Depression in elderly persons subject to childhood maltreatment is not modulated by corpus callosum and hippocampal loss.

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Table 1. Differences between subjects having experienced or not experienced an adverse childhood life event on demographic and clinical variables

	Any adverse event				
	No *N=91*		*Yes* *N=336*		
Variable	*n*	*%*	*n*	*%*	*P-value*
Gender					
Men	51	56.04	157	46.73	0.11
Women	40	43.96	179	53.27	
Age (in years) mean (SD)	72.06 (3.94)		70.61 (3.62)		0.002
Head injury					
No	84	93.33	301	90.66	0.43
Yes	6	6.67	31	9.34	
Current depressive symptomatology*					
No	76	83.52	250	74.85	0.08
Yes	15	16.48	84	25.15	
Major depressive episode lifetime					
No	74	83.15	226	69.75	0.01
Yes	15	16.85	98	30.25	
Number of major depressive episode					
0	74	83.15	226	71.52	0.06
1	12	13.48	58	18.35	
2 or more	3	3.37	32	10.13	
Age at onset of major depressive episode	39.80 (15.58)		46.27 (16.56)		0.16
Suicide attempt					
No	88	98.88	308	95.65	0.21
Yes	1	1.12	14	4.35	
MMSE					
<26	80	87.91	295	87.80	0.98
≥26	11	12.09	41	12.20	

	Any adverse event				
	No *N=91*		*Yes* *N=336*		
Variable	*n*	*%*	*n*	*%*	*P-value*
Nart Score	21.01 (5.62)		21.49 (5.87)		0.48
Alcohol (g/day)					
<12	15	16.48	49	15.03	0.24
12-36	62	68.13	246	75.46	
>36	14	15.38	31	9.51	

*CES-D $\underline{\geq}$ 16 or currently treated with anti-depressants

Table 2. Associations between sociodemographic variables, clinical characteristics and corpus callosum (CC) area ratio, and hippocampal (HC) volume ratio.

	CC area ratio		HC volume ratio	
Variable	Correlation coefficient or mean (SD)	p-value	Correlation coefficient or mean (SD)	p-value
Age (in years)	-0.22	<.0001	-0.14	0.004
NART Score	-0.05	0.38	0.02	0.70
Gender				
Men (n=208)	0.58 (0.09)	0.001	5.64 (0.76)	0.05
Women (n=219)	0.61 (0.09)		5.78 (0.66)	
Lifetime major depressive episode				
No (n=300)	0.59 (0.09)	0.14	5.65 (0.70)	0.06
Yes, currently (n=8)	0.58 (0.06)		6.00 (0.70)	
Yes, in the past (n=105)	0.61 (0.09)		5.81 (0.73)	
Serious events after 18 yrs				
No (n=271)	0.59 (0.09)	0.20	5.72 (0.72)	0.04
Yes (n=74)	0.58 (0.10)		5.53 (0.67)	
Recent events - last 2 yrs				
0 (n=171)	0.60 (0.10)	0.91	5.70 (0.72)	0.11
1 (n=139)	0.60 (0.09)		5.64 (0.74)	
2 or more (n=103)	0.60 (0.09)		5.83 (0.66)	
Lifetime head injury				
No (n=385)	0.60 (0.10)	0.02	5.72 (0.71)	0.42
Yes (n=37)	0.57 (0.08)		5.62 (0.70)	
Parents had problems with alcohol				
No (n=384)	0.60 (0.09)	0.15	5.71 (0.71)	0.72
Yes (n=43)	0.62 (0.11)		5.67 (0.74)	

Table 3. Association of adverse events with corpus callosum (CC) area ratio and hippocampal (HC) volume ratio adjusted for age, sex and head injury

	Whole sample			
	CC area ratio		HC ratio	
Variable	mean (SD)	p-value	mean (SD)	p-value
Any adverse event				
No (n=91)	0.58 (0.11)	0.43	5.54 (0.87)	0.07
Yes (n=336)	0.59 (0.15)		5.70 (1.15)	
Physical and / or sexual abuse				
No (n=91)	0.58 (0.16)	0.90	5.69 (1.42)	0.40
Yes (n=13)	0.58 (0.10)		5.90 (0.86)	
Verbal abuse from parents				
No (n=91)	0.58 (0.15)	0.45	5.69 (1.21)	0.35
Yes (n=28)	0.60 (0.10)		5.85 (0.83)	
Humiliation, mental cruelty or excessive physical mistreatment				
No (n=91)	0.57 (0.14)	0.65	5.58 (1.23)	0.31
Yes (n=39)	0.58 (0.10)		5.75 (0.90)	
Mental disorder in parents				
No (n=91)	0.57 (0.14)	0.05	5.60 (1.11)	0.13
Yes (n=79)	0.60 (0.13)		5.78 (1.01)	
Poverty, financial difficulties				
No (n=91)	0.58 (0.14)	0.07	5.58 (1.08)	0.02
Yes (n=108)	0.60 (0.14)		5.84 (1.06)	
Parents too often shared their problems with children				
No (n=91)	0.58 (0.15)	0.50	5.59 (1.26)	0.56
Yes (n=58)	0.59 (0.13)		5.67 (1.09)	
Death of parent				
No (n=91)	0.57 (0.14)	0.44	5.58 (1.14)	0.51
Yes (n=77)	0.56 (0.13)		5.65 (1.06)	
Experienced war/ catastrophe				
No (n=91)	0.58 (0.12)	0.53	5.55 (0.92)	0.06
Yes (n=246)	0.59 (0.15)		5.72 (1.14)	