

Supplementary Table 1. Correlation stratified by cumulative FPG time interval

	Total number of patients	Partial correlation coefficients	<i>p</i> value
Cumulative time interval between FPG and UPDRS Part III*			
Up to 1 year	151	0.1071	0.2015
Up to 2 years	166	0.1127	0.1574
Up to 3 years	186	0.1497	0.0455 [‡]
Up to 4 years	189	0.1440	0.0525
Up to 5 years	190	0.1225	0.0984
Up to 6 years	192	0.1208	0.1014
Cumulative time interval between FPG and neuropsychological test (visuospatial function domain) [†]			
Up to 1 year	138	0.2123	0.0157 [‡]
Up to 2 years	149	0.1931	0.0223 [‡]
Up to 3 years	167	0.1404	0.0785
Up to 4 years	170	0.1399	0.0767
Up to 5 years	171	0.1597	0.0424 [‡]
Up to 6 years	173	0.1570	0.0446 [‡]
Cumulative time interval between FPG and neuropsychological test (attention domain) [†]			
Up to 1 year	138	0.0512	0.5643
Up to 2 years	149	0.0061	0.9427
Up to 3 years	167	0.0045	0.9557
Up to 4 years	170	0.0136	0.8638
Up to 5 years	171	0.0064	0.9361
Up to 6 years	173	0.0030	0.9699
Cumulative time interval between FPG and neuropsychological test (language domain) [†]			
Up to 1 year	138	0.0680	0.4441
Up to 2 years	149	0.0751	0.3776
Up to 3 years	167	0.0088	0.9127
Up to 4 years	170	0.0148	0.8518
Up to 5 years	171	0.0288	0.7163
Up to 6 years	173	0.0211	0.7887
Cumulative time interval between FPG and neuropsychological test (memory domain) [†]			
Up to 1 year	138	0.1042	0.2401
Up to 2 years	149	0.1001	0.2395
Up to 3 years	167	0.0477	0.5518
Up to 4 years	170	0.0463	0.5599
Up to 5 years	171	0.0556	0.4825
Up to 6 years	173	0.0480	0.5419
Cumulative time interval between FPG and neuropsychological test (frontal/executive function domain) [†]			
Up to 1 year	138	0.1082	0.2222
Up to 2 years	149	0.0693	0.4158
Up to 3 years	167	0.0152	0.8500
Up to 4 years	170	0.0277	0.7269
Up to 5 years	171	0.0434	0.5837
Up to 6 years	173	0.0372	0.6363

*analysis was performed by partial Spearman correlation for relationship between UPDRS III and FPG, controlling for age, sex, smoking, body mass index, diabetes mellitus, time interval days between FPG and UPDRS III, disease duration; [†]analysis was performed by partial Spearman correlation for relationship between neuropsychological domain composite z-scores and FPG, controlling for age, sex, smoking, body mass index, diabetes mellitus, APOE ε4 carrier, education years, time interval days between FPG and neuropsychological test, disease duration; [‡]*p* < 0.05. FPG, fasting plasma glucose; UPDRS, Unified Parkinson's Disease Rating Scale; APOE, apolipoprotein E.