

Supplementary Table 1: ORs and 95% CIs from a logistic regression model of later life depressive symptoms and any ACE using the complete case sample

	Model A (n = 1741)		Model B (n = 1648)	
	OR	95% CI	OR	95% CI
ACE (and Poor Perceived Social Support)				
No	1	-	1	-
Yes	2.99	1.67 – 5.37	3.00	1.63 - 5.54
Perceived Social Support (and no ACE) †				
		p = 0.14		p = 0.12
Poor	1	-	1	-
Moderate	0.55	0.35 – 0.87	0.57	0.36 - 0.92
Strong	0.36	0.22 – 0.58	0.35	0.21 - 0.58
ACE x Perceived Social Support †				
No ACE x Poor Social Support	1	-	1	-
ACE x Moderate Social Support	0.73	0.36 – 1.48	0.66	0.31 - 1.38
ACE x Strong Social Support	0.45	0.20 – 1.02	0.42	0.18 - 0.97
<i>Covariates</i>				
Age (year)		-	0.99	0.96 - 1.02
Gender		-		
Male			1	-
Female			1.25	0.94 - 1.65
Education		-		
Primary			1	-
Secondary			0.89	0.64 - 1.25
Tertiary			0.69	0.46 - 1.03
Current Marital Status		-		
Cohabiting/Married			1	-
Separation/Divorce			1.82	1.12 - 2.96
Single (never married)			1.32	0.81 - 2.15
Widowed			2.21	1.32 - 3.68
General Medical Services (GMS Status)		-		
Not Covered			1	-
Covered			1.16	0.86 – 1.55

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 2: ORs and 95% CIs from a logistic regression model of later life depressive symptoms and abuse (n = 2047*)

	Model A		Model B	
	OR	95% CI	OR	95% CI
Abuse (and Poor Perceived Social Support)				
No	1	-	1	-
Yes	5.21	2.80 – 9.73	5.20	2.70 – 9.99
Perceived Social Support (and no ACE)				
Poor	1	-	1	-
Moderate	0.53	0.37 – 0.77	0.53	0.36 – 0.77
Strong	0.36	0.24 – 0.54	0.35	0.24 – 0.53
Abuse x Perceived Social Support †				
No Abuse x Poor Social Support	1	-	1	-
Abuse x Moderate Social Support	0.59	0.28 – 1.25	0.62	0.29 – 1.34
Abuse x Strong Social Support	0.26	0.11 – 0.64	0.25	0.10 – 0.62
<i>Covariates</i>				
Age (year)		-	0.99	0.97 – 1.01
Gender		-		
Male			1	-
Female			1.31	1.02 – 1.69
Education		-		
Primary			1	-
Secondary			0.92	0.69 – 1.24
Tertiary			0.70	0.49 – 1.02
Current Marital Status		-		
Cohabiting/Married			1	-
Separation/Divorce			0.76	0.51 – 1.66
Single (never married)			1.26	0.71 – 2.24
Widowed			1.11	0.85 – 1.45
General Medical Services (GMS Status)		-		
Not Covered			1	-
Covered			1.11	0.85 – 1.45

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 3: ORs and 95% CIs from a logistic regression model of later life depressive symptoms and neglect

(n = 2047*)

	Model A		Model B	
	OR	95% CI	OR	95% CI
Neglect (and Poor Perceived Social Support)				
No	1	-	1	-
Yes	3.42	1.81 – 6.45	3.30	1.76 – 5.12
Perceived Social Support (and no ACE)				
Poor	1	-	1	-
Moderate	0.50	0.35 – 0.72	0.50	0.34 – 0.77
Strong	0.31	0.21 – 0.45	0.30	0.21 – 0.48
Neglect x Perceived Social Support †				
No Neglect x Poor Social Support	1	p = 0.17	1	p = 0.16
Neglect x Moderate Social Support	0.99	0.42 – 2.37	0.93	0.38 – 2.14
Neglect x Strong Social Support	0.70	0.21 – 1.62	0.55	0.20 – 1.83
<i>Covariates</i>				
Age (year)	-	-	0.98	0.96 – 1.00
Gender	-	-	-	-
Male	-	-	1	-
Female	-	-	1.26	0.98 – 1.67
Education	-	-	-	-
Primary	-	-	1	-
Secondary	-	-	0.96	0.50 – 1.44
Tertiary	-	-	0.70	0.48 – 1.02
Current Marital Status	-	-	-	-
Cohabiting/Married	-	-	1	-
Separation/Divorce	-	-	0.76	0.50 – 1.17
Single (never married)	-	-	1.33	0.75 – 2.37
Widowed	-	-	1.60	0.88 – 2.91
General Medical Services (GMS Status)	-	-	-	-
Not Covered	-	-	1	-
Covered	-	-	1.09	0.84 – 1.42

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 4: ORs and 95% CIs from a logistic regression model of later life depressive symptoms and household dysfunction (n = 2047*)

	Model A		Model B	
	ORs	95% CI	ORs	95% CI
Household dysfunction (and Poor Perceived Social Support)				
No	1	-	1	-
Yes	2.50	1.39 – 4.45	2.24	1.24 – 4.06
Perceived Social Support (and no ACE)				
Poor	1	-	1	-
Moderate	0.48	0.33 – 0.69	0.47	0.32 – 0.68
Strong	0.30	0.20 – 0.44	0.29	0.20 – 0.43
Household dysfunction x Perceived Social Support †		p = 0.32		p = 0.23
No Household dysfunction x Poor Social Support	1	-	1	-
Household dysfunction x Moderate Social Support	0.74	0.36 – 1.52	0.83	0.40 – 1.73
Household dysfunction x Strong Social Support	0.55	0.24 – 1.25	0.56	0.24 – 1.29
<i>Covariates</i>				
Age (year)		-	0.98	0.96 – 1.00
Gender		-		
Male			1	-
Female			1.34	1.05 – 1.74
Education		-		
Primary			1	-
Secondary			0.89	0.66 – 1.19
Tertiary			0.70	0.49 – 1.01
Current Marital Status		-		
Cohabiting/Married			1	-
Separation/Divorce			0.72	0.48 – 1.09
Single (never married)			1.29	0.74 – 2.25
Widowed			1.51	0.84 – 2.71
General Medical Services (GMS Status)		-		
Not Covered			1	-
Covered			1.11	0.85 – 1.44

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 5. ORs and 95% CIs from a logistic regression model of later life depressive symptoms and ACE score (n = 2047*)

	Model A (Unadjusted)		Model B (Fully Adjusted)	
	OR	95% CI	OR	95% CI
ACE Score (and Poor Perceived Social Support)				
0	1	-	1	---
1	1.44	0.62 – 3.37	1.55	0.65 – 3.66
2	3.08	1.23 – 7.65	3.27	1.29 – 8.28
3+	5.33	2.56 – 11.10	5.18	2.45 – 10.94
Perceived Social Support (and ACE score = 0)				
Poor	1	-	1	-
Moderate	0.53	0.35 – 0.80	0.54	0.35 – 0.81
Strong	0.35	0.23 – 0.54	0.36	0.23 – 0.55
ACE Score x Perceived Social Support †		p = 0.36		p = 0.26
ACE Score 1 x Moderate Social Support	1.19	0.44 – 3.15	1.17	0.43 – 3.14
ACE Score 1 x Strong Social Support	0.84	0.28 – 2.49	0.78	0.25 – 2.33
ACE Score 2 x Moderate Social Support	0.78	0.24 – 2.49	0.77	0.24 – 2.50
ACE Score 2 x Strong Social Support	0.75	0.22 – 2.57	0.65	0.19 – 2.26
ACE Score 3+ x Moderate Social Support	0.69	0.27 – 1.79	0.69	0.26 – 1.81
ACE Score 3+ x Strong Social Support	0.29	0.09 – 0.91	0.27	0.09 – 0.87
<i>Covariates</i>				
Age (year)		-	0.99	0.96 – 1.01
Gender		-		
Male			1	-
Female			1.35	1.04 – 1.73
Education		-		
Primary			1	-
Secondary			0.93	0.69 – 1.24
Tertiary			0.68	0.48 – 0.99
Current Marital Status		-		
Cohabiting/Married			1	-
Separation/Divorce			0.75	0.49 – 1.14
Single (never married)			1.21	0.69 – 2.11
Widowed			1.59	0.88 – 2.88
General Medical Services (GMS Status)		-		
Not Covered			1	-
Covered			1.10	0.85 – 1.43

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 6. ORs and 95% CIs from a logistic regression model of later life depressive symptoms and individual ACEs reflecting different forms of abuse (n = 2047*)

	ACE =		<u>Emotional Abuse</u>		<u>Physical Abuse</u>		<u>Sexual Abuse</u>	
	OR	95% CI	OR	95% CI	OR	95% CI		
ACE (and Poor Perceived Social Support)	4.85	(2.49 to 9.42)	3.92	(1.86 to 8.25)	2.58	(0.96 to 6.92)		
Perceived Social Support (and no ACE)								
Poor	1	-	1	-	1	-		
Moderate	0.55	(0.38 to 0.8)	0.48	(0.34 to 0.68)	0.42	(0.3 to 0.59)		
Strong	0.34	(0.23 to 0.51)	0.29	(0.2 to 0.42)	0.27	(0.19 to 0.38)		
ACE X Perceived Social Support †		p = 0.012		p = 0.09		p = 0.24		
ACE + Moderate Social Support	0.61	(0.27 to 1.42)	0.56	(0.22 to 1.43)	1.48	(0.45 to 4.82)		
ACE + Strong Social Support	0.36	(0.13 to 0.97)	0.37	(0.12 to 1.12)	0.57	(0.14 to 2.32)		
<i>Covariates</i>								
Age (year)	0.98	(0.96 to 1.01)	0.98	(0.96 to 1)	0.98	(0.96 to 1)		
Sex								
Male	1	-	1	-	1	-		
Female	1.32	(1.02 to 1.71)	1.34	(1.04 to 1.72)	1.30	(1.01 to 1.67)		
Education								
Primary	1	-	1	-	1	-		
Secondary	0.93	(0.69 to 1.25)	0.96	(0.71 to 1.28)	0.92	(0.69 to 1.23)		
Tertiary	0.73	(0.51 to 1.06)	0.76	(0.53 to 1.08)	0.70	(0.48 to 1)		
Current Marital Status								
Married	1	-	1	-	1	-		
Divorced/Separated	0.74	(0.49 to 1.13)	0.75	(0.49 to 1.15)	0.75	(0.49 to 1.13)		
Single (Never Married)	1.24	(0.7 to 2.21)	1.35	(0.76 to 2.39)	1.32	(0.75 to 2.33)		
Widowed	1.55	(0.86 to 2.78)	1.55	(0.85 to 2.83)	1.54	(0.85 to 2.79)		
General Medical Services (GMS Status)								
Not Covered	1	-	1	-	1	-		
Covered	1.12	(0.86 to 1.46)	1.11	(0.85 to 1.44)	1.09	(0.84 to 1.41)		
Intercept	1.01	(0.21 to 4.84)	1.31	(0.29 to 5.99)	1.81	(0.41 to 8.12)		

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 7. ORs and 95% CIs from a logistic regression model of later life depressive symptoms and individual ACEs reflecting different forms of neglect (n = 2047*)

	ACE =		Physical Neglect	
	OR	95% CI	OR	95% CI
ACE (and Poor Perceived Social Support)	3.35	(1.74 to 6.43)	3.43	(0.96 to 12.26)
Perceived Social Support (and no ACE)				
Poor	1	-	1	-
Moderate	0.50	(0.35 to 0.71)	0.44	(0.32 to 0.62)
Strong	0.30	(0.2 to 0.44)	0.27	(0.19 to 0.38)
ACE X Perceived Social Support †		p = 0.15		P = 0.07
ACE + Moderate Social Support	1.07	(0.43 to 2.65)	0.91	(0.16 to 5.09)
ACE + Strong Social Support	0.66	(0.22 to 1.94)	**	**
<i>Covariates</i>				
Age (year)	0.98	(0.96 to 1)	0.98	(0.96 to 1)
Sex				
Male	1	-	1	-
Female	1.27	(0.98 to 1.64)	1.32	(1.03 to 1.7)
Education				
Primary	1	-	1	-
Secondary	0.95	(0.71 to 1.29)	0.91	(0.68 to 1.22)
Tertiary	0.70	(0.48 to 1.01)	0.74	(0.51 to 1.05)
Current Marital Status				
Married	1	-	1	-
Divorced/Separated	0.80	(0.53 to 1.21)	0.74	(0.48 to 1.13)
Single (Never Married)	1.43	(0.82 to 2.49)	1.37	(0.78 to 2.42)
Widowed	1.70	(0.94 to 3.07)	1.50	(0.83 to 2.73)
General Medical Services (GMS Status)				
Not Covered	1	-	1	-
Covered	1.10	(0.85 to 1.44)	1.08	(0.83 to 1.41)

Intercept	1.21	(0.26 to 5.63)	1.89	(0.42 to 8.5)
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* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

** Estimation problems due to sparse data.

† p-values are from the Type II Sum of Squares Likelihood ratio χ^2 test for the interaction term.

Supplementary Table 8. ORs and 95% CIs from a logistic regression model of later life depressive symptoms and individual ACEs reflecting different forms of household dysfunction (n = 2047*)

	ACE = <u>Parental separation/divorce</u>		<u>Violence against mother</u>		<u>Substance abuse in household</u>		<u>Mental illness in household</u>		<u>Incarceration of household member</u>	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
ACE (and Poor Perceived Social Support)	0.69	(0.16 to 2.93)	2.75	(0.74 to 10.28)	1.51	(0.69 to 3.31)	3.83	(1.91 to 7.68)	6.02	(1.49 to 24.35)
Perceived Social Support (and no ACE)										
Poor	1	-	1	-	1	-	1	-	1	-
Moderate	0.43	(0.31 to 0.59)	0.44	(0.32 to 0.61)	0.41	(0.3 to 0.58)	0.51	(0.36 to 0.72)	0.45	(0.32 to 0.62)
Strong	0.24	(0.17 to 0.35)	0.25	(0.18 to 0.36)	0.25	(0.18 to 0.37)	0.30	(0.2 to 0.43)	0.27	(0.19 to 0.38)
ACE X Perceived Social Support †		p = 0.94		p = 0.17		p = 0.81		p = 0.30		p = 0.06
ACE + Moderate Social Support	1.78	(0.31 to 10.32)	0.34	(0.06 to 2.1)	1.35	(0.52 to 3.5)	0.49	(0.19 to 1.27)	0.51	(0.07 to 3.52)
ACE + Strong Social Support	1.86	(0.23 to 14.83)	0.68	(0.12 to 3.92)	0.81	(0.25 to 2.67)	0.41	(0.14 to 1.2)	**	**
<i>Covariates</i>										
Age (year)	0.97	(0.95 to 1)	0.98	(0.95 to 1)	0.98	(0.96 to 1)	0.98	(0.96 to 1)	0.98	(0.95 to 1)
Sex										
Male	1	-	1	-	1	-	1	-	1	-
Female	1.32	(1.02 to 1.7)	1.31	(1.02 to 1.68)	1.32	(1.02 to 1.69)	1.35	(1.04 to 1.73)	1.32	(1.03 to 1.71)
Education										
Primary	1	-	1	-	1	-	1	-	1	-
Secondary	0.89	(0.66 to 1.19)	0.90	(0.67 to 1.2)	0.90	(0.67 to 1.21)	0.90	(0.67 to 1.2)	0.89	(0.66 to 1.19)
Tertiary	0.71	(0.49 to 1.02)	0.72	(0.51 to 1.03)	0.71	(0.5 to 1.02)	0.70	(0.49 to 1)	0.72	(0.51 to 1.04)
Current Marital Status										
Married	1	-	1	-	1	-	1	-	1	-
Divorced/Separated	0.72	(0.47 to 1.09)	0.69	(0.46 to 1.02)	0.72	(0.48 to 1.08)	0.72	(0.48 to 1.09)	0.75	(0.49 to 1.13)
Single (Never Married)	1.38	(0.78 to 2.42)	1.31	(0.76 to 2.26)	1.30	(0.74 to 2.27)	1.29	(0.74 to 2.26)	1.40	(0.8 to 2.46)
Widowed	1.43	(0.79 to 2.6)	1.41	(0.8 to 2.51)	1.44	(0.8 to 2.6)	1.51	(0.84 to 2.74)	1.53	(0.85 to 2.76)
General Medical Services (GMS Status)										
Not Covered	1	-	1	-	1	-	1	-	1	-
Covered	1.11	(0.85 to 1.45)	1.13	(0.87 to 1.46)	1.10	(0.85 to 1.43)	1.10	(0.84 to 1.43)	1.10	(0.84 to 1.43)
Intercept	2.57	(0.56 to 11.76)	2.23	(0.5 to 9.94)	1.80	(0.4 to 8.21)	1.56	(0.34 to 7.12)	2.07	(0.45 to 9.44)

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

** Estimation problems due to sparse data.

† p-values are from the Type II Sum of Squares Likelihood ratio Chi² test for the interaction term.

Supplementary Table 9. Beta coefficients and 95% CIs from quantile regression models of the median of depression scale scores (CES-D) and any ACE, any abuse, any neglect, or any household dysfunction (n = 2047*)

	ACE =		<u>Any ACE</u>		<u>Any Abuse</u>		<u>Any Neglect</u>		<u>Any Dysfunction</u>	
	β	95%CI	β	95%CI	β	95%CI	β	95%CI	β	95%CI
ACE	7.19	(2.54 to 11.85)	11.30	(0.05 to 22.55)	14.07	(6.7 to 21.44)	6.55	(1.1 to 12.01)		
Perceived Social Support (score)**	-0.77	(-0.96 to -0.58)	-0.89	(-1.08 to -0.7)	-0.78	(-0.95 to -0.61)	-0.87	(-1.06 to -0.68)		
ACE X Perceived Social Support	-0.47	(-0.9 to -0.03)	-0.60	(-1.61 to 0.4)	-0.97	(-1.61 to -0.32)	-0.44	(-0.92 to 0.04)		
<i>Covariates</i>										
Age (year)	-0.06	(-0.13 to 0.01)	-0.05	(-0.12 to 0.02)	-0.04	(-0.11 to 0.02)	-0.04	(-0.11 to 0.03)		
Sex										
Male										
Female	0.68	(-0.08 to 1.44)	0.47	(-0.29 to 1.24)	0.56	(-0.15 to 1.28)	0.75	(-0.01 to 1.5)		
Education										
Primary										
Secondary	-0.72	(-1.68 to 0.24)	0.05	(-0.92 to 1.02)	0.26	(-0.7 to 1.22)	-0.92	(-1.85 to 0)		
Tertiary	-1.89	(-3.09 to -0.69)	-1.43	(-2.59 to -0.26)	-0.84	(-1.97 to 0.28)	-1.94	(-3.01 to -0.87)		
Current Marital Status										
Married										
Divorced/Separated	-0.26	(-1.63 to 1.11)	-0.13	(-1.59 to 1.33)	-1.46	(-3.09 to 0.16)	-0.15	(-1.5 to 1.19)		
Single (Never Married)	-0.27	(-2.7 to 2.15)	0	(-2.38 to 2.37)	-0.87	(-3.32 to 1.58)	0.39	(-1.65 to 2.42)		
Widowed	2.43	(0.1 to 4.76)	2.58	(0.52 to 4.64)	1.31	(-1.13 to 3.75)	2.19	(-0.06 to 4.45)		
General Medical Services (GMS Status)										
Not Covered										
Covered	0.17	(-0.58 to 0.93)	0.24	(-0.52 to 1.01)	0.18	(-0.54 to 0.89)	0.09	(-0.68 to 0.86)		
Intercept	19.92	(15.03 to 24.82)	19.99	(15.02 to 24.96)	19.43	(14.7 to 24.15)	19.98	(15.12 to 24.84)		

* Parameter estimates based on the complete sample with missing data accounted for with multiple imputation with predictive mean matching.

** In contrast to the other models reported, both the outcome (CESD) and Perceived Social Support, are both modelled using their continuous scores, rather than categorising them.