

**Supplementary Table 5.** Survival analysis stratified by DM

Variables	Adjusted hazard ratio	95% Hazard ratio confidence limits	p value
Model 1* (motor outcome)			
FPG (intermediate)	1.729	1.070–2.793	0.0253 <sup>§</sup>
FPG (hyperglycemia)	3.720	1.918–7.216	0.0001 <sup>§</sup>
Age ≥ 65 yr	2.258	1.157–4.408	0.0170 <sup>§</sup>
Female	0.899	0.541–1.496	0.6830
Smoking	1.088	0.615–1.924	0.7713
Model 2† (motor outcome)			
FPG (intermediate)	2.455	0.803–7.500	0.1151
FPG (hyperglycemia)	7.870	1.653–37.467	0.0096 <sup>§</sup>
Age ≥ 65 yr	5.586	0.722–43.220	0.0994
Smoking	0.288	0.063–1.323	0.1095
Model 3‡ (cognitive outcome)			
FPG (intermediate)	1.178	0.692–2.005	0.5453
FPG (hyperglycemia)	1.292	0.599–2.788	0.5132
Age ≥ 65 yr	0.683	0.375–1.243	0.2124
Sex (woman)	0.694	0.397–1.215	0.2011
Smoking	1.261	0.702–2.268	0.4380
H&Y stage ≥ 2	1.164	0.711–1.904	0.5463
APOE ε4 carrier	1.374	0.781–2.417	0.2697

All parameters are controlled by DM status.

\*endpoint is H&Y stage ≥ 2 in Model 1; †endpoint is H&Y stage ≥ 3 in Model 2, sex parameter is controlled by stratification; ‡endpoint is cognitive impairment (MCI) in Model 3; §p value < 0.05.

DM, diabetes mellitus; FPG, fasting plasma glucose; H&Y, Hoehn and Yahr; APOE, apolipoprotein E; MCI, mild cognitive impairment.