

## 1 S5. Tissue and parcellated volumes for each cohort

2 We here show results from a repeat of the analysis performed for Table 2, using brains from cohort 1  
3 (Table 3), mean (standard deviation) age 128.4 (7.4) days and cohort 2 (Table 4), age 471.5 (5.9) days  
4 separately. The pattern of mean volumes, Tc1 > WT (or vice versa) was the same, in each structure, in  
5 both cohorts, and the same as when both were combined (Table 2). The tendency when analysing the  
6 two cohorts separately was to decrease significance: p-values were generally greater and more likely  
7 to exceed the arbitrary significance threshold of  $p=0.05$ .

8 **Table 3**

	WT (N=14)		Tc1 (N=14)		p	
	mean	std	mean	std	absolute	TIV-normalised
<b>a</b>						
GM	315.50	11.92	362.06	16.68	$3.35 \times 10^{-8}$	
WM	116.92	5.55	131.37	7.16	$1.61 \times 10^{-5}$	
BV	432.42	15.30	493.43	21.50	$2.36 \times 10^{-8}$	
vCSF	2.21	1.09	2.62	0.61		
eCSF	40.09	5.72	48.18	8.83	$4.77 \times 10^{-2}$	
TIV	474.72	17.41	544.23	23.19	$1.16 \times 10^{-8}$	
<b>b</b>						
amygdala	13.52	0.49	15.49	0.97	$7.88 \times 10^{-6}$	
anterior commissure	1.36	0.09	1.46	0.08		
basal forebrain and septum	13.62	0.51	15.82	0.58	$1.21 \times 10^{-9}$	
brainstem	56.86	1.51	61.10	2.17	$5.61 \times 10^{-5}$	$1.48 \times 10^{-3}$
central GM region	15.01	0.54	17.29	0.63	$2.57 \times 10^{-9}$	
cerebellum	66.04	5.20	65.94	3.99		$2.55 \times 10^{-5}$
corpus callosum & external capsule	16.84	0.94	17.22	0.80		$1.51 \times 10^{-3}$
fimbria	3.24	0.35	3.62	0.26	0.07113	
globus pallidus	3.97	0.21	4.46	0.32	$1.05 \times 10^{-3}$	
hippocampus	29.66	0.94	31.83	1.33	$7.99 \times 10^{-4}$	0.02962
hypothalamus	12.40	0.59	14.51	0.66	$4.87 \times 10^{-8}$	
inferior colliculus	7.24	0.61	8.10	0.38	$2.85 \times 10^{-3}$	
internal capsule	5.21	0.67	5.06	0.52		0.04685
midbrain (remainder)	4.98	0.52	5.80	0.46	$3.68 \times 10^{-3}$	
neocortex	142.22	5.98	153.71	7.12	$2.09 \times 10^{-3}$	0.04374
olfactory bulb	27.41	1.92	25.37	1.67		$1.92 \times 10^{-7}$
striatum (caudate putamen)	26.50	1.47	30.57	1.39	$1.23 \times 10^{-6}$	
superior colliculus	9.47	0.81	11.04	0.98	$2.14 \times 10^{-3}$	
thalamus	26.33	1.10	27.81	1.76		0.01597
ventricles	1.65	0.22	1.92	0.31		

10 Cohort 1 mean absolute volumes (mm<sup>3</sup>), by group, of (a) probabilistic tissues: BV = GM + WM; TIV =  
 11 BV + CSF and (b) parcellated regions via integration of Jacobian determinants, and their standard  
 12 deviations. (Bonferroni-adjusted two-tailed p-values shown, omitted where >>0.05).

13 **Table 4**

	WT (N=12)		Tc1 (N=15)		p	
	mean	std	mean	std	absolute	TIV-normalised
<b>a</b>						
GM	317.69	6.31	364.52	24.96	7.82x10 <sup>-6</sup>	
WM	132.03	5.97	147.23	8.78	1.64x10 <sup>-4</sup>	
BV	449.71	9.61	511.75	32.26	6.14x10 <sup>-6</sup>	
vCSF	2.60	0.83	4.18	1.24	5.02x10 <sup>-3</sup>	5.05x10 <sup>-2</sup>
eCSF	11.09	4.52	12.74	3.69		
TIV	463.39	10.06	528.68	31.32	1.79x10 <sup>-6</sup>	
<b>b</b>						
amygdala	11.33	0.31	13.68	0.70	1.28x10 <sup>-9</sup>	0.02939
anterior commissure	1.58	0.06	1.69	0.08	0.0133	0.03138
basal forebrain and septum	13.19	0.37	15.75	0.61	4.78x10 <sup>-11</sup>	
brainstem	56.13	2.14	59.13	2.72		0.01341
central GM region	15.68	0.27	17.49	0.68	1.13x10 <sup>-7</sup>	
cerebellum	62.06	2.58	57.77	3.65	0.0465	3.73x10 <sup>-8</sup>
corpus callosum & external capsule	18.70	0.39	20.43	1.18	1.25x10 <sup>-3</sup>	
fimbria	3.91	0.18	4.45	0.26	3.51x10 <sup>-5</sup>	
globus pallidus	4.54	0.13	4.66	0.25		4.37x10 <sup>-7</sup>
hippocampus	28.43	0.64	31.08	1.32	2.49x10 <sup>-5</sup>	0.01491
hypothalamus	12.09	0.27	14.10	0.49	5.63x10 <sup>-11</sup>	
inferior colliculus	7.80	0.34	8.15	0.45		5.48x10 <sup>-3</sup>
internal capsule	5.79	0.29	5.72	0.50		1.00x10 <sup>-3</sup>
midbrain (remainder)	4.95	0.19	5.65	0.27	1.49x10 <sup>-6</sup>	
neocortex	128.79	1.86	138.38	4.36	4.43x10 <sup>-6</sup>	7.05x10 <sup>-3</sup>
olfactory bulb	25.17	0.69	25.02	1.27		3.68x10 <sup>-7</sup>
striatum (caudate putamen)	27.23	0.64	30.86	1.66	4.20x10 <sup>-6</sup>	
superior colliculus	9.24	0.27	10.91	0.61	8.68x10 <sup>-8</sup>	
thalamus	26.56	0.50	27.42	1.13		3.27x10 <sup>-7</sup>
ventricles	1.65	0.24	2.50	0.38	1.30x10 <sup>-5</sup>	1.62x10 <sup>-3</sup>

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15 Cohort 2 mean absolute volumes (mm<sup>3</sup>), by group, of (a) probabilistic tissues: BV = GM + WM; TIV =  
 16 BV + CSF and (b) parcellated regions via integration of Jacobian determinants, and their standard  
 17 deviations. (Bonferroni-adjusted two-tailed p-values shown, omitted where >>0.05).