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Objectives:

- Parkinson's disease (PD) affects men approximately twice as often as women.
- Sex-related differences in clinical characteristics and prognosis have been reported.
- Previous longitudinal studies have shown conflicting results regarding survival.

The Aim:

The aim of our study is to examine gender differences in long-term survival of patients with PD.

Methods:

- **Population:** 106 patients with PD
- **Follow-up:** 10 years, longitudinal study
- **Survival analysis:** Kaplan–Meier + log-rank test
- **Regression analysis:** Cox proportional hazards regression.

Results:

Table 1. Baseline characteristics

	Male	Female	p
PD durations (years)	1.4±1.13	2.12±1.35	0.003*
SCOPA DS total	1.98±2.82	0.94±1.55	0.049*
ICD total	0.47±0.9	0.17±0.63	0.017*

No significant differences were observed in other demographic, motor and most non-motor characteristics at baseline. * p<0.05

Kaplan–Meier survival curves by sex

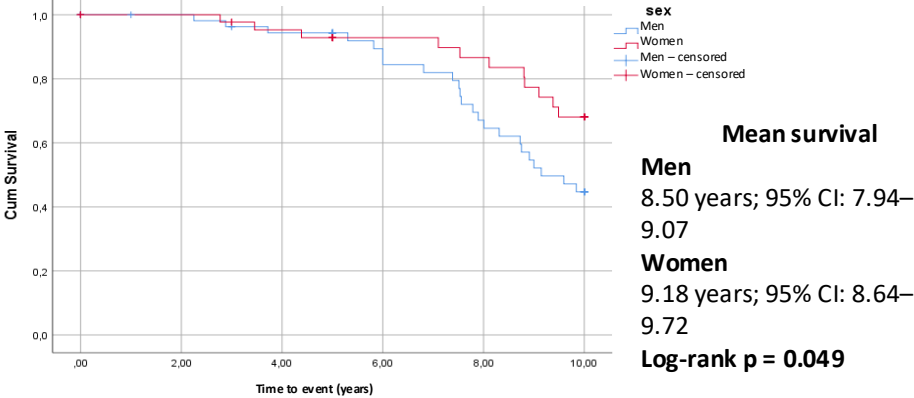


Table 2. Univariable Cox proportional hazards regression

	HR	95% CI	p value
Sex	2.03	0.988-2.03	0.054*
RBD	1.125	0.996-1.27	0.058*

None of the examined parameters were significantly associated with the primary outcome, but sex and REM sleep behavior disorder syndrome symptoms showed a trend toward an increased risk of the outcome.

Conclusion: Our study demonstrated significant difference in mean survival time between men and women. Although Cox regression didn't identify a statistically significant association between gender and outcome, the observed hazard ratio and corresponding model trend toward a potential difference in survival between sexes. There is a need to continue with further investigations.