.25 - 0.14)	(-0.27 - 0.45)	(0.02 - 0.67)	(0.07 - 0.40)	(-0.03 - 0.69)
Number of children (ref.: 1)						
2	-0.50	-0.01	-0.31	0.11	0.13	0.24
	(-1.17 - 0.17)	(-0.44 - 0.42)	(-0.94 - 0.32)	(-0.28 - 0.50)	(-0.14 - 0.40)	(-0.18 - 0.65)
3+	-0.39	0.02	-0.17	0.02	0.09	0.04
	(-1.04 - 0.25)	(-0.39 - 0.43)	(-0.79 - 0.44)	(-0.40 - 0.43)	(-0.18 - 0.36)	(-0.37 - 0.45)
Age (centered)	0.01	0.07***	0.05***	-0.01	0.06***	0.05***
	(-0.01 - 0.02)	(0.06 - 0.07)	(0.04 - 0.07)	(-0.02 - 0.01)	(0.05 - 0.07)	(0.03 - 0.06)
Marital status (ref.: Married)						

Never married	-0.26	-0.30	0.12	-0.42	-0.10	-0.46
	(-0.88 - 0.37)	(-0.66 - 0.06)	(-0.26 - 0.50)	(-1.46 - 0.62)	(-0.30 - 0.09)	(-1.38 - 0.45)
Divorced	-0.45	-0.20	-0.14	-0.18	-0.23	0.14
	(-1.77 - 0.87)	(-0.50 - 0.10)	(-0.85 - 0.57)	(-0.76 - 0.40)	(-0.57 - 0.11)	(-0.45 - 0.73)
Widowed	0.29*	0.13	0.10	0.25*	-0.04	0.01
	(0.03 - 0.56)	(-0.06 - 0.32)	(-0.09 - 0.29)	(0.01 - 0.48)	(-0.19 - 0.10)	(-0.16 - 0.17)
Level of education (ref.: Low)						
Middle	0.04	0.06	-0.03	-0.29	0.00	-0.28
	(-0.59 - 0.67)	(-0.28 - 0.40)	(-0.45 - 0.39)	(-0.72 - 0.13)	(-0.33 - 0.32)	(-0.86 - 0.29)
High	0.01	0.28	-0.09	-0.50*	0.05	-0.47
	(-0.47 - 0.48)	(-0.12 - 0.67)	(-0.54 - 0.36)	(-0.99 - -0.00)	(-0.24 - 0.34)	(-1.24 - 0.30)
Income quartiles (ref.: 1st)						
2nd	0.07	-0.03	0.02	0.06	-0.06	0.05
	(-0.05 - 0.19)	(-0.10 - 0.05)	(-0.07 - 0.11)	(-0.05 - 0.17)	(-0.13 - 0.02)	(-0.04 - 0.14)
3rd	0.03	0.02	0.02	0.05	0.00	0.02
	(-0.09 - 0.16)	(-0.06 - 0.10)	(-0.07 - 0.11)	(-0.08 - 0.17)	(-0.09 - 0.08)	(-0.07 - 0.11)
4th	0.12+	0.01	0.10*	0.11+	-0.01	0.08
	(-0.02 - 0.26)	(-0.08 - 0.10)	(0.00 - 0.19)	(-0.02 - 0.24)	(-0.09 - 0.08)	(-0.02 - 0.18)
Constant	0.46	5.51***	0.30	-0.05	5.47***	0.02
	(-0.21 - 1.12)	(5.08 - 5.94)	(-0.33 - 0.93)	(-0.52 - 0.41)	(5.17 - 5.78)	(-0.50 - 0.54)
Observations	5,302	5,302	5,302	5,570	5,570	5,570
Number of parent-child dyads	2,428	2,428	2,428	2,557	2,557	2,557
Number of parents	1,689	1,689	1,689	1,817	1,817	1,817
Number of imputations	30	30	30	30	30	30
sigma_e	0.696	0.445	0.539	0.678	0.461	0.506
sigma_u	0.894	0.813	0.963	0.897	0.78	0.94
rho	0.623	0.769	0.761	0.636	0.741	0.775

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** p<0.001, ** p<0.01, * p<0.05, + p<0.10

Table A7. Fixed-effects linear regression models on parents' health (z-scores), whole sample. High values indicate poor health.

	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)			
-4/-2 years	-0.04	0.13+	0.02
	(-0.23 - 0.15)	(-0.02 - 0.28)	(-0.14 - 0.17)
-2/0 years	0.19*	0.04	0.33***
	(0.01 - 0.36)	(-0.12 - 0.20)	(0.15 - 0.51)
0/2 years	0.13	-0.01	0.10
	(-0.06 - 0.31)	(-0.15 - 0.12)	(-0.05 - 0.24)
2/4 years	0.06	0.13+	0.10
	(-0.14 - 0.26)	(-0.01 - 0.26)	(-0.07 - 0.26)
4/6 years	-0.03	0.02	0.14*
	(-0.22 - 0.15)	(-0.08 - 0.12)	(0.02 - 0.26)
Legally divorced (ref.: no)			
Yes	0.04	0.04	0.00
	(-0.18 - 0.26)	(-0.12 - 0.19)	(-0.16 - 0.16)
Time since cohabitation (ref.: 0-2 years)			
2-4 years	-0.14*	-0.01	-0.10*
	(-0.27 - -0.01)	(-0.10 - 0.09)	(-0.18 - -0.02)
4-6 years	-0.14*	-0.01	-0.13*
	(-0.27 - -0.00)	(-0.12 - 0.10)	(-0.23 - -0.03)
6-8 years	-0.19*	-0.10+	-0.20**
	(-0.34 - -0.04)	(-0.22 - 0.02)	(-0.32 - -0.07)
8+ years	-0.13	-0.11	-0.22*
	(-0.32 - 0.06)	(-0.23 - 0.02)	(-0.39 - -0.04)
Geographic distance between parent and children (ref.: 0-2 km)			
2-5 km	-0.02	0.00	-0.08
	(-0.19 - 0.16)	(-0.13 - 0.12)	(-0.24 - 0.08)
5-10 km	0.02	-0.01	-0.04
	(-0.23 - 0.27)	(-0.18 - 0.17)	(-0.29 - 0.22)
10-60 Km	0.01	0.00	0.09
	(-0.23 - 0.25)	(-0.13 - 0.13)	(-0.11 - 0.29)
60 Km+	-0.02	-0.02	0.14
	(-0.26 - 0.23)	(-0.17 - 0.12)	(-0.06 - 0.34)
Co-Residence	0.01	0.08	0.29
	(-0.37 - 0.40)	(-0.10 - 0.27)	(-0.14 - 0.71)
Number of children (ref.: 1)			
2	0.18	0.01	-0.26
	(-0.20 - 0.56)	(-0.40 - 0.41)	(-0.97 - 0.46)
3+	0.28+	0.02	-0.25
	(-0.02 - 0.57)	(-0.37 - 0.42)	(-0.90 - 0.40)
Age (centered)	0.01	0.06***	0.05***
	(-0.00 - 0.03)	(0.05 - 0.07)	(0.04 - 0.07)
Marital status (ref.: Married)			
Never married	-0.47*	-0.33*	0.15
	(-0.89 - -0.06)	(-0.58 - -0.08)	(-0.25 - 0.54)
Divorced	0.22	-0.26	0.47
	(-0.63 - 1.06)	(-0.60 - 0.07)	(-0.19 - 1.13)
Widowed	0.54***	0.04	0.10
	(0.25 - 0.84)	(-0.12 - 0.21)	(-0.20 - 0.39)
Level of education (ref.: Low)			
Middle	0.21	0.34+	0.03
	(-0.41 - 0.83)	(-0.02 - 0.70)	(-0.42 - 0.48)
High	0.02	0.46*	-0.01
	(-0.66 - 0.69)	(0.10 - 0.81)	(-0.39 - 0.37)
Income quartiles (ref.: 1st)			
2nd	0.10	-0.05	0.04
	(-0.04 - 0.23)	(-0.15 - 0.05)	(-0.06 - 0.15)
3rd	0.03	-0.01	-0.06
	(-0.11 - 0.16)	(-0.12 - 0.10)	(-0.16 - 0.05)

4th	0.08	-0.07	0.05
	(-0.07 - 0.22)	(-0.19 - 0.05)	(-0.07 - 0.16)
*Interaction: Parent's gender * Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)*			
Mother * -4/-2 years	0.28*	-0.12	0.07
	(0.03 - 0.54)	(-0.30 - 0.07)	(-0.13 - 0.26)
Mother * -2/0 years	0.02	0.09	-0.19+
	(-0.23 - 0.28)	(-0.11 - 0.29)	(-0.41 - 0.03)
Mother * 0/2 years	-0.09	0.09	-0.10
	(-0.35 - 0.17)	(-0.09 - 0.27)	(-0.28 - 0.08)
Mother * 2/4 years	-0.03	-0.07	-0.10
	(-0.30 - 0.23)	(-0.25 - 0.10)	(-0.29 - 0.10)
Mother * 4/6 years	0.00	0.02	-0.13
	(-0.25 - 0.25)	(-0.13 - 0.17)	(-0.29 - 0.03)
*Interaction: Parent's gender * Legally divorced (ref.: no)*			
Mother * Yes	-0.09	0.06	0.00
	(-0.40 - 0.22)	(-0.14 - 0.26)	(-0.23 - 0.23)
*Interaction: Parent's gender * Time since cohabitation (ref.: 0-2 years)*			
Mother * 2-4 years	0.13	-0.07	0.08
	(-0.06 - 0.31)	(-0.19 - 0.06)	(-0.04 - 0.19)
Mother * 4-6 years	0.12	-0.06	0.01
	(-0.07 - 0.32)	(-0.20 - 0.09)	(-0.13 - 0.15)
Mother * 6-8 years	0.11	-0.02	0.05
	(-0.10 - 0.33)	(-0.18 - 0.13)	(-0.12 - 0.22)
Mother * 8+ years	0.12	-0.07	-0.02
	(-0.14 - 0.37)	(-0.25 - 0.10)	(-0.24 - 0.21)
*Interaction: Parent's gender * Geographic distance between parent and children (ref.: 0-2 km)*			
Mother * 2-5 km	0.14	-0.04	0.17+
	(-0.12 - 0.41)	(-0.21 - 0.13)	(-0.03 - 0.36)
Mother * 5-10 km	-0.10	0.00	0.07
	(-0.46 - 0.26)	(-0.23 - 0.22)	(-0.23 - 0.36)
Mother * 10-60 Km	-0.06	-0.07	-0.06
	(-0.38 - 0.27)	(-0.25 - 0.11)	(-0.31 - 0.20)
Mother * 60 Km+	-0.10	0.02	-0.14
	(-0.46 - 0.26)	(-0.20 - 0.24)	(-0.43 - 0.16)
Mother * Co-Residence	0.13	0.03	-0.17
	(-0.44 - 0.71)	(-0.25 - 0.31)	(-0.69 - 0.34)
*Interaction: Parent's gender * Number of children (ref.: 1)*			
Mother * 2	-0.62+	0.10	0.51
	(-1.31 - 0.08)	(-0.40 - 0.60)	(-0.30 - 1.33)
Mother * 3+	-0.75*	0.07	0.45
	(-1.42 - -0.09)	(-0.43 - 0.58)	(-0.32 - 1.22)
*Mother * Age (centered)*	-0.02*	0.00	0.00
	(-0.04 - -0.00)	(-0.02 - 0.01)	(-0.03 - 0.02)
*Interaction: Parent's gender * Marital status (ref.: Married)*			
Mother * Never married	0.21	0.24	-0.79+
	(-1.11 - 1.52)	(-0.07 - 0.55)	(-1.72 - 0.15)
Mother * Divorced	-0.78	0.03	-0.63
	(-2.10 - 0.53)	(-0.43 - 0.49)	(-1.56 - 0.30)
Mother * Widowed	-0.31	0.00	-0.04
	(-0.71 - 0.08)	(-0.25 - 0.26)	(-0.38 - 0.30)
*Interaction: Parent's gender * Level of education (ref.: Low)*			
Mother * Middle	-0.69+	-0.55*	-0.40
	(-1.47 - 0.09)	(-1.02 - -0.08)	(-1.12 - 0.32)
Mother * High	-0.48	-0.57*	-0.59
	(-1.32 - 0.37)	(-1.06 - -0.07)	(-1.61 - 0.44)
*Interaction: Parent's gender * Income quartiles (ref.: 1st)*			
Mother * 2nd	-0.07	0.01	-0.02
	(-0.26 - 0.12)	(-0.12 - 0.13)	(-0.17 - 0.13)
Mother * 3rd	0.02	0.04	0.13+

	(-0.18 - 0.23)	(-0.11 - 0.18)	(-0.01 - 0.28)
Mother * 4th	0.06	0.13+	0.07
	(-0.16 - 0.28)	(-0.02 - 0.29)	(-0.10 - 0.24)
Constant	0.16	5.46***	0.09
	(-0.24 - 0.56)	(5.19 - 5.72)	(-0.32 - 0.50)
Observations	10,872	10,872	10,872
Number of parent-child dyads	4,985	4,985	4,985
Number of parents	2,511	2,511	2,511
Number of imputations	30	30	30
sigma_e	0.685	0.453	0.521
sigma_u	1.019	0.824	0.965
rho	0.688	0.768	0.774

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** p<0.001, ** p<0.01, * p<0.05, + p<0.10

Table A8. Fixed-effects linear regression models on parents' health (z-scores), whole sample. High values indicate poor health.

	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)			
-4/-2 years	0.15+	0.09	0.05
	(-0.01 - 0.31)	(-0.02 - 0.19)	(-0.09 - 0.19)
-2/0 years	0.34***	0.13*	0.28***
	(0.17 - 0.51)	(0.01 - 0.26)	(0.14 - 0.42)
0/2 years	0.12	0.08	0.06
	(-0.05 - 0.30)	(-0.05 - 0.20)	(-0.06 - 0.18)
2/4 years	0.13	0.15*	0.05
	(-0.05 - 0.30)	(0.03 - 0.28)	(-0.07 - 0.18)
4/6 years	0.12	0.04	0.08
	(-0.05 - 0.29)	(-0.06 - 0.14)	(-0.03 - 0.19)
Legally divorced (ref.: no)			
Yes	0.03	0.08	0.02
	(-0.17 - 0.23)	(-0.05 - 0.21)	(-0.13 - 0.17)
Time since cohabitation (ref.: 0-2 years)			
2-4 years	-0.14*	-0.03	-0.08*
	(-0.28 - -0.00)	(-0.12 - 0.05)	(-0.16 - -0.00)
4-6 years	-0.15*	-0.07	-0.16***
	(-0.29 - -0.01)	(-0.16 - 0.03)	(-0.25 - -0.06)
6-8 years	-0.26**	-0.13**	-0.21***
	(-0.41 - -0.10)	(-0.23 - -0.03)	(-0.32 - -0.10)
8+ years	-0.18*	-0.18**	-0.27***
	(-0.36 - -0.00)	(-0.30 - -0.06)	(-0.42 - -0.12)
Geographic distance between parent and children (ref.: 0-2 km)			
2-5 km	0.14	-0.06	0.06
	(-0.07 - 0.36)	(-0.18 - 0.07)	(-0.07 - 0.20)
5-10 km	-0.09	-0.08	-0.02
	(-0.35 - 0.17)	(-0.23 - 0.07)	(-0.20 - 0.17)
10-60 Km	-0.03	-0.07	0.07
	(-0.27 - 0.22)	(-0.19 - 0.05)	(-0.10 - 0.24)
60 Km+	-0.16	0.00	0.01
	(-0.45 - 0.14)	(-0.16 - 0.17)	(-0.22 - 0.23)
Co-Residence	-0.13	-0.06	0.09
	(-0.54 - 0.28)	(-0.25 - 0.14)	(-0.27 - 0.45)
Number of children (ref.: 1)			
2	-0.50	-0.01	-0.31
	(-1.17 - 0.17)	(-0.44 - 0.42)	(-0.94 - 0.32)
3+	-0.39	0.02	-0.17
	(-1.04 - 0.25)	(-0.39 - 0.43)	(-0.79 - 0.44)
Age (centered)	0.01	0.07***	0.05***
	(-0.01 - 0.02)	(0.06 - 0.07)	(0.04 - 0.07)
Marital status (ref.: Married)			
Never married	-0.26	-0.30	0.12
	(-0.88 - 0.37)	(-0.66 - 0.06)	(-0.26 - 0.50)
Divorced	-0.45	-0.20	-0.14
	(-1.77 - 0.87)	(-0.50 - 0.10)	(-0.85 - 0.57)
Widowed	0.29*	0.13	0.10
	(0.03 - 0.56)	(-0.06 - 0.32)	(-0.09 - 0.29)
Level of education (ref.: Low)			
Middle	0.04	0.06	-0.03
	(-0.59 - 0.67)	(-0.28 - 0.40)	(-0.45 - 0.39)
High	0.01	0.28	-0.09
	(-0.46 - 0.48)	(-0.12 - 0.67)	(-0.54 - 0.36)
Income quartiles (ref.: 1st)			
2nd	0.07	-0.03	0.02
	(-0.05 - 0.19)	(-0.10 - 0.05)	(-0.07 - 0.11)
3rd	0.03	0.02	0.02
	(-0.09 - 0.16)	(-0.06 - 0.10)	(-0.07 - 0.11)

4th	0.12+	0.01	0.10*
	(-0.02 - 0.26)	(-0.08 - 0.10)	(0.00 - 0.19)

*Interaction: Child's gender * Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)*

Daugther * -4/-2 years	-0.05	-0.05	0.00
	(-0.31 - 0.21)	(-0.23 - 0.13)	(-0.21 - 0.21)
Daugther * -2/0 years	-0.30*	-0.09	-0.14
	(-0.54 - -0.05)	(-0.28 - 0.11)	(-0.34 - 0.05)
Daugther * 0/2 years	-0.10	-0.08	-0.07
	(-0.35 - 0.15)	(-0.26 - 0.10)	(-0.24 - 0.11)
Daugther * 2/4 years	-0.17	-0.13	-0.04
	(-0.43 - 0.09)	(-0.31 - 0.05)	(-0.23 - 0.14)
*Daugther * 4/6 years*	-0.30*	-0.02	-0.03
	(-0.54 - -0.07)	(-0.18 - 0.13)	(-0.19 - 0.12)

*Interaction: Child's gender * Legally divorced (ref.: no)*

Daugther * Yes	-0.07	-0.02	-0.01
	(-0.41 - 0.27)	(-0.22 - 0.19)	(-0.25 - 0.23)

*Interaction: Child's gender * Time since cohabitation (ref.: 0-2 years)*

Daugther * 2-4 years	0.15	-0.04	0.04
	(-0.04 - 0.34)	(-0.16 - 0.09)	(-0.07 - 0.15)
Daugther * 4-6 years	0.17+	0.06	0.08
	(-0.01 - 0.36)	(-0.08 - 0.19)	(-0.04 - 0.20)
Daugther * 6-8 years	0.26**	0.03	0.08
	(0.07 - 0.46)	(-0.10 - 0.17)	(-0.05 - 0.22)
Daugther * 8+ years	0.23*	0.07	0.09
	(0.01 - 0.45)	(-0.08 - 0.22)	(-0.08 - 0.26)

*Interaction: Child's gender * Geographic distance between parent and children (ref.: 0-2 km)*

Daugther * 2-5 km	-0.10	0.04	-0.07
	(-0.36 - 0.16)	(-0.12 - 0.21)	(-0.26 - 0.13)
Daugther * 5-10 km	0.11	0.14	0.04
	(-0.21 - 0.43)	(-0.07 - 0.34)	(-0.19 - 0.26)
Daugther * 10-60 Km	-0.01	0.04	-0.02
	(-0.32 - 0.29)	(-0.14 - 0.21)	(-0.25 - 0.20)
Daugther * 60 Km+	0.19	-0.04	0.13
	(-0.17 - 0.56)	(-0.27 - 0.18)	(-0.16 - 0.42)
Daugther * Co-Residence	0.48+	0.29*	0.24
	(-0.03 - 0.98)	(0.05 - 0.54)	(-0.25 - 0.74)

*Interaction: Child's gender * Number of children (ref.: 1)*

Daugther * 2	0.61*	0.14	0.55+
	(0.02 - 1.20)	(-0.33 - 0.60)	(-0.05 - 1.15)
Daugther * 3+	0.41	0.07	0.22
	(-0.12 - 0.93)	(-0.36 - 0.50)	(-0.32 - 0.75)
Daugther * Age (centered)	-0.01	-0.01*	-0.01
	(-0.03 - 0.00)	(-0.02 - -0.00)	(-0.02 - 0.00)

*Interaction: Child's gender * Marital status (ref.: Married)*

Daugther * Never married	-0.16	0.20	-0.59
	(-1.11 - 0.78)	(-0.07 - 0.46)	(-1.56 - 0.38)
Daugther * Divorced	0.27	-0.03	0.28
	(-0.78 - 1.32)	(-0.44 - 0.39)	(-0.42 - 0.98)
Daugther * Widowed	-0.05	-0.17*	-0.09
	(-0.29 - 0.20)	(-0.34 - -0.01)	(-0.28 - 0.09)

*Interaction: Child's gender * Level of education (ref.: Low)*

Daugther * Middle	-0.33	-0.06	-0.26
	(-0.93 - 0.27)	(-0.44 - 0.32)	(-0.79 - 0.28)
Daugther * High	-0.50+	-0.23	-0.37
	(-1.05 - 0.05)	(-0.56 - 0.10)	(-1.00 - 0.25)

*Interaction: Child's gender * Income quartiles (ref.: 1st)*

Daugther * 2nd	-0.01	-0.03	0.03
	(-0.13 - 0.12)	(-0.10 - 0.04)	(-0.06 - 0.12)
Daugther * 3rd	0.02	-0.03	0.00
	(-0.12 - 0.15)	(-0.10 - 0.05)	(-0.10 - 0.09)
Daugther * 4th	-0.01	-0.02	-0.02
	(-0.15 - 0.14)	(-0.11 - 0.07)	(-0.12 - 0.07)
Constant	0.20	5.49***	0.16
	(-0.28 - 0.68)	(5.20 - 5.78)	(-0.33 - 0.64)
Observations	10,872	10,872	10,872
Number of parent-child dyads	4,985	4,985	4,985
Number of parents	2,511	2,511	2,511
Number of imputations	30	30	30
sigma_e	0.687	0.453	0.522
sigma_u	0.928	0.797	0.961
rho	0.646	0.755	0.772

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** $p<0.001$, ** $p<0.01$, * $p<0.05$, + $p<0.10$

Table A9. Fixed-effects linear regression models on parents' health (z-scores), whole sample. High values indicate poor health.

	Depression	Grip Strength (GS)	Frailty Index (FI)
Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)			
-4/-2 years	0.01	0.19*	0.00
	(-0.27 - 0.29)	(0.02 - 0.36)	(-0.24 - 0.24)
-2/0 years	0.30*	0.12	0.41**
	(0.05 - 0.55)	(-0.08 - 0.33)	(0.14 - 0.68)
0/2 years	0.10	0.01	0.10
	(-0.17 - 0.37)	(-0.18 - 0.21)	(-0.07 - 0.27)
2/4 years	0.06	0.16	0.14
	(-0.19 - 0.30)	(-0.05 - 0.37)	(-0.06 - 0.34)
4/6 years	0.15	0.09	0.10
	(-0.10 - 0.40)	(-0.05 - 0.24)	(-0.07 - 0.27)
*Interaction: Parent's gender * Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)*			
Mother * -4/-2 years	0.22	-0.17	0.08
	(-0.11 - 0.56)	(-0.38 - 0.04)	(-0.21 - 0.37)
Mother * -2/0 years	0.08	0.00	-0.20
	(-0.26 - 0.42)	(-0.25 - 0.26)	(-0.51 - 0.10)
Mother * 0/2 years	0.02	0.10	-0.07
	(-0.34 - 0.38)	(-0.15 - 0.35)	(-0.30 - 0.16)
Mother * 2/4 years	0.11	-0.03	-0.16
	(-0.22 - 0.44)	(-0.29 - 0.23)	(-0.41 - 0.10)
Mother * 4/6 years	-0.08	-0.10	-0.05
	(-0.41 - 0.25)	(-0.30 - 0.10)	(-0.26 - 0.17)
*Interaction: Child's gender * Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)*			
Daugther * -4/-2 years	-0.09	-0.12	0.01
	(-0.50 - 0.31)	(-0.42 - 0.18)	(-0.32 - 0.34)
Daugther * -2/0 years	-0.28	-0.17	-0.22
	(-0.64 - 0.09)	(-0.46 - 0.13)	(-0.53 - 0.10)
Daugther * 0/2 years	0.02	-0.06	-0.04
	(-0.35 - 0.40)	(-0.34 - 0.22)	(-0.31 - 0.23)
Daugther * 2/4 years	0.00	-0.08	-0.11
	(-0.39 - 0.38)	(-0.35 - 0.20)	(-0.43 - 0.21)
*Daugther * 4/6 years*	-0.36*	-0.15	0.05
	(-0.71 - -0.00)	(-0.38 - 0.07)	(-0.18 - 0.29)
*Interaction: Parent's gender * Child's gender * Time before/after child's union dissolution (ref.: no separation, < 4 years pre-separation)*			
Mother * Daugther * -4/-2 years	0.15	0.10	0.00
	(-0.39 - 0.69)	(-0.27 - 0.47)	(-0.43 - 0.44)
Mother * Daugther * -2/0 years	-0.01	0.17	0.11
	(-0.51 - 0.49)	(-0.21 - 0.55)	(-0.30 - 0.51)
Mother * Daugther * 0/2 years	-0.15	-0.01	-0.02
	(-0.65 - 0.35)	(-0.37 - 0.35)	(-0.38 - 0.33)
Mother * Daugther * 2/4 years	-0.22	-0.07	0.15
	(-0.74 - 0.29)	(-0.42 - 0.29)	(-0.24 - 0.54)
Mother * Daugther * 4/6 years	0.17	0.24	-0.13
	(-0.30 - 0.64)	(-0.07 - 0.56)	(-0.44 - 0.17)
Legally divorced (ref.: no)			
Yes	-0.01	0.07	0.01
	(-0.17 - 0.14)	(-0.03 - 0.17)	(-0.11 - 0.13)
Time since cohabitation (ref.: 0-2 years)			
2-4 years	-0.07	-0.04	-0.06*
	(-0.16 - 0.02)	(-0.11 - 0.02)	(-0.12 - -0.00)
4-6 years	-0.07	-0.04	-0.12***
	(-0.16 - 0.03)	(-0.11 - 0.03)	(-0.19 - -0.05)
6-8 years	-0.13*	-0.11**	-0.17***
	(-0.24 - -0.02)	(-0.19 - -0.04)	(-0.25 - -0.08)
8+ years	-0.07	-0.15**	-0.22***
	(-0.20 - 0.06)	(-0.23 - -0.06)	(-0.33 - -0.11)
Geographic distance between parent and children (ref.: 0-2 km)			

2-5 km	0.09	-0.02	0.03
	(-0.05 - 0.23)	(-0.11 - 0.06)	(-0.07 - 0.12)
5-10 km	-0.03	0.00	0.01
	(-0.21 - 0.16)	(-0.12 - 0.11)	(-0.14 - 0.15)
10-60 Km	-0.02	-0.04	0.07
	(-0.18 - 0.14)	(-0.13 - 0.05)	(-0.06 - 0.19)
60 Km+	-0.05	-0.01	0.08
	(-0.23 - 0.13)	(-0.12 - 0.10)	(-0.07 - 0.23)
Co-Residence	0.09	0.10	0.21
	(-0.19 - 0.38)	(-0.04 - 0.24)	(-0.06 - 0.47)
Number of children (ref.: 1)			
2	-0.12	0.08	0.02
	(-0.58 - 0.33)	(-0.18 - 0.33)	(-0.41 - 0.46)
3+	-0.13	0.08	-0.01
	(-0.60 - 0.34)	(-0.17 - 0.33)	(-0.45 - 0.43)
Age (centered)	0.00	0.06***	0.05***
	(-0.01 - 0.01)	(0.05 - 0.07)	(0.04 - 0.06)
Marital status (ref.: Married)			
Never married	-0.34	-0.20+	-0.15
	(-1.00 - 0.32)	(-0.41 - 0.02)	(-0.79 - 0.49)
Divorced	-0.26	-0.21	0.04
	(-1.08 - 0.56)	(-0.47 - 0.05)	(-0.52 - 0.60)
Widowed	0.27*	0.03	0.05
	(0.06 - 0.49)	(-0.12 - 0.18)	(-0.10 - 0.20)
Level of education (ref.: Low)			
Middle	-0.13	0.03	-0.17
	(-0.55 - 0.30)	(-0.23 - 0.30)	(-0.59 - 0.25)
High	-0.25	0.15	-0.28
	(-0.67 - 0.17)	(-0.15 - 0.45)	(-0.85 - 0.28)
Income quartiles (ref.: 1st)			
2nd	0.06	-0.04	0.04
	(-0.03 - 0.16)	(-0.11 - 0.02)	(-0.04 - 0.11)
3rd	0.04	0.01	0.02
	(-0.06 - 0.15)	(-0.06 - 0.08)	(-0.06 - 0.10)
4th	0.11*	0.00	0.09*
	(0.00 - 0.23)	(-0.07 - 0.08)	(0.00 - 0.17)
Constant	0.13	5.47***	0.10
	(-0.35 - 0.61)	(5.19 - 5.74)	(-0.39 - 0.58)
Observations	10,872	10,872	10,872
Number of parent-child dyads	4,985	4,985	4,985
Number of parents	2,511	2,511	2,511
Number of imputations	30	30	30
sigma_e	0.687	0.453	0.523
sigma_u	0.882	0.794	0.944
rho	0.623	0.754	0.765

Notes: 95% confidence intervals in parentheses. Ref.: reference category. *** p<0.001, ** p<0.01, * p<0.05, + p<0.10