

**Supplementary Table 4.** The associations of the clinical characteristics with the occurrence of levodopa-induced dyskinesia (analyses adjusting daily levodopa dose)

	Univariate		Multivariate (all variables)		Multivariate (selected variables)	
	Unadjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	p-value
Depression	1.07 (0.34–3.41)	0.903	1.66 (0.31–8.86)	0.551		
Female sex	3.67 (0.83–16.32)	0.088	6.39 (0.82–50.06)	0.077	10.40 (1.25–86.77)	0.030
Age at onset of PD	0.98 (0.93–1.04)	0.544	0.97 (0.88–1.06)	0.500		
Duration of PD	1.02 (0.96–1.09)	0.532	0.97 (0.87–1.08)	0.551		
Initial chief complaint – tremor	0.75 (0.26–2.14)	0.590	1.08 (0.24–4.80)	0.922		
Initial H-Y stage	9.99 (1.60–62.46)	0.014	7.14 (0.92–55.51)	0.060	3.27 (0.52–20.61)	0.207
Initial motor scores	1.14 (1.03–1.26)	0.014	1.05 (0.87–1.26)	0.642	1.17 (1.01–1.36)	0.043
Cognitive impairment						
Attention	2.74 (0.58–12.92)	0.203	0.55 (0.05–5.83)	0.617		
Language	1.82 (0.40–8.39)	0.440	1.20 (0.13–11.22)	0.875		
Visuospatial	3.74 (1.09–12.84)	0.036	8.45 (0.98–73.03)	0.052	3.86 (1.09–13.65)	0.036
Memory	1.17 (0.32–4.32)	0.818	0.11 (0.01–1.77)	0.119	0.54 (0.11–2.51)	0.428
Frontal and executive	1.07 (0.23–4.98)	0.933	5.56 (0.32–98.10)	0.241		
Daily levodopa dose	1.000 (0.998–1.003)	0.870	1.000 (0.996–1.005)	0.885		

PD, Parkinson's disease; H-Y, Hoehn and Yahr scale; HR, hazard ratio; CI, confidence interval.