

**Supplementary Table 5.** The associations of the clinical characteristics with the occurrence of wearing-off (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	1.55 (0.61–3.91)	0.356	3.04 (0.84–11.06)	0.091	1.31 (0.49–3.53)	0.594
Female sex	0.79 (0.32–1.94)	0.600	1.03 (0.29–3.68)	0.959		
Age at onset of PD	0.94 (0.90–0.99)	0.024	0.94 (0.88–0.99)	0.030	0.92 (0.87–0.97)	0.003
Duration of PD	1.04 (0.98–1.09)	0.182	1.00 (0.92–1.08)	0.962	1.02 (0.96–1.08)	0.485
Initial chief complaint – tremor	0.40 (0.15–1.04)	0.061	0.35 (0.11–1.11)	0.074	0.45 (0.16–1.25)	0.125
Initial H-Y stage	0.97 (0.37–2.54)	0.952	1.26 (0.31–5.21)	0.746		
Initial motor subscores						
Bradykinesia	1.04 (0.88–1.23)	0.629	1.34 (1.06–1.70)	0.015	1.38 (1.11–1.71)	0.004
Rigidity	0.85 (0.70–1.02)	0.080	0.59 (0.42–0.82)	0.002	0.60 (0.45–0.81)	0.001
Tremor	0.91 (0.72–1.15)	0.431	1.06 (0.74–1.53)	0.739		
Cognitive impairment						
Attention	1.51 (0.34–6.70)	0.591	1.42 (0.17–11.56)	0.744		
Language	0.66 (0.09–5.01)	0.687	1.10 (0.11–11.17)	0.936		
Visuospatial	1.34 (0.38–4.74)	0.647	2.41 (0.45–12.83)	0.304		
Memory	0.98 (0.32–3.01)	0.968	0.67 (0.10–4.28)	0.669		
Frontal and executive	0.61 (0.14–2.70)	0.514	0.66 (0.05–9.14)	0.758		
LEDD	1.000 (0.998–1.002)	0.760	0.999 (0.995–1.002)	0.520		

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