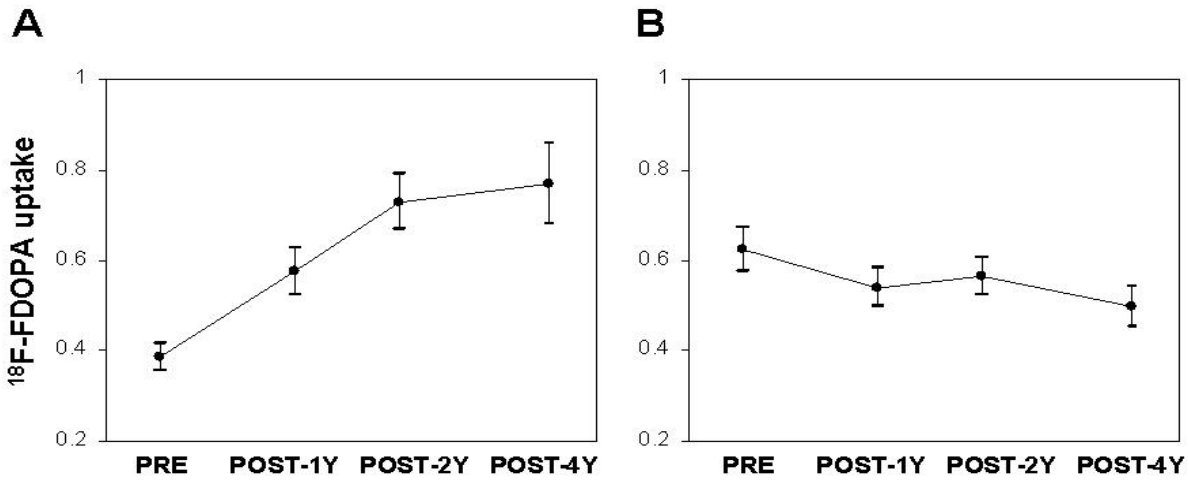
Supplementary Figure 1



Supplemental Figure Legend

Voxel-wise comparisons of ^{18}F-FDOPA uptake with the striatum at one (POST-1Y), two (POST-2Y), and four (POST-4Y) years after transplantation with baseline scans (PRE). This analysis was performed in the 15 subjects who were scanned at all four time points. Transplantation resulted in increased ^{18}F-FDOPA uptake in the posterior putamen as well as concurrent bilateral reductions in the non-grafted caudate and ventrorostral putamen ($p < 0.001$; RMANOVA). (**A**) *Post-hoc* analysis revealed progressive increases in the posterior putamen (coordinates: -28 -6 0 mm). (**B**) Significant decreases in ^{18}F-FDOPA uptake were detected in the ventrorostral putamen (coordinates: 12 18 -8 mm). [The data in the plots were generated from spherical volumes of interest (4 mm radius) centered at the peak coordinates from the voxel-based analysis (see text)].

Supplemental Table. Results of three-way RMANOVA of the clinical outcome data

	From baseline to one year		From baseline to two years	
Effect	F	P	F	P
Time	11.42	<0.003	13.82	<0.0001
Age	0.58	0.451	1.62	0.213
Gender	0.64	0.431	0.30	0.585
Time×Age	4.80	0.037*	2.94	0.062
Time×Gender	4.39	0.045*	1.97	0.149
Age×Gender	0.45	0.508	0.25	0.622
Time×Age×Gender	3.20	0.084	1.35	0.268

Data are the F- and p-values from three-way repeated measures analyses of variance (RMANOVA) of UPDRS motor scores at baseline and one and two years after transplantation.

*$p<0.05$, three-way RMANOVA