

Table 2. Relation of circulating testosterone (T) levels Estradiol and T/estradiol ratio to adrenal and hippocampal weight after separation of rats in proestrus (PE) and estrus (E) into low T and high T-range following similar high chronic-stress

	Low testosterone (T) range	High testosterone (T) range
Mean testosterone (pg/mL)		(16) 205 ± 36.08
Testosterone range (pg/mL)	(8) 50-80	(8) 230-430
Testosterone (pg/mL)	(8) 67.5 ± 3.65	(8) 337.5 ± 21.36
Estradiol range (pg/mL)	(8) 31.5-88	(8) 28.5-56
Estradiol (pg/mL)	(8) 51.31 ± 6.85	(8) 50.75 ± 3.73
Testosterone (T)/estradiol ratio	(8) 1.49 ± 0.218	(8) 6.83 ± 0.363***
Age (days)	(8) 98.5 ± 1.32	(8) 96.5 ± 1.0
Body weight (g)	(8) 169.5 ± 3.21	(8) 167.5 ± 3.86
Duration of handling (days)	(8) 16.87 ± 0.66	(8) 15.87 ± 1.24
Emotional reactivity score	(8) 14.0 ± 2.95	(8) 16.6 ± 3.45
Cycle phase distribution	(8) 3 PE; 5 E	(8) 5 PE; 3 E
Surgery distribution	(8) 5 versus 3 controls	(8) 3 versus 5 controls
Adrenal weight (mg)	(8) 63.16 ± 1.74	(8) 53.91 ± 3.04**
Adrenal weight (mg/100 g bw)	(8) 36.68 ± 0.98	(8) 32.0 ± 1.50*
Thymus weight (mg)	(8) 339.2 ± 17.86	(8) 371.2 ± 13.30
Thymus weight (mg/100 g bw)	(8) 201.67 ± 8.20	(8) 210.78 ± 8.98
Hippocampus (mg)	(8) 83.5 ± 4.23	(8) 101.67 ± 4.07**
Hippocampus (mg/100 g bw)	(8) 48.4 ± 2.43	(8) 60.78 ± 2.48 **

The values are expressed as means ± S.E.M. Number of samples in parenthesis. *P<0.05; **P<0.01; statistically significant differences between the two groups. ***P<0.001, t=12.6.