Supplementary Material

Table S1: The effect of the relative TL on the occurrence of dementia in PD patients.

	OR	95%CI	p-value	
Telomere length	0.15	0.03–0.88	0.024	

Adjustment for age at inclusion and disease duration

	OR	95%CI	p-value	
Telomere length	0.56	0.097-3.26	0.509	
Age at inclusion	1.18	1.11-1.25	<0.001	
Disease duration	1.13	1.07–1.19	<0.001	

Table S2: The effect of the relative TL on the current LED which reflects the symptomatology of Parkinson's disease.

	В	95% CI	p-value	
Telomere length	-36.39	-407.7–334.9	0.847	

Adjustment for age at inclusion and disease duration

	В	95% CI	p-value	
Telomere length	18.34	-309.11–345.79	0.912	
Age at inclusion	-9.87	-16.912.83	0.00623	
Disease duration	38.32	28.44 - 48.20	9.07e-13	

Adjustment for the genetic factors of the oxidative stress pathway

	В	95% CI	p-value	
Telomere length	14.48	-317.69–346.65	0.932	
Age at inclusion	-9.96	-17.092.82	0.00649	
Disease duration	38.48	28.45 - 48.51	1.55e-12	
GPX1 rs1050450	-22.29	-133.36–88.78	0.693	
CAT rs10836235	-11.82	-157.59–133.96	0.873	
CAT rs1001179	-17.13	-141.05–106.79	0.785	
SOD2 rs4880	26.94	-69.82–123.71	0.584	

Adjustment for the genetic factors of the inflammation pathway

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	В	95% CI	p-value		
Telomere length	43.58	-285.74–372.89	0.794		
Age at inclusion	-9.70	-16.77–-2.61	0.00760		
Disease duration	37.63	27.60-47.66	4.08e-12		
<i>IL1B</i> rs16944	13.68	-140.2–167.62	0.861		
<i>IL1B</i> rs1143623	104.55	-61.12–270.23	0.215		
TNFa rs1800629	1.67	-129.13–132.47	0.980		
<i>IL6</i> rs1800795	-62.03	-167.78–43.73	0.249		

Table S3: Effect of the relative TL on the time to occurrence of motor fluctuations.

	HR	95% CI	p-value	
Telomere length	3.24	1.28-8.21	0.0134	

Adjustment for age at inclusion and disease duration

	HR	95% CI	p-value	
Telomere length	2.54	0.90-7.14	0.0781	
Age at inclusion	0.95	0.93–0.97	5.34e-06	
Disease duration	0.98	0.94–1.015	0.215	

Table S4: Effect of the relative TL on the time to occurrence of dyskinesia.

	HR	95% CI	p-value	
Telomere length	0.79	0.231–2.67	0.698	

Adjustment for age at inclusion and disease duration

	HR	95% CI	p-value	
Telomere length	0.294	0.071-1.21	0.0904	
Age at inclusion	0.931	0.91-0.95	2.27e-09	
Disease duration	0.958	0.92-1.0013	0.0571	