

Supplementary Tables

Table S1: Mean standardized cognition scores at 7y, 11y, 16y and 50y according to childhood neglect and abuse

		Mean cognition z-score at age:			
Neglect^a		7y	11y	16y	50y
Cumulative score					
	0	0.25	0.32	0.34	0.16
	1	-0.03	-0.04	-0.05	-0.002
	2	-0.26	-0.34	-0.34	-0.19
	3	-0.46	-0.58	-0.60	-0.28
	≥ 4	-0.74	-0.91	-0.94	-0.45
Abuse^b					
Physical abuse					
	No	0.01	0.02	0.02	0.01
	Yes	-0.18	-0.25	-0.27	-0.09
Psychological abuse					
	No	0.01	0.02	0.02	0.01
	Yes	-0.06	-0.14	-0.14	-0.06
Sexual abuse					
	No	0.01	0.01	0.01	0.004
	Yes	-0.43	-0.54	-0.67	-0.20
Witnessed abuse					
	No	0.02	0.02	0.02	0.01
	Yes	-0.20	-0.28	-0.33	-0.13

^aItems listed in Table 1; cumulative neglect score includes both prospective (7y and 11y) and retrospective (45y recalled) items;

^babuse was recalled at 45y.

Means averaged over 10 imputed datasets.

Note: means are not directly comparable to mean differences presented in main tables as these are unadjusted means.

Table S2: Mean difference (95% confidence intervals) in child (7,11,16y) and adulthood (50y) cognitive and mental health z-score for childhood neglect measures.

	7y Prospective neglect ^a	11y Prospective neglect ^a	Retrospective neglect ^a
Cognitive z-score^b			
At age 7y			
adjusted for gender	-0.36 (-0.39,-0.34)*	-0.26 (-0.29,-0.24)*	-0.10 (-0.14,-0.05)*
adjusted for covariates ^c	-0.28 (-0.31,-0.26)*	-0.18 (-0.21,-0.16)*	-0.05 (-0.09,-0.001)*
At age 11y			
adjusted for gender	-0.40 (-0.43,-0.38)*	-0.37 (-0.40,-0.35)*	-0.16 (-0.21,-0.12)*
adjusted for covariates ^c	-0.26 (-0.29,-0.24)*	-0.25 (-0.27,-0.22)*	-0.08 (-0.12,-0.04)*
At age 16y			
adjusted for gender	-0.41 (-0.44,-0.38)*	-0.38 (-0.41,-0.36)*	-0.18 (-0.23,-0.13)*
adjusted for covariates ^c	-0.25 (-0.28,-0.23)*	-0.24 (-0.27,-0.22)*	-0.09 (-0.14,-0.05)*
At age 50y			
adjusted for gender	-0.20 (-0.23,-0.17)*	-0.19 (-0.23,-0.16)*	-0.05 (-0.10,0.01)
adjusted for covariates ^c	-0.12 (-0.15,-0.09)*	-0.13 (-0.16,-0.09)*	-0.003 (-0.05,0.05)
Mental health z-score^d			
At age 7y			
adjusted for gender	0.34 (0.32,0.37)*	0.20 (0.18,0.23)*	0.15 (0.11,0.20)*
adjusted for covariates ^c	0.32 (0.29,0.35)*	0.17 (0.14,0.19)*	0.12 (0.08,0.17)*
At age 11y			
adjusted for gender	0.25 (0.22,0.28)*	0.32 (0.30,0.34)*	0.18 (0.13,0.22)*
adjusted for covariates ^c	0.20 (0.17,0.23)*	0.29 (0.26,0.31)*	0.14 (0.10,0.19)*
At age 16y			
adjusted for gender	0.29 (0.26,0.32)*	0.28 (0.25,0.31)*	0.20 (0.15,0.26)*
adjusted for covariates ^c	0.20 (0.17,0.23)*	0.20 (0.17,0.23)*	0.15 (0.09,0.20)*
At age 50y			
adjusted for gender	0.09 (0.06,0.12)*	0.10 (0.07,0.13)*	0.24 (0.19,0.29)*
adjusted for covariates ^c	0.07 (0.03,0.10)*	0.08 (0.05,0.12)*	0.23 (0.18,0.28)*

Mean differences obtained from multivariate response models; *p<0.05.

^a mean difference per unit higher score (see Tables 1 and 2 for details).

^b scores are based on math, reading (7, 16y), math, reading, general ability (11y), immediate/delayed word lists, animal naming, letter cancellation (50y); higher score= greater ability.

^c gender, birth-weight, maternal smoking during pregnancy, birth order, maternal age, father's social class at birth (four categories: professional/managerial; skilled non-manual; skilled manual; semiskilled/unskilled manual), mother's/father's education, household amenities.

^d scores are based on behavioural problems (7, 11, 16y) or depressive symptoms (50y); higher score=greater level of problems.

Table S3: Relative Risk Ratio (95% confidence intervals) for highest qualification level by 42 years for childhood neglect measures.

Qualification level	7y Prospective neglect ^a	11y Prospective neglect ^a	Retrospective neglect ^a
None			
adjusted for gender	3.49 (3.13,3.89)*	3.35 (3.03,3.70)*	1.55 (1.32,1.82)*
adjusted for covariates ^b	2.27 (2.03,2.55)*	2.31 (2.07,2.57)*	1.24 (1.04,1.48)*
+ 16y cognition	1.44 (1.26,1.66)*	1.52 (1.34,1.72)*	1.05 (0.85,1.31)
+16y mental health ^c	1.35 (1.17,1.55)*	1.40 (1.23,1.60)*	0.93 (0.74,1.18)
< O-level			
adjusted for gender	2.39 (2.16,2.65)*	2.31 (2.10,2.54)*	1.45 (1.25,1.67)*
adjusted for covariates ^b	1.70 (1.53,1.90)*	1.72 (1.55,1.91)*	1.24 (1.06,1.44)*
+ 16y cognition	1.21 (1.07,1.36)*	1.23 (1.09,1.38)*	1.07 (0.90,1.28)
+16y mental health ^c	1.16 (1.03,1.32)*	1.18 (1.05,1.32)*	1.02 (0.85,1.22)
O-level			
adjusted for gender	1.63 (1.47,1.80)*	1.63 (1.48,1.78)*	1.16 (1.02,1.32)*
adjusted for covariates ^b	1.28 (1.15,1.41)*	1.32 (1.20,1.45)*	1.05 (0.91,1.20)
+ 16y cognition	1.04 (0.93,1.16)	1.07 (0.96,1.18)	0.96 (0.83,1.12)
+16y mental health ^c	1.03 (0.92,1.15)	1.06 (0.95,1.17)	0.95 (0.83,1.10)
A-level			
adjusted for gender	1.33 (1.18,1.50)*	1.39 (1.26,1.55)*	1.03 (0.87,1.21)
adjusted for covariates ^b	1.14 (1.01,1.29)*	1.23 (1.10,1.36)*	0.97 (0.82,1.14)
+ 16y cognition	0.99 (0.87,1.12)	1.06 (0.95,1.18)	0.91 (0.77,1.08)
+16y mental health ^c	0.98 (0.87,1.12)	1.05 (0.94,1.17)	0.91 (0.77,1.08)

RRR obtained from multinomial logistic regression; degree level (reference category) *p<0.05.

^a RRR per unit higher neglect score (see Tables 1 and 2 for details).

^b gender, birth-weight, maternal smoking during pregnancy, birth order, maternal age, father's social class at birth (four categories: professional/managerial; skilled non-manual; skilled manual; semiskilled/unskilled manual), mother's/father's education, household amenities.

^c behaviour problems.