Table 2 Cluster sizes and locations for voxels with significantly reduced FA value in PDD group compared to PD-MCI groups (PD-MCI > PDD).

Cluster number	JHU White-Matter Tractography Atlas	JHU ICBM-DTI-81 White-Matter Labels	Voxels and MNI coordinates (X/Y/Z)	*P*
1	Forceps minor: 4.35875	Body of corpus callosum: 9.19277 Superior corona radiata R: 4.66514 Anterior corona radiata L: 4.07436 Superior corona radiata L: 3.8349 Genu of corpus callosum: 3.7076	19635 (73/114/125)	**.013**
2	Inferior fronto-occipital fasciculus R: 13.581 Inferior longitudinal fasciculus R: 5.38591	External capsule R: 37.9404 Sagittal stratum R: 8.50949 Anterior corona radiata R: 6.07046 Retrolenticular part of internal capsule R:	1845 (57/129/79)	**.042**

			3.79404	
3	Superior longitudinal fasciculus L: 4.56092		476 (123/63/102)	**.039**
4	Superior longitudinal fasciculus (temporal part) R: 12.319 Superior longitudinal fasciculus R: 10.7714 Inferior longitudinal fasciculus R: 3.18095	Superior longitudinal fasciculus R: 11.4286	420 (46/85/72)	**.046**

Note: The value after each region indicates the percentage probability of the cluster belonging to the given atlas label. Only regions with probability >3% were included. MNI, Montreal Neurological Institute; L, the abbreviation for the left hemisphere; R, the abbreviation for the right hemisphere; JHU-WM Tractography Atlas, John Hopkins University white matter tractography atlas; JHU-ICBM471 DTI-81 White-Matter Labels, John Hopkins University International Consortium of Brain Mapping DTI-81

WM labels; PD-MCI, Parkinson's disease with mild cognitive impairment; PDD, Parkinson's disease with dementia; CN, control subjects with normal cognitive; FA, fractional anisotropy.

Table 3 Cluster sizes and locations for voxels with significantly reduced MK value in PDD group compared to PD-MCI groups (PD-MCI > PDD).

Cluster number	JHU White-Matter Tractography Atlas	JHU ICBM-DTI-81 White-Matter Labels	Voxels and MNI coordinates	*P*
1	Forceps major: 15.1976	Splenium of corpus callosum: 81.0277 Posterior corona radiata R: 9.48617 Posterior thalamic radiation (include optic radiation) R: 4.74308	12711 (93/125/97)	**.032**
2	Forceps major: 13.0987 Inferior fronto-occipital fasciculus R: 10.0127 Inferior longitudinal fasciculus R: 3.53503	Posterior thalamic radiation R: 47.4522 Tapetum R: 10.1911 Posterior corona radiata R: 9.55414	2596 (43/103/55)	**.044**
3	Inferior longitudinal fasciculus R: 13.4364 Inferior fronto-occipital fasciculus	Sagittal stratum (include inferior longitidinal fasciculus and inferior fronto-	314 (58/66/85)	**.049**

	R: 9.37481 Superior longitudinal fasciculus R: 3.97034 Superior longitudinal fasciculus (temporal part) R: 3.15524	occipital fasciculus) R: 10.8629 Posterior thalamic radiation (include optic radiation) R: 7.20339 Superior longitudinal fasciculus R: 4.50693		
4	-	Body of corpus callosum: 14.1688 Superior corona radiata R: 7.34797 Superior corona radiata L: 5.97121 Posterior thalamic radiation L: 4.37416 Splenium of corpus callosum: 4.20895	253 (67/76/88)	**.049**

Note: The value after each region indicates the percentage probability of the cluster belonging to the given atlas label. Only regions with probability >3% were included.