

Supplementary Table 1. The associations of the clinical characteristics with the progression to Hoehn and Yahr stage 3 (analyses adjusting initial motor subscores)

	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	1.95 (1.07–3.54)	0.029	2.48 (1.28–4.83)	0.007	2.58 (1.34–4.97)	0.004
Female sex	0.82 (0.46–1.45)	0.489	0.79 (0.34–1.83)	0.583		
Age at onset of PD	1.06 (1.02–1.10)	0.002	1.06 (1.02–1.11)	0.003	1.06 (1.02–1.11)	0.003
Duration of PD	0.98 (0.94–1.02)	0.321	0.96 (0.91–1.01)	0.128	0.97 (0.92–1.01)	0.164
Initial chief complaint - tremor	0.52 (0.29–0.93)	0.028	0.53 (0.26–1.09)	0.083	0.55 (0.27–1.10)	0.091
Initial H-Y stage	2.60 (1.24–5.44)	0.011	1.15 (0.34–3.90)	0.824	1.20 (0.37–3.87)	0.765
Initial motor subscores						
Bradykinesia	1.23 (1.11–1.37)	< 0.001	1.33 (1.12–1.58)	0.001	1.34 (1.13–1.59)	0.001
Rigidity	1.06 (0.95–1.18)	0.332	0.83 (0.70–0.99)	0.041	0.83 (0.70–0.99)	0.033
Tremor	0.96 (0.84–1.10)	0.557	1.10 (0.94–1.29)	0.249		
Cognitive impairment						
Attention	2.20 (0.92–5.25)	0.077	2.12 (0.68–6.59)	0.196	1.55 (0.57–4.19)	0.392
Language	1.62 (0.64–4.13)	0.313	1.89 (0.59–6.05)	0.280		
Visuospatial	1.34 (0.62–2.90)	0.462	0.58 (0.18–1.83)	0.348		
Memory	1.82 (0.96–3.45)	0.065	1.53 (0.57–4.08)	0.397	1.28 (0.54–3.08)	0.578
Frontal and executive	2.23 (1.11–4.48)	0.025	1.64 (0.56–4.83)	0.368	1.64 (0.61–4.42)	0.324
LEDD	1.001 (0.999–1.002)	0.351	0.999 (0.997–1.001)	0.542		

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