Data supplement to Demakakos et al. Parenting style in childhood and mortality risk at old age: a longitudinal cohort study. Br J Psychiatry doi: 10.1192/bjp.bp.115.163543

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Table DS5 presents the associations between parenting style score quartiles and all-cause and cause-specific mortality after adjustment for self-reported childhood health problems. Models are adjusted for all covariates used in the main analyses and in addition for self-reported childhood health problems that are known to affect parenting (i.e. epilepsy, asthma, diabetes, hearing problems, limiting disability, and emotional, nervous, or psychiatric problems at age <16 years) (n=1,964; n of deaths=243).

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Table DS8 presents the association between parenting style score quartiles and all-cause mortality after the exclusion of deaths that occurred within the first 24 months after the baseline (n=1,891; n of deaths=170).

Table DS9 presents key baseline characteristics according to various categories of non-response (n=3,275). The sample in this analysis consists of everyone who was 64 to 79 years in ELSA wave 3 (during 2006-07) or participated in the Life History Interview in 2007, and could had been included in our study should they had complete data. This analysis aims to provide additional information about non-response in our data.

Table DS1. Information on the Distribution of the Parenting Style Scales and Subscales Scores							
	Mean	SD [*]	Median	Min	Max		
Parenting Style (overall)	30.6	5.7	31	6	42		
Maternal Parenting Style	15.4	3.3	16	1	21		
Paternal Parenting Style	15.2	3.2	15.5	0	21		
Parental Care	13.8	3.1	14	0	18		
Parental Overprotection	16.8	3.3	17	2	24		
Maternal Care	7.1	1.8	8	0	9		
Maternal Overprotection	8.4	1.9	8	0	12		
Paternal Care	6.7	1.8	7	0	9		
Paternal Overprotection	8.5	1.8	8	0	12		
*Standard Deviation							

		Parenting style so	ore quartiles [*]	
	Optimal	Second optimal	Second poorest	Poorest
All-cause mortality	•	•	•	
No of deaths	46	47	56	66
Deaths / 1000 person years	17.4 (13.0 to 23.2)	20.6 (15.5 to 27.5)	23.5 (18.0 to 30.5)	25.8 (20.3 to 32.8)
Model 1 HR (95% CI) †	1.00 (reference)	1.19 (0.79 to 1.78)	1.35 (0.91 to 1.99)	1.49 (1.02 to 2.17)
Model 2 HR (95% Cl) [‡]	1.00 (reference)	1.20 (0.80 to 1.80)	1.37 (0.93 to 2.02)	1.70 (1.16 to 2.48)
Model 3 HR (95% Cl) [§]	1.00 (reference)	1.15 (0.76 to 1.73)	1.27 (0.86 to 1.88)	1.55 (1.06 to 2.27)
Model 4 HR (95% CI) [¶]	1.00 (reference)	1.18 (0.78 to 1.78)	1.27 (0.85 to 1.89)	1.45 (0.98 to 2.16)
Cardiovascular mortality				
No of deaths	17	11	12	15
Deaths / 1000 person years	6.4 (4.0 to 10.3)	4.8 (2.7 to 8.7)	5.0 (2.9 to 8.9)	5.9 (3.5 to 9.7)
Model 1 HR (95% CI) †	1.00 (reference)	0.75 (0.35 to 1.60)	0.78 (0.37 to 1.64)	0.92 (0.46 to 1.83)
Model 2 HR (95% Cl) [‡]	1.00 (reference)	0.75 (0.35 to 1.61)	0.81 (0.39 to 1.69)	1.07 (0.53 to 2.15)
Model 3 HR (95% Cl) [§]	1.00 (reference)	0.72 (0.34 to 1.55)	0.70 (0.33 to 1.48)	0.91 (0.45 to 1.84)
Model 4 HR (95% CI) [¶]	1.00 (reference)	0.78 (0.35 to 1.74)	0.83 (0.38 to 1.82)	1.01 (0.48 to 2.13)
Cancer mortality				
No of deaths	20	23	24	31
Deaths / 1000 person years	7.6 (4.9 to 11.7)	10.1 (6.7 to 15.2)	10.1 (6.7 to 15.0)	12.1 (8.5 to 17.2)
Model 1 HR (95% CI) †	1.00 (reference)	1.34 (0.73 to 2.43)	1.33 (0.74 to 2.41)	1.61 (0.92 to 2.82)
Model 2 HR (95% CI) [‡]	1.00 (reference)	1.35 (0.74 to 2.46)	1.34 (0.74 to 2.43)	1.78 (1.01 to 3.13)
Model 3 HR (95% Cl) [§]	1.00 (reference)	1.27 (0.69 to 2.32)	1.31 (0.72 to 2.39)	1.72 (0.97 to 3.03)
Model 4 HR (95% Cl) [¶]	1.00 (reference)	1.15 (0.62 to 2.12)	1.18 (0.64 to 2.17)	1.42 (0.79 to 2.56)
Other mortality				
No of deaths	9	13	20	20
Deaths / 1000 person years	3.4 (1.8 to 6.5)	5.7 (3.3 to 9.8)	8.4 (5.4 to 13.0)	7.8 (5.0 to 12.1)
Model 1 HR (95% CI) †	1.00 (reference)	1.68 (0.72 to 3.92)	2.46 (1.12 to 5.41)	2.30 (1.05 to 5.06)
Model 2 HR (95% CI) ‡	1.00 (reference)	1.71 (0.73 to 4.01)	2.50 (1.14 to 5.49)	2.70 (1.23 to 5.95)
Model 3 HR (95% Cl) [§]	1.00 (reference)	1.69 (0.72 to 3.98)	2.24 (1.02 to 4.94)	2.44 (1.10 to 5.41)

Model 4 HR (95% CI) [¶]	1.00 (reference)	1.86 (0.77 to 4.47)	2.23 (0.98 to 5.11)	2.50 (1.09 to 5.76)
Sample sizes				
No of participants	484	419	441	479
Person years of follow-up	2,644	2,278	2,388	2,559

*Parenting style score ranged from 0 (poorest style) to 42 (optimal style). Optimal quartile: score>34; second optimal quartile: score from >31 to <34; second poorest quartile: score from >27 to <31; and poorest quartile: score<27

[†]This is the unadjusted association

[‡]Adjusted for age and sex

[§]As model 2, plus adjustment for childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years)

¹As Model 3, plus adjustment for adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect.

	Parental overprotection score tertiles					
	Optimal	Intermediate	Poorest			
All-cause mortality						
No of deaths	63	92	88			
Deaths / 1000 person years	19.5 (15.2 to 25.0)	22.6 (18.4 to 27.7)	26.8 (21.8 to 33.0)			
Model 1 HR (95% CI) †	1.00 (reference)	1.16 (0.84 to 1.60)	1.38 (1.00 to 1.90)			
Model 2 HR (95% CI) [‡]	1.00 (reference)	1.15 (0.84 to 1.58)	1.56 (1.12 to 2.16)			
Model 3 HR (95% CI) [§]	1.00 (reference)	1.08 (0.78 to 1.49)	1.46 (1.05 to 2.03)			
Model 4 HR (95% CI) [¶]	1.00 (reference)	1.08 (0.78 to 1.50)	1.34 (0.96 to 1.89)			
Sample sizes						
No of participants	594	756	614			
Person years of follow-up	3,231	4,080	3,284			
	Parental care score tertiles					
	Optimal	Intermediate	Poorest			
All-cause mortality						
No of deaths	82	77	84			
Deaths / 1000 person years	19.2 (15.5 to 23.9)	26.1 (20.9 to 32.6)	24.9 (20.1 to 30.8)			
Model 1 HR (95% CI) †	1.00 (reference)	1.36 (1.00 to 1.85)	1.30 (0.96 to 1.76)			
Model 2 HR (95% CI) [‡]	1.00 (reference)	1.36 (0.99 to 1.85)	1.43 (1.05 to 1.94)			
Model 3 HR (95% CI) [§]	1.00 (reference)	1.33 (0.97 to 1.82)	1.36 (1.00 to 1.85)			
Model 4 HR (95% CI) [¶]	1.00 (reference)	1.41 (1.02 to 1.94)	1.24 (0.91 to 1.71)			
Sample sizes						
No of participants	782	552	630			
Person years of follow-up	4,267	2,954	3,373			

*The overprotection score ranged from 0 (highest levels of overprotection - poorest parenting style) to 24 (lowest levels of overprotection - optimal parenting style). Optimal tertile: score>18; intermediate tertile: score from ≥16 to ≤18; and poorest tertile: score<16.

[†]This is the unadjusted association

^{*}Adjusted for age and sex

[§]As model 2, plus adjustment for childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years)

¹As Model 3, plus adjustment for adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist

circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect.

^{II} The parental care score ranged from 0 (lowest levels of care - poorest parenting style) to 18 (highest levels of care - optimal parenting style). Optimal tertile: score≥16; intermediate tertile: score from >12 to <16; and poorest tertile: ≤12 score.

	Parenting style score quartiles [*]						
	Optimal	Second optimal	Second poorest	Poorest			
All-cause mortality							
Model A HR (95% Cl) [†]	1.00 (reference)	1.16 (0.78 to 1.74)	1.43 (0.98 to 2.09)	1.52 (1.04 to 2.23)			
Model B HR (95% Cl) [‡]	1.00 (reference)	1.16 (0.78 to 1.74)	1.43 (0.98 to 2.09)	1.49 (1.01 to 2.18)			
Model C HR (95% Cl) [§]	1.00 (reference)	1.16 (0.78 to 1.74)	1.43 (0.98 to 2.09)	1.51 (1.03 to 2.22)			
Model D HR (95% CI) [¶]	1.00 (reference)	1.21 (0.80 to 1.82)	1.46 (0.99 to 2.15)	1.56 (1.05 to 2.33)			
Cardiovascular mortality							
Model A HR (95% Cl) [†]	1.00 (reference)	0.81 (0.38 to 1.75)	1.16 (0.57 to 2.33)	1.04 (0.51 to 2.13)			
Model B HR (95% Cl) [‡]	1.00 (reference)	0.82 (0.38 to 1.75)	1.16 (0.57 to 2.33)	1.06 (0.52 to 2.17)			
Model C HR (95% Cl) [§]	1.00 (reference)	0.82 (0.38 to 1.75)	1.15 (0.57 to 2.32)	1.07 (0.52 to 2.19)			
Model D HR (95% CI) [¶]	1.00 (reference)	0.83 (0.38 to 1.79)	1.06 (0.52 to 2.16)	0.99 (0.47 to 2.08)			
Cancer mortality							
Model A HR (95% CI) [†]	1.00 (reference)	1.15 (0.63 to 2.09)	1.25 (0.70 to 2.22)	1.45 (0.82 to 2.57)			
Model B HR (95% Cl) [‡]	1.00 (reference)	1.16 (0.64 to 2.11)	1.25 (0.70 to 2.24)	1.53 (0.87 to 2.69)			
Model C HR (95% Cl) [§]	1.00 (reference)	1.16 (0.64 to 2.10)	1.25 (0.70 to 2.23)	1.50 (0.84 to 2.66)			
Model D HR (95% CI) [¶]	1.00 (reference)	1.23 (0.66 to 2.30)	1.43 (0.79 to 2.59)	1.73 (0.95 to 3.15)			
Other mortality							
Model A HR (95% Cl) [†]	1.00 (reference)	1.68 (0.72 to 3.91)	2.35 (1.07 to 5.16)	2.65 (1.20 to 5.87)			
Model B HR (95% Cl) [‡]	1.00 (reference)	1.69 (0.73 to 3.93)	2.40 (1.09 to 5.28)	2.21 (0.98 to 4.99)			
Model C HR (95% Cl) [§]	1.00 (reference)	1.66 (0.71 to 3.86)	2.38 (1.08 to 5.22)	2.34 (1.04 to 5.29)			
Model D HR (95% CI) [¶]	1.00 (reference)	1.65 (0.71 to 3.88)	2.13 (0.95 to 4.78)	2.22 (0.97 to 5.10)			

*Parenting style score ranged from 0 (poorest style) to 42 (optimal style). Optimal quartile: score>34; second optimal quartile: score from >31 to <34; second poorest quartile: score from >27 to <31; and poorest quartile: score<27

[†]Model A is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, positive affect, and self-reported adverse childhood experiences (i.e. physically abusive parents or experience of physical or sexual assault at age <16 years) [‡]Model B is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or

main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, positive affect, and self-reported parental mental health or addiction problems at age <16 years

[§]Model C is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, positive affect, self-reported adverse childhood experiences (i.e. physically abusive parents or experience of physical or sexual assault at age 16 years), and self-reported parental mental health or addiction problems at age <16 years

[¶]Model D is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect. The estimation of Model D is based on a sample of 1,799 participants who reported neither adverse childhood experiences at age <16 years nor parental mental health or addiction problems at age <16 years

	Parenting style score quartiles [*]					
	Optimal	Second optimal	Second poorest	Poorest		
All-cause mortality						
Model E HR (95% CI) †	1.00 (reference)	1.15 (0.77 to 1.73)	1.42 (0.97 to 2.08)	1.48 (1.01 to 2.17)		
Cardiovascular mortality						
Model E HR (95% CI) †	1.00 (reference)	0.83 (0.39 to 1.80)	1.19 (0.59 to 2.40)	1.06 (0.52 to 2.16)		
Cancer mortality						
Model E HR (95% CI) †	1.00 (reference)	1.13 (0.62 to 2.06)	1.23 (0.69 to 2.20)	1.44 (0.82 to 2.54)		
Other mortality						
Model E HR (95% CI) †	1.00 (reference)	1.66 (0.71 to 3.87)	2.35 (1.07 to 5.15)	2.42 (1.09 to 5.36)		

[†]Model E is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, positive affect, and self-reported childhood health problems (i.e. epilepsy, asthma, diabetes, hearing problems, limiting disability, and emotional, nervous, or psychiatric problems at age <16 years)

	Parenting style score quartiles [*]					
	Optimal	Second optimal	Second poorest	Poorest		
All-cause mortality						
Model F HR (95% CI) $^{+}$	1.00 (reference)	1.16 (0.77 to 1.74)	1.37 (0.93 to 2.01)	1.52 (1.04 to 2.24)		
Cardiovascular mortality						
Model F HR (95% CI) [†]	1.00 (reference)	0.77 (0.35 to 1.67)	1.13 (0.56 to 2.31)	1.07 (0.52 to 2.31)		
Cancer mortality						
Model F HR (95% CI) †	1.00 (reference)	1.10 (0.60 to 2.01)	1.14 (0.63 to 2.04)	1.40 (0.79 to 2.49)		
Other mortality						
Model F HR (95% CI) [†]	1.00 (reference)	1.76 (0.76 to 4.13)	2.40 (1.09 to 5.31)	2.57 (1.15 to 5.76)		

[†]Model F is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, positive affect, and self-reported doctor diagnosed chronic diseases at baseline (i.e. heart disease, stroke, cancer, psychiatric problems, and chronic lung disease).

	Parenting style score quartiles [*]					
	Optimal	Second optimal	Second poorest	Poorest		
All-cause mortality						
Model G HR (95% CI) [†]	1.00 (reference)	1.29 (0.74 to 2.26)	1.43 (0.84 to 2.44)	1.75 (1.03 to 2.97)		
Model H HR (95% CI) [‡]	1.00 (reference)	1.31 (0.75 to 2.30)	1.46 (0.85 to 2.50)	1.76 (1.04 to 3.00)		
Model I HR (95% CI) [§]	1.00 (reference)	1.23 (0.74 to 2.05)	1.37 (0.84 to 2.23)	1.70 (1.05 to 2.74)		
Model J HR (95% CI) [¶]	1.00 (reference)	1.17 (0.70 to 1.96)	1.33 (0.82 to 2.17)	1.66 (1.03 to 2.69)		

*Parenting style score ranged from 0 (poorest style) to 42 (optimal style). Optimal quartile: score>34; second optimal quartile: score from >31 to ≤34; second poorest quartile: score from >27 to ≤31; and poorest quartile: score≤27

[†]Model G is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect. The estimation of Model G is based on a sample of 1,328 participants that excluded those with no valid measurement of high sensitivity C-reactive protein or high sensitivity C-reactive protein or high sensitivity C-reactive protein/l

^{*}As Model G, plus adjustment for high sensitivity C-reactive protein

[†]Model I is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect. The estimation of Model I is based on a sample of 1,424 participants that excluded those with no valid measurement of fibrinogen [‡]As Model I, plus adjustment for fibrinogen

Table DS8. All-Cause Mortality Hazard Ratios According to Parenting Style Score After the Exclusion of Deaths That Occurred Within the First 24 Months After The Baseline

	Parenting style score quartiles [*]						
	Optimal	Optimal Second optimal Second poorest Poores					
All-cause mortality							
Model K HR (95% CI) †	1.00 (reference)	1.46 (0.91 to 2.38)	1.73 (1.09 to 2.74)	1.76 (1.10 to 2.82)			

*Parenting style score ranged from 0 (poorest style) to 42 (optimal style). Optimal quartile: score>34; second optimal quartile: score from >31 to <34; second poorest quartile: score from >27 to <31; and poorest quartile: score<27

[†]Model K is adjusted for age, sex, childhood socioeconomic position (i.e. ownership of the first ever permanent residence, number of books in the household at age 10 years, and father's or main carer's occupational class at age 14 years), adult socioeconomic position (i.e. education and total net household wealth), marital status, parenthood status, obesity (i.e. body mass index and waist circumference), cognitive function, unhealthy behaviours (i.e. smoking and physical activity), social factors (i.e. social support and number of problems with social relationships), elevated depressive symptoms, and positive affect.

Table DS9. Key Baseline Character	istics According to P	articipation in Our	Study			
				Excluded		
				because they		
				were not reared		
				by both natural		
				parents / did	Excluded	
			Non-response to	not report on	because of	
	Non-response to		the childhood	the parenting	missing values	
	the life history		experiences	style of both	in the analysis	
	Interview	Included in our	questionnaire	natural parents	variables	
	(n=531)	study (n=1,964)	(n=312)	(n=253)	(n=215)	P Value
Mean age (SD)	70.7 (4.3)	70.7 (4.2)	71.2 (4.5)	71.1 (4.4)	71.7 (4.1)	0.008
Male	253 (47.7)	917 (46.7)	136 (43.6)	94 (37.2)	83 (38.6)	0.008
Non-married	181 (34.1)	614 (31.3)	146 (46.8)	106 (41.9)	71 (33.4)	< 0.001
No educational qualifications	244 (46.0)	651 (33.2)	136 (43.6)	116 (45.9)	83 (38.6)	< 0.001
Lowest total net household						
wealth tertile	228 (45.2)	544 (27.7)	130 (42.4)	88 (34.8)	63 (33.7)	< 0.001
Elevated depressive symptoms						
(≥4 symptoms)	85 (18.2)	240 (12.2)	54 (17.6)	43 (17.1)	33 (16.3)	0.001