On-line Table 1: General characteristics of patients and controls

Group (No.)	Age (mean, yr; range)	Sex (M/F)	Disease Duration (mean, yr)	UPDRS Score (mean)	MMSE Score (mean)
Controls (7)	60.4 ± 4.6 (55–66)	5:2	N/A	N/A	N/A
PSP (9)	66.5 ± 7.2 (51–73)	4:5	3.8 ± 2.2	43.5 ± 25.6	16.6 ± 5.7
CBD (11)	66.4 ± 8.7 (51–77)	4:7	3 ± 1.1	40.1 ± 12.3	21.3 ± 1.1

Note:—N/A indicates not applicable or not performed; UPDRS, Unified Parkinson's Disease Rating Scale; MMSE, Mini-Mental State Examination; PSP, progressive supranuclear palsy; CBD, corticobasal degeneration.

On-line Table 2: ADC$_{ave}$ values for regions of interest identified in the white matter, basal ganglia, and thalamus

	Mean ADC Value (SD)			F Value (P value)	P Value PSP vs Controls	P Value CBD vs Controls	P Value PSP vs CBD
	Controls	PSP	CBD				
Caudate nucleus	0.699 (0.019)	0.802 (0.052)	0.789 (0.069)	5.3 (.01)*	.01*	.03*	.90
Globus pallidus	0.693 (0.019)	0.818 (0.110)	0.775 (0.09)	3.9 (.03)*	.027*	.16	.53
Putamen	0.707 (0.022)	0.741 (0.057)	0.745 (0.088)	0.7 (.47)	.58	.47	.99
Anterior thalamus	0.728 (0.048)	0.829 (0.073)	0.755 (0.042)	7.4 (.003)†	.004†	.57	.02*
Medial thalamus	0.796 (0.038)	0.863 (0.044)	0.801 (0.065)	4.3 (.02)*	.05*	.98	.04*
Motor thalamus	0.706 (0.023)	0.765 (0.031)	0.777 (0.049)§	7.7 (.003)†	.01*	.002†	.77
Posterior thalamus	0.707 (0.011)	0.765 (0.045)	0.748 (0.062)	2.9 (.07)	.07	.20	.74
SCP	0.788 (0.052)	0.864 (0.058)	0.797 (0.060)	4.5 (.02)*	.04*	.95	.04*
Fronto-orbital region	0.698 (0.038)	0.735 (0.063)	0.740 (0.038)	1.8 (.18)	.29	.18	.96
Inferior frontal gyrus	0.754 (0.049)	0.772 (0.052)	0.79 (0.066)	0.7 (.46)	.82	.44	.78
Anterior cingulum	0.680 (0.018)	0.743 (0.074)	0.702 (0.031)	3.5 (.04)*	.04*	.63	.16
Posterior cingulum	0.699 (0.026)	0.753 (0.050)	0.719 (0.034)	4.0 (.03)*	.03*	.53	.15
SMA	0.698 (0.048)	0.767 (0.032)	0.798 (0.069)	7.4 (.003)†	.04*	.002†	.42
Precentral gyrus	0.697 (0.027)	0.762 (0.055)	0.838 (0.048)§	20.3 (.001)‡	.03*	.001‡	.004†
Postcentral gyrus	0.694 (0.046)	0.765 (0.065)	0.850 (0.071)§	12.5 (.001)‡	.10	.001‡	.02*

Note:—ADC$_{ave}$ indicates apparent diffusion coefficient values ($\times 10^{-3}$ mm^2/s); SCP, superior cerebellar peduncle; SMA, supplementary motor area.
* $P < .05$.
† $P < .01$.
‡ $P < .001$.
§ ADC in the most affected hemisphere (significantly higher than that in the contralateral one).

On-line Table 3: FA for regions of interest identified in the white matter and thalamus

	Mean FA Value (SD)			F Value (P value)	P Value PSP vs Controls	P Value CBD vs Controls	P Value PSP vs CBD
	Controls	PSP	CBD				
Anterior thalamus	0.300 (0.061)	0.296 (0.050)	0.295 (0.046)	0.02 (.98)	.98	.09	.99
Medial thalamus	0.272 (0.045)	0.268 (0.047)	0.258 (0.038)	0.2 (.78)	.97	.78	.98
Motor thalamus	0.273 (0.053)	0.319 (0.029)	0.314 (0.067)	1.7 (.19)	.21	.27	.97
Posterior thalamus	0.298 (0.077)	0.316 (0.087)	0.362 (0.597)	1.8 (.18)	.88	.20	.36
SCP	0.537 (0.075)	0.541 (0.063)	0.526 (0.058)	0.1 (.86)	.99	.94	.86
Fronto-orbital region	0.432 (0.035)	0.364 (0.056)	0.393 (0.023)	5.7 (.009)†	.007†	.11	.28
Inferior frontal gyrus	0.282 (0.064)	0.262 (0.051)	0.282 (0.053)	0.3 (.69)	.77	.99	.71
Anterior cingulum	0.474 (0.044)	0.340 (0.061)	0.408 (0.040)	14.8 (.001)‡	.001‡	.03*	.01*
Posterior cingulum	0.504 (0.043)	0.418 (0.055)	0.437 (0.059)	5.2 (.01)*	.01*	.05*	.70
SMA	0.493 (0.092)	0.400 (0.070)	0.370 (0.045)	7.1 (.004)†	.03*	.003‡	.59
Precentral gyrus	0.544 (0.042)	0.392 (0.041)	0.371 (0.058)	29.03 (.001)‡	.001‡	.001‡	.63
Postcentral gyrus	0.523 (0.070)	0.401 (0.108)	0.403 (0.082)§	4.7 (.02)*	.03*	.03*	.99

Note:—FA indicates fractional anisotropy.
* $P < .05$.
† $P < .01$.
‡ $P < .001$
§ FA in the most affected hemisphere (significantly higher than that in the contralateral one).