



Supplementary table 1. Analyses of PD risk according to type of alcohol consumed

Characteristics of women at baseline ^{a,b} (n=763,718)	Alcohol type			
	Wine-only (n=178,632)	Beer/lager/cider only (n=34,438)	Spirits-only (n=40,047)	More than one type (n=510,601)
Mean alcohol intake (drinks/week)	5.3 (4.6)	3.6 (3.9)	4.4 (3.9)	7.7 (5.7)
g/week	52.8 (45.8)	36.0 (38.9)	43.7 (39.3)	77.0 (57.1)
Mean alcohol intake 14 years later (g/week) ^c	87.4 (24.0)	49.0 (18.3)	46.7 (15.7)	111.4 (27.7)
Age, years	56.3 (4.8)	56.2 (4.8)	56.6 (4.9)	56.3 (4.8)
Body mass index (kg/m ²)	25.4 (4.1)	26.4 (4.7)	26.6 (4.7)	25.7 (4.2)
Scotland	7.1	5.5	17.1	8.5
Most deprived quintile of Deprivation Index (%)	10.8	28.8	22.5	17.3
No educational qualification (%)	25.7	53.5	49.3	37.9
Current smoking status (%)	10.5	26.7	26.9	20.6
Strenuous exercise at least once per week (%) ^d	45.9	33.2	33.3	41.6
Diabetes (%) ^e	1.5	2.5	2.3	1.6
Hypertension (%) ^e	22.0	25.2	26.1	22.8
Heart disease (%) ^e	3.2	4.9	5.1	3.8
Stroke (%) ^e	0.8	1.3	1.3	0.9
History of Hormone Replacement Therapy (%)	51.6	49.5	51.0	53.4
Years of follow-up per woman	18.2 (3.1)	17.8 (3.5)	17.8 (3.5)	18.0 (3.3)
Number of cases	1,377	253	330	3,688

^a Values are means (SD) or percentages^b All characteristics represent those reported from the recruitment questionnaire (1996-2001), unless otherwise indicated^c Based on 33,703 women who completed the 24-hour recall online questionnaire^d “Strenuous” exercise refers to physical activity that is enough to cause sweating or a fast heart rate^e Hospital admission or self-reported history of illness or treatment

Supplementary table 2: Multivariable-adjusted Relative Risks (95% CI) of Parkinson's disease by categories of total alcohol intake from 3-year resurvey

Alcohol (drinks/week)	Cases (n=2,507)	Age-adjusted	Full follow-up		Excluding first 10 years	
		RR (95% CI)	Model 1	Model 2	Model 2	Model 2
		RR (95% CI)	RR (95% CI)	RR (95% CI)	Cases (n=1,714)	RR (95% CI)
1-2	577	1.00 (ref)	1.00 (ref)	1.00 (ref)	385	1.00 (ref)
>2-6	899	1.04 (0.93, 1.15)	1.05 (0.95, 1.17)	1.05 (0.95, 1.17)	608	1.06 (0.93, 1.21)
>6-14	811	0.98 (0.88, 1.09)	0.98 (0.88, 1.10)	0.99 (0.88, 1.10)	559	0.99 (0.86, 1.13)
>14	220	0.98 (0.84, 1.15)	1.01 (0.86, 1.19)	1.02 (0.87, 1.19)	162	1.06 (0.88, 1.29)

Model 1: Adjusted for age, smoking, region, deprivation index, educational attainment, strenuous exercise, body mass index, self-reported history of diabetes, hypertension, heart disease, stroke, and ever HRT use

Model 2: Additionally adjusted for family history of PD (mother or father), coffee and tea consumption