

Positron Emission Tomography Quantification of Serotonin Transporter in Suicide Attempters with Major Depressive Disorder

Supplemental Information

Table S1. Raw [¹¹C]DASB midbrain binding comparing healthy controls, depressed suicide attempters and depressed non-attempters across multiple possible PET outcome measures. These values represent raw (unweighted) mean \pm SD, are not log-transformed, and are not adjusted for age. They therefore do not correspond directly to the analytic and statistical approach employed in the manuscript, but are presented for more direct comparison to other studies that have not employed these approaches.

Midbrain	Controls	MDD non-attempters	MDD attempters
V_T/f_p	281.6 \pm 62.95	277.97 \pm 76.05	238.88 \pm 71.99
BP_F	189.78 \pm 49.15	183.72 \pm 57.86	148.8 \pm 60.73
BP_P	22.2 \pm 7.34	19.73 \pm 6.56	15.73 \pm 6.15
BP_{ND}	2.1 \pm 0.47	1.94 \pm 0.37	1.66 \pm 0.57

BP, binding potential; f_p , plasma free fraction; MDD, major depressive disorder; V_T , volume of distribution.

Table S2. Raw [¹¹C]DASB binding comparing major depressive disorder (MDD) subjects with healthy controls across multiple possible PET outcome measures. These values represent raw (unweighted) mean \pm SD, are not log-transformed, and are not adjusted for age. They therefore do not correspond directly to the analytic and statistical approach employed in the manuscript, but are presented for more direct comparison to other studies that have not employed these approaches.

	MDD	Control
V_T/f_p		
Anterior Cingulate	126.7 \pm 30.15	129.91 \pm 25.47
Amygdala	200.42 \pm 55.92	210.26 \pm 45.33
Dorsal Putamen	198.98 \pm 50.57	203.55 \pm 41.81
Hippocampus	132.08 \pm 33.32	134.48 \pm 29.11
Midbrain	266.48 \pm 76.31	281.6 \pm 62.95
Thalamus	189.89 \pm 47.14	192.51 \pm 36.39
BP_F		
Anterior Cingulate	33.67 \pm 14.63	38.110.97
Amygdala	107.39 \pm 39.94	118.45 \pm 29.3
Dorsal Putamen	105.95 \pm 33.93	111.74 \pm 24.61
Hippocampus	39.06 \pm 17	42.67 \pm 14.08
Midbrain	173.45 \pm 60.28	189.78 \pm 49.15
Thalamus	96.86 \pm 31.65	100.7 \pm 23.65
BP_p		
Anterior Cingulate	3.64 \pm 1.73	4.481.66
Amygdala	11.42 \pm 4.28	13.8 \pm 4.23
Dorsal Putamen	11.3 \pm 3.55	12.93 \pm 3.33
Hippocampus	4.17 \pm 1.89	5.01 \pm 1.93
Midbrain	18.55 \pm 6.64	22.2 \pm 7.34
Thalamus	10.35 \pm 3.32	11.81 \pm 3.88
BP_{ND}		
Anterior Cingulate	0.37 \pm 0.14	0.43 \pm 0.14
Amygdala	1.15 \pm 0.32	1.3 \pm 0.25
Dorsal Putamen	1.14 \pm 0.26	1.23 \pm 0.19
Hippocampus	0.42 \pm 0.15	0.47 \pm 0.15
Midbrain	1.86 \pm 0.45	2.1 \pm 0.47
Thalamus	1.05 \pm 0.27	1.13 \pm 0.29