

Appendix 1 to Sacchet M, Camacho M, Livermore E, et al. Accelerated aging of the putamen in patients with major depressive disorder. *J Psychiatry Neurosci* 2016.

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Table S1: Relations between scan parameters and basal ganglia volumes. General linear models were used to assess whether scan parameters influenced volumes of the basal ganglia. Three unique head coils were modeled using dummy variable coding and we report the smaller of the two resulting *p*-values in the table for each region. Only echo time (TE) was significantly related to right nucleus accumbens volumes (bolded text in table). Models were specified as follows: volume ~ flip angle + coil + scan collection plane + voxel volume + TI + TR + TE. TI = inversion time; TR = repetition time.

	Flip Angle		Head Coil		Scan Plane		Voxel Volume		TI		TR		TE	
	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value	<i>t</i> -statistic	<i>p</i> -value
Caudate														
Left	1.08	0.281	0.93	0.355	-0.86	0.393	-0.87	0.387	1.34	0.183	0.39	0.694	0.19	0.853
Right	0.82	0.416	0.57	0.572	-0.46	0.645	-0.64	0.520	1.28	0.202	0.90	0.368	-0.45	0.652
Averaged	0.96	0.338	0.75	0.453	-0.66	0.509	-0.77	0.445	1.33	0.183	0.67	0.501	-0.15	0.879
Putamen														
Left	-0.87	0.386	-1.88	0.062	1.24	0.393	0.76	0.446	-0.86	0.392	0.05	0.963	-0.07	0.947
Right	0.49	0.622	-0.48	0.629	-0.21	0.834	-0.41	0.682	0.01	0.993	-0.63	0.528	0.82	0.413
Averaged	-0.21	0.830	-1.25	0.211	0.56	0.579	0.20	0.842	-0.46	0.650	-0.30	0.768	0.38	0.703
Pallidum														
Left	0.55	0.580	0.29	0.770	-0.12	0.905	-0.47	0.639	0.85	0.394	0.36	0.721	-0.02	0.982
Right	0.68	0.500	0.79	0.428	-0.46	0.646	-0.73	0.465	0.36	0.718	-1.01	0.314	1.41	0.159
Averaged	0.68	0.498	0.59	0.556	-0.31	0.755	-0.66	0.510	0.69	0.493	-0.33	0.744	0.74	0.463
Nucleus Accumbens														
Left	1.09	0.277	1.21	0.228	-0.89	0.376	-1.24	0.216	-0.68	0.496	-1.57	0.118	1.11	0.270
Right	0.70	0.482	0.66	0.508	-0.45	0.654	-0.36	0.721	-0.12	0.905	-1.26	0.211	2.02	0.045
Averaged	1.00	0.318	1.05	0.295	-0.75	0.454	-0.91	0.362	-0.46	0.644	-1.56	0.120	1.68	0.095

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Table S2: Effects of medication status and anxiety comorbidity on basal ganglia volumes within the MDD group. Analysis of covariance (ANCOVA) was used to examine the effects of medication status and anxiety comorbidity within the MDD group. Medication status was modeled as 0 (not currently medicated; $N = 76$) or 1 (currently medicated; $N = 40$). Lifetime anxiety disorder comorbidity was modeled as 0 (no lifetime anxiety disorder; $N = 42$) or 1 (lifetime anxiety disorder; $N = 74$). Each analysis was conducted on residualized data that controlled for estimated ICV, gender, and scan parameters that were related to BG volumes. Models were specified as follows: volume ~ intercept + age + group + group*age.

Region	Age		Group		Group*Age	
	F-statistic	p-value	F-statistic	p-value	F-statistic	p-value
Medication Status						
Caudate	3.908	0.051	2.595	0.110	2.455	0.120
Putamen	37.524	<0.001	0.161	0.689	0.003	0.955
Pallidum	7.277	0.008	0.204	0.652	0.128	0.721
Nucleus Accumbens	18.386	<0.001	0.021	0.886	0.000	0.993
Anxiety Comorbidity						
Caudate	3.064	0.083	0.082	0.775	0.117	0.733
Putamen	32.188	<0.001	0.452	0.503	0.019	0.889
Pallidum	9.103	0.003	0.243	0.623	0.732	0.394
Nucleus Accumbens	15.505	<0.001	1.851	0.176	0.505	0.479