

Table S1. Subgroup analyses of the unadjusted and adjusted odds ratios (95% confidence intervals) for anemia in the Parkinson's disease and control groups according to obesity, smoking, alcohol consumption, blood pressure, and fasting blood glucose

| Characteristics | Odds ratios for anemia | | | |
|--|------------------------|---------------------|-----------------------|--------------------|
| | Unadjusted | <i>p</i> value | Adjusted ^b | <i>p</i> value |
| BMI <23 (n = 11,747) | | | | |
| PD | 1.05 (0.95-1.17) | 0.342 | 1.03 (0.92-1.15) | 0.618 |
| Control | 1.00 | | 1.00 | |
| BMI ≥23 (n=17,473) | | | | |
| PD | 1.22 (1.10-1.35) | <0.001 ^a | 1.15 (1.06-1.28) | 0.001 ^a |
| Control | 1.00 | | 1.00 | |
| Nonsmoker (n = 22,178) | | | | |
| PD | 1.10 (1.01-1.19) | 0.024 ^a | 1.08 (0.99-1.18) | 0.070 |
| Control | 1.00 | | 1.00 | |
| Past smoker and current smoker (n = 7,042) | | | | |
| PD | 1.21 (1.02-1.42) | 0.029 ^a | 1.13 (0.99-1.34) | 0.190 |
| Control | 1.00 | | 1.00 | |
| Alcohol consumption <1 time a week (n = 21,501) | | | | |
| PD | 1.10 (1.01-1.19) | 0.026 ^a | 1.08 (0.99-1.17) | 0.089 |
| Control | 1 | | 1 | |
| Alcohol consumption ≥1 time a week (n = 7,719) | | | | |
| PD | 1.14 (0.96-1.36) | 0.132 | 1.12 (0.94-1.34) | 0.219 |
| Control | 1 | | 1 | |
| Systolic blood pressure <140 mmHg and diastolic blood pressure <90 mmHg (n = 19,651) | | | | |
| PD | 1.12 (1.03-1.23) | 0.048 ^a | 1.08 (0.98-1.18) | 0.116 |
| Control | 1 | | 1 | |
| Systolic blood pressure ≥140 mmHg or diastolic blood pressure ≥90 mmHg (n = 9,569) | | | | |
| PD | 1.15 (1.00-1.31) | 0.010 ^a | 1.12 (0.97-1.28) | 0.125 |
| Control | 1 | | 1 | |
| Fasting blood glucose <100 mg/dL (n = 16,820) | | | | |
| PD | 1.08 (0.98-1.19) | 0.141 | 1.04 (0.94-1.16) | 0.441 |
| Control | 1 | | 1 | |
| Fasting blood glucose ≥100 mg/dL (n = 12,400) | | | | |
| PD | 1.20 (1.08-1.34) | 0.001 ^a | 1.15 (1.02-1.29) | 0.020 ^a |
| Control | 1 | | 1 | |

Note: CCI-Charlson comorbidity index; PD-Parkinson's disease. ^aLogistic regression model. Significance at *p* <0.05.

^b Models adjusted for age, sex, income, region of residence, obesity, smoking, alcohol consumption, other degenerative diseases of the nervous system, head trauma history, systolic blood pressure, diastolic blood pressure, fasting blood glucose, and CCI scores.