

Supplementary Material

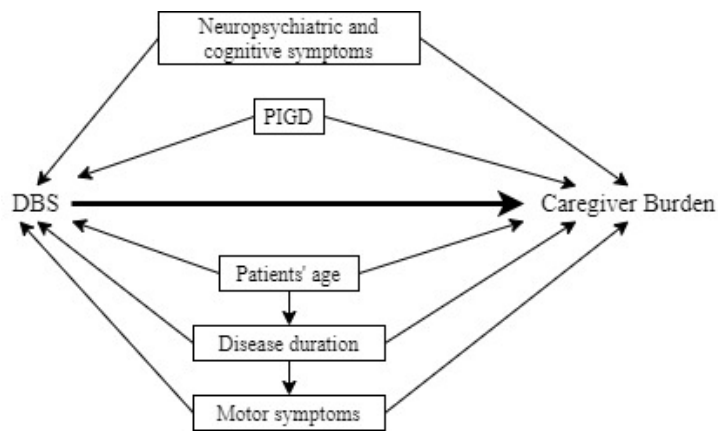
Patient-Related Factors Influencing Caregiver Burden in Parkinson's Disease Patients: Comparison of Effects Before and After Deep Brain Stimulation

Supplementary Table 1. Multivariable regression analysis (model 2)

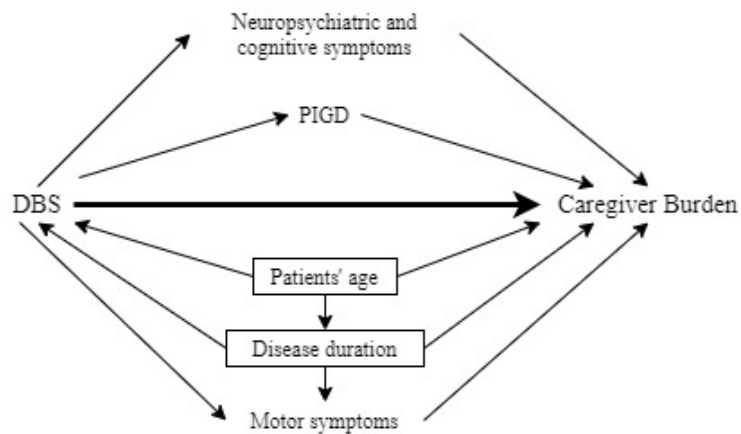
Questionnaire	β	p	95% CI	R ²
PDQ-39	0.129	0.091	-0.022 – 0.280	0.478
AS	0.672	0.016	0.134 – 1.211	
PAS	0.122	0.519	-0.258 – 0.502	
FOG	-0.050	0.833	-0.524 – 0.425	

Constant: B=-4.956; p=0.103; 95% CI -10.969 – 1.058

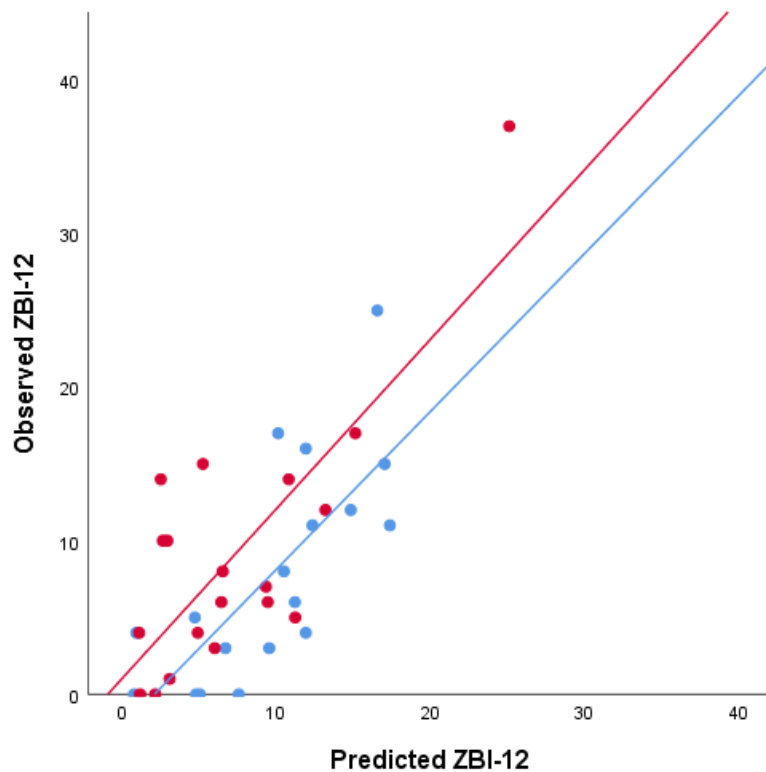
PDQ-39, 39-item Parkinson's Disease Questionnaire; AS, Apathy Scale; PAS, Parkinson Anxiety Scale; FOG, Freezing of Gait questionnaire



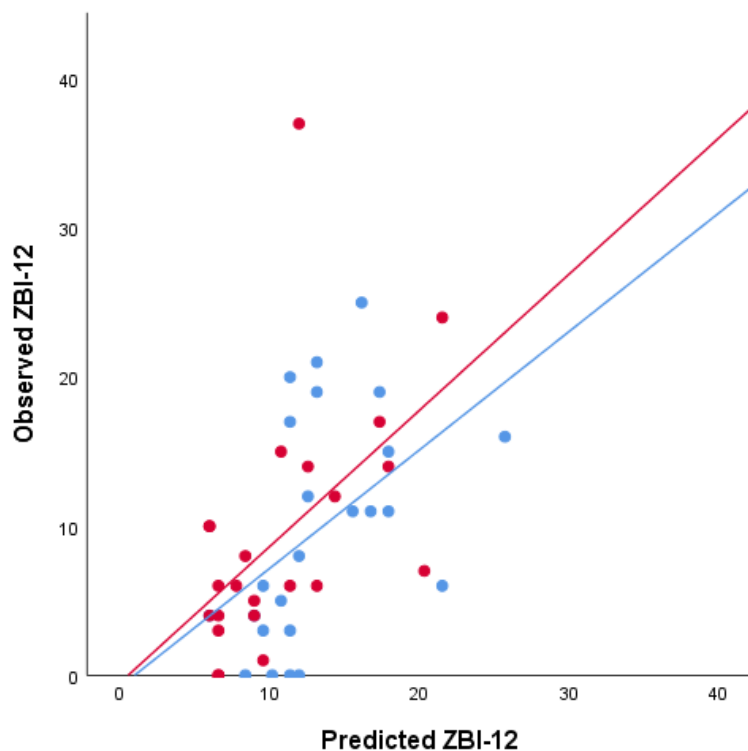
Supplementary Figure 1A. Hypothetical framework related to DBS surgery: the effect of patient-related covariates on DBS eligibility. Confounders are shown in boxes. DBS, Deep Brain Stimulation; PIGD, Postural-Instability-Gait-Disorder.



Supplementary Figure 1B. Hypothetical framework related to DBS surgery: the effect of DBS on patient-related covariates. Confounders are shown in boxes. DBS, Deep Brain Stimulation; PIGD, Postural-Instability-Gait-Disorder.



Supplementary Figure 2A. Predicted ZBI-12 value compared to observed ZBI-12 value. The predicted values are calculated on the base of the multivariable regression analysis (Table 3, $R^2=0.496$). The observed vs. predicted scores demonstrate a relatively good goodness-of-fit for both strata. Blue circles: screening assessment, red circles: follow-up assessment. Formula blue line: $y = 1.03 + 1.1x$, formula red line: $y = -2.16 + 1.03x$ ZBI-12, 12-item Zarit Burden Interview.



Supplementary Figure 2B. Predicted ZBI-12 value compared to observed ZBI-12 value. The predicted values are calculated on the base of the multivariable regression analysis (Supplement 1, $R^2=0.478$). The observed vs. predicted scores demonstrate a relatively good goodness-of-fit for both strata. Blue circles: screening assessment, red circles: follow-up assessment. Formula blue line: $y = -0.76 + 0.79x$, formula red line: $y = -0.49 + 0.91x$ ZBI-12, 12-item Zarit Burden Interview.