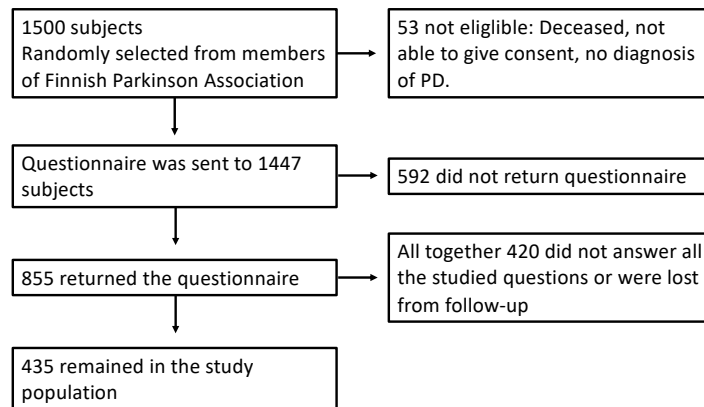


Supplement figure 1. Flow diagram of subjects included in the study

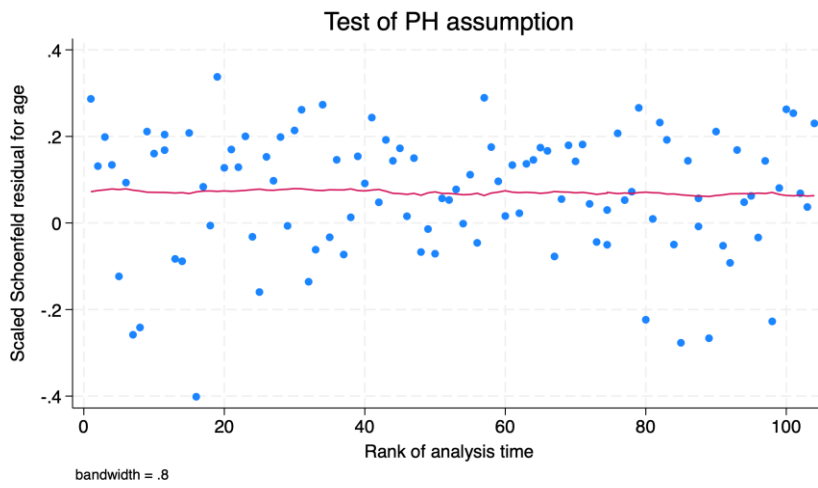


Supplement Table 1 Characteristics of included and excluded participants

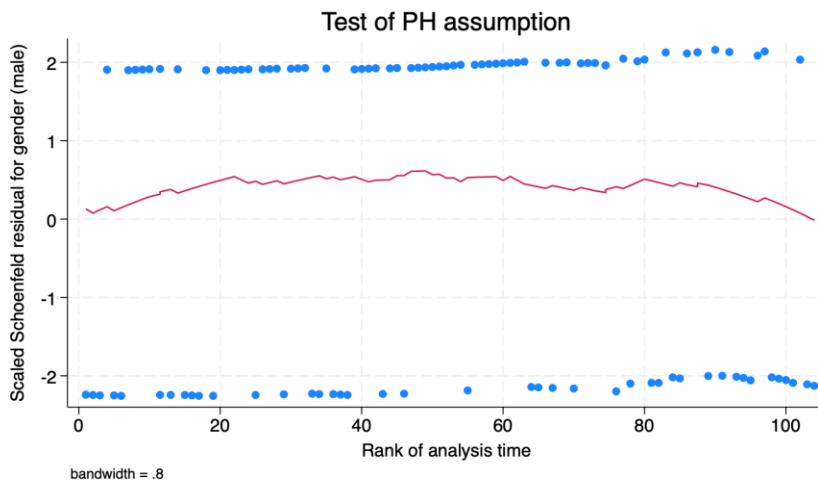
	Included (n=435)	Excluded (number varies due to missing data)	P-value
Age (years)	67.7 (66.9-68.6)	70.2 (69.4-71.0)	0.0001
Male gender (%)	54.7% (50.0- 59.4)	54.4% (46.3-62.4)	0.92
Duration of PD (years)	6.3 (5.9-6.7)	6.4 (5.9-6.9)	0.63
LED (mg)	646 (609-683)	614 (571-656)	0.35
Depression (WHO5 ≤50) (%)	44.2% (39.4- 49.0)	41.9 (37.0-47.0)	0.40
Daily or almost daily naps (%)	28.1 (24.0-32.6)	32.1 (27.4-37.1)	0.32
Sleep duration (TST, h)	7.5 (7.4-7.7)	7.8 (7.6-7.9)	0.05
Deceased	22.8 (19.0-27.1)	17.6 (12.5-23.9)	0.16

PD: Parkinson disease; LED: Levodopa equivalent dose; WHO-5: WHO-5 well-being scale; TST: total nighttime sleep duration. P-value is calculated for difference between included and excluded subjects. **Statistically significant differences (P-value <0.05) are printed in bold.**

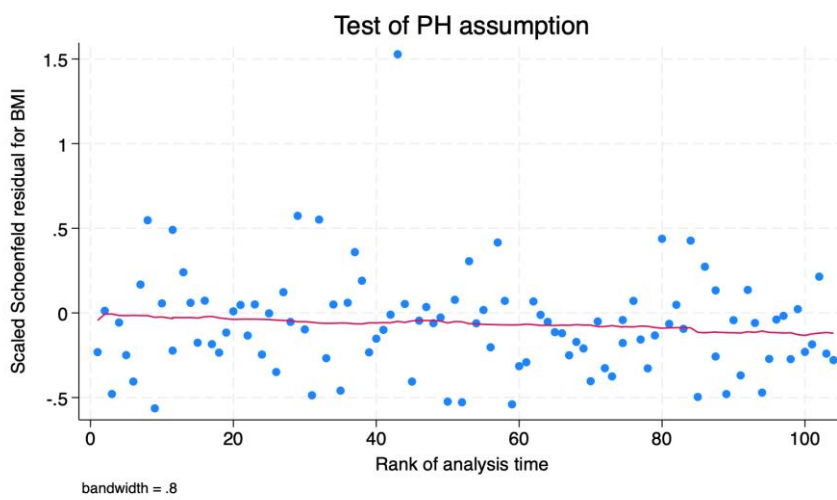
Supplement figure 2. Scaled Schoenfeld residual plot for age

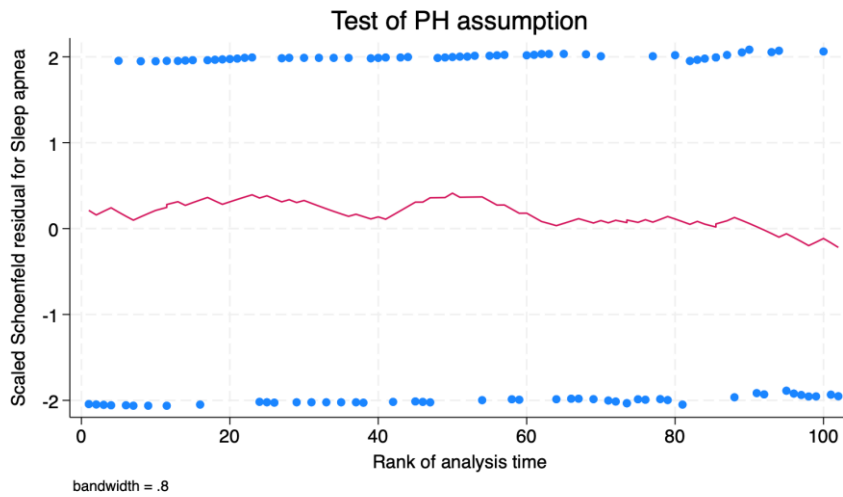


Supplement figure 3. Scaled Schoenfeld residual plot for gender

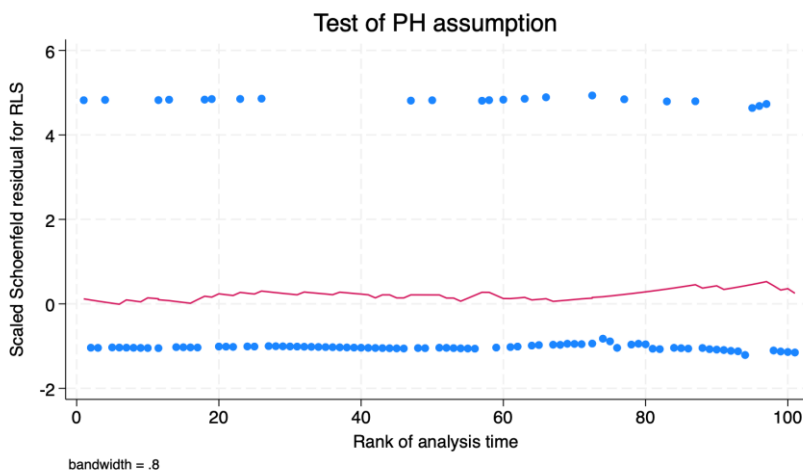


Supplement figure 4. Scaled Schoenfeld residual plot for BMI

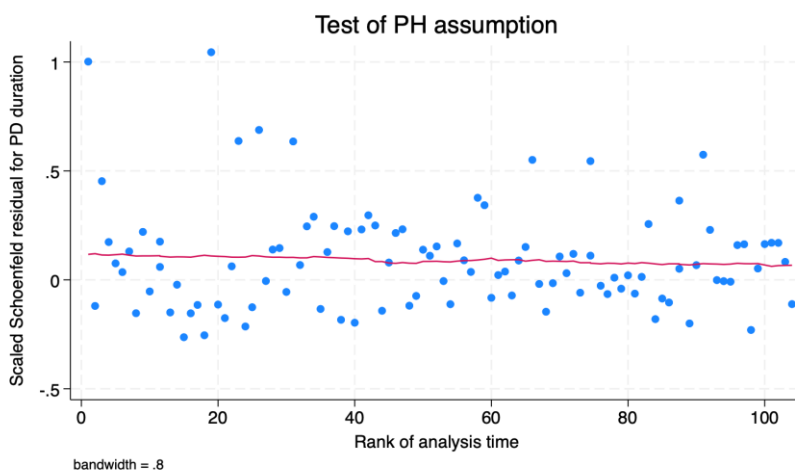


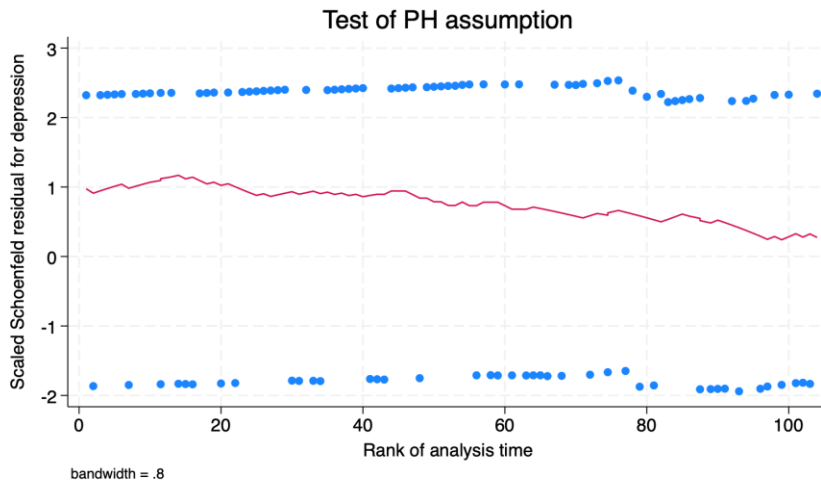
Supplement figure 5. Scaled Schoenfeld residual plot for sleep apnea (STOP \geq 2)

STOP: A sleep apnea questionnaire: Snoring, Tiredness, Observed apneas, high blood Pressure.

Supplement figure 6. Scaled Schoenfeld residual plot for RLS (\geq 3 d/w)

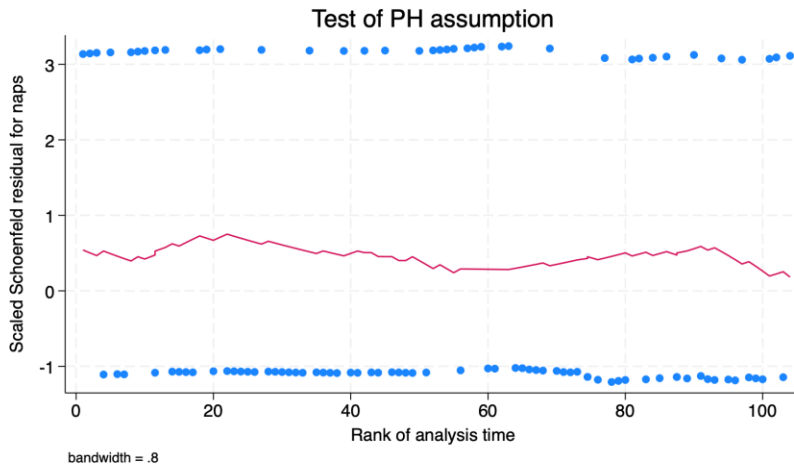
Supplement figure 7. Scaled Schoenfeld residual plot for PD duration



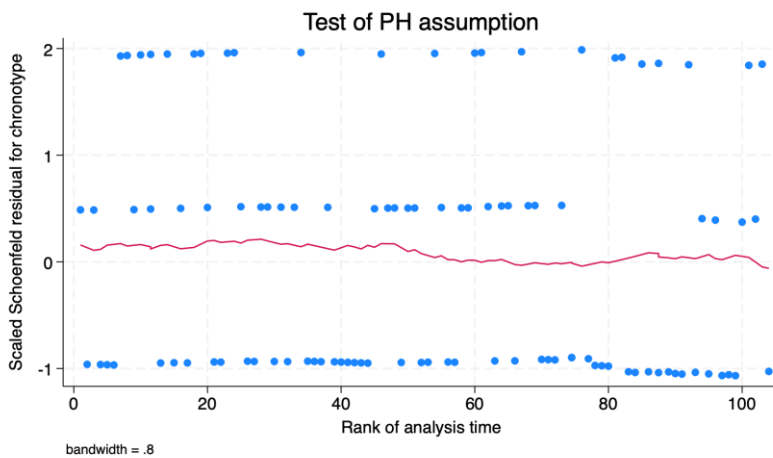
Supplement figure 8. Scaled Schoenfeld residual plot for depression (WHO-5 ≤ 50)

WHO-5: WHO-5 well-being scale.

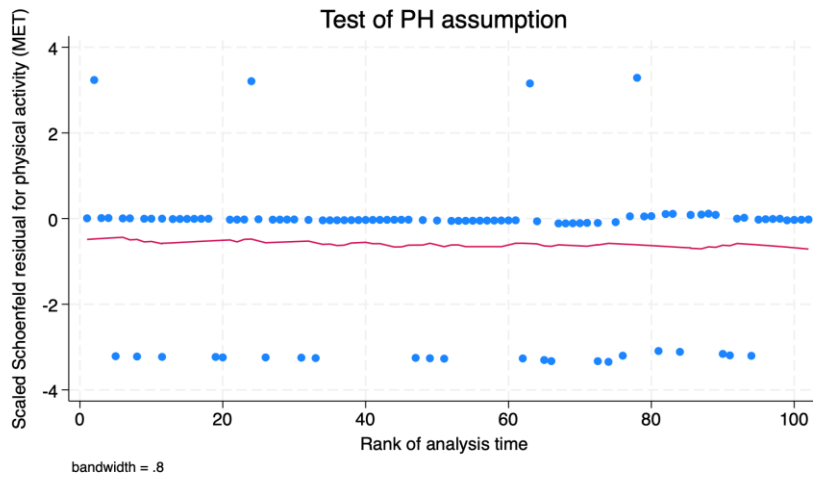
Supplement figure 9. Scaled Schoenfeld residual plot for daily or almost daily naps



Supplement figure 10. Scaled Schoenfeld residual plot for morningness – eveningness



Supplement figure 11. Scaled Schoenfeld residual plot for physical activity



Supplement figure 12. Margins plot with different categories of sleep duration

