

Supplementary table 1. Effects of chronic ELS exposure on pups (PND 9), 6 and 12 month old mice.

		Ctrl		ELS	
		Light phase	Dark phase	Light phase	Dark phase
Maternal care (PND 2–9)	Duration nursing (s)	2667 ± 46 (8)	484 ± 45 (8)	2323 ± 50 (10)*	458 ± 52 (8)
	Duration off pups (s)	182 ± 40 (8)	561 ± 43 (8)	454 ± 54 (10)*	469 ± 54 (8)
	Number of exits	0.5 ± 0.2 (8)	2.4 ± 0.4 (8)	2.4 ± 0.4 (10)*	4.7 ± 0.9 (8)*
	# pup(s) out of nest	0.0 ± 0.0 (8)	0.0 ± 0.0 (8)	4.8 ± 1.3 (10)*	3.4 ± 0.8 (8)*
		Ctrl		ELS	
Pups	Body weight gain PND 2-9 (g)	3.47 ± 0.11 (24)		2.60 ± 0.09 (27)*	
	Body weight PND 21 (g)	8.80 ± 0.23 (24)		8.42 ± 0.23 (27)	
		Ctrl - WT	Ctrl – APP/PS1	ELS – WT	ELS – APP/PS1
6 months	Body weight (g)	29.4 ± 0.89 (12)	29.7 ± 0.34 (10)	28.9 ± 0.55 (11)	29.7 ± 0.38 (14)
	Thymus weight (% of BW)	0.159 ± 0.007 (8)	0.154 ± 0.003 (6)	0.147 ± 0.007 (10)	0.148 ± 0.004 (6)
	Adrenal gland weight (% of BW)	0.0062 ± 0.001 (8)	0.0076 ± 0.001 (7)	0.0096 ± 0.001 (11) ^a	0.0085 ± 0.001 (7) ^a
12 months	Body weight (g)	39.43 ± 1.50 (13)	39.13 ± (9)	38.65 ± 1.13 (17)	42.43 ± 1.75 (9)
	Thymus weight (% of BW)	0.109 ± 0.005 (13)	0.092 ± 0.004 (7) ^b	0.090 ± 0.006 (16) ^b	0.107 ± 0.010 (9) ^b
	Adrenal gland weight (% of BW)	0.013 ± 0.001 (14)	0.013 ± 0.001 (9)	0.011 ± 0.0008 (15) ^a	0.011 ± 0.0007 (7) ^a

Data expressed as mean ± S.E.M (n).

* p<0.05, t-test compared to Ctrl mice

^a p<0.05, two-way ANOVA, main effect for condition.

^b p<0.05, two-way ANOVA, interaction effect.