

Supplementary Material Online

Table S 1 Association between weekly alcohol consumption (in units) and a) PSA in control, b) prostate cancer risk comparing cases and controls. Geometric means of PSA and odds of prostate cancer and 95% confidence intervals by thirds of the distribution of alcohol consumption, test for trend and dose-response effect estimates.

a)

	Bottom third	Middle third	Top third		
	Mean [†] (95% CI)	Mean [†] (95% CI)	Mean [†] (95% CI)	Dose-response*	P for trend
Total weekly alcohol units	1.1 (0.3, 4.1)	1.0 (0.3, 3.5)	0.97 (0.3, 3.4)	0.98 (0.98, 0.99)	<0.001
Units from beer	1.1 (0.3, 3.9)	1.0 (0.3, 3.5)	0.95 (0.3, 3.1)	0.97 (0.96, 0.99)	<0.001
Units from wine / spirits	1.1 (0.3, 4.1)	1.0 (0.3, 3.5)	0.99 (0.3, 3.6)	0.98 (0.97, 1.00)	0.017

[†] Geometric mean

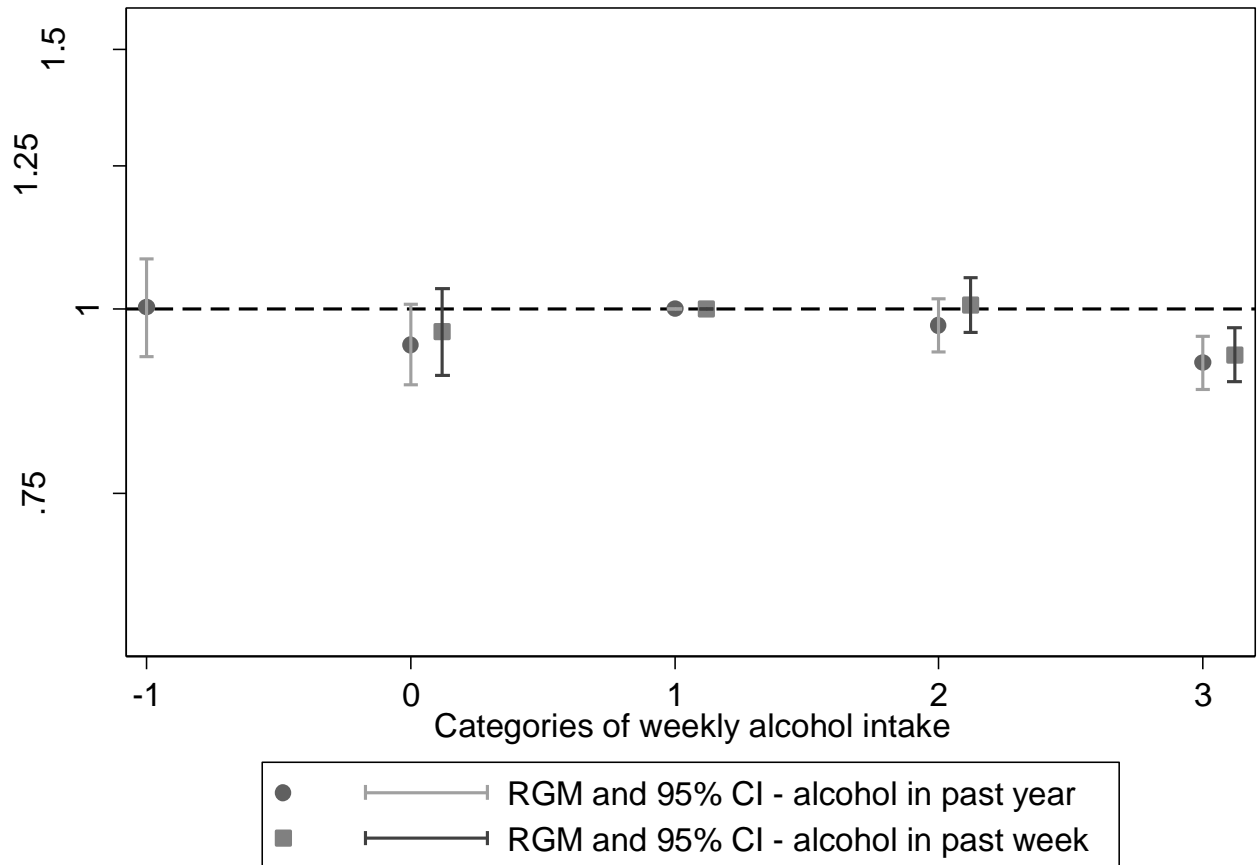
* Ratio of geometric means of PSA per 10 units increase a week, adjusted for age, centre and date of recruitment and clinic visit

b)

	Bottom third	Middle third	Top third		P for
	Odds (95% CI)	Odds (95% CI)	Odds (95% CI)	Dose-response*	trend
Total weekly alcohol units	0.20 (0.18; 1.21)	0.18 (0.17; 0.20)	0.18 (0.17; 0.20)	0.99 (0.96; 1.01)	0.347
Units from beer	0.20 (0.18; 0.21)	0.20 (0.18; 0.21)	0.18 (0.16; 0.19)	0.99 (0.95; 1.04)	0.771
Units from wine / spirits	0.20 (0.18; 0.22)	0.18 (0.16; 0.19)	0.18 (0.16; 0.20)	0.97 (0.93; 1.02)	0.196

* Odds ratio of prostate cancer per 10 units increase a week, from conditional logistic regressions additionally adjusted for age as continuous variable

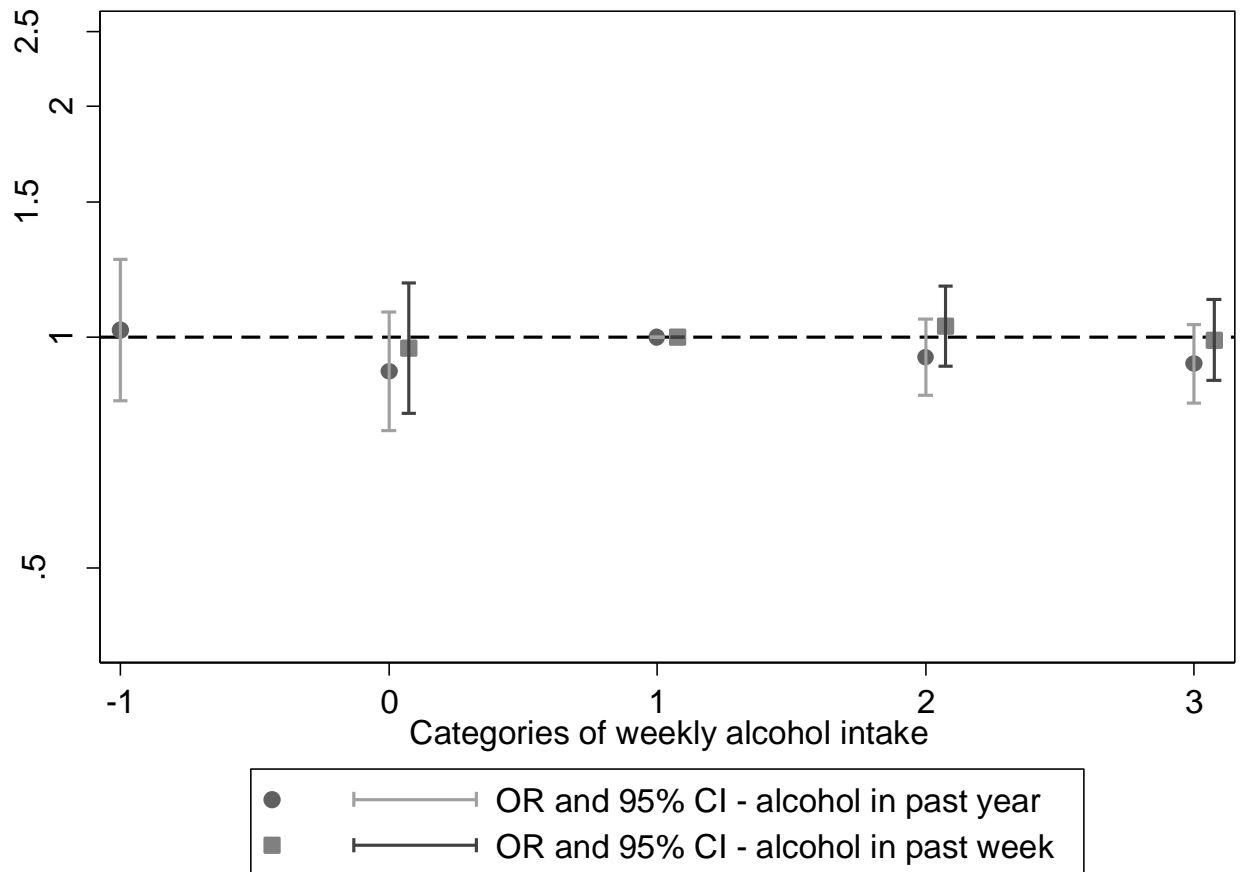
Figure S 1 Association of prostate-specific antigen (PSA) with weekly alcohol drinking during the past year and the past week before PSA test. Ratios of geometric means (RGM) of PSA levels among controls and 95% confidence intervals (CI).



X-axis legend:

- 1: men drinking on special occasions only; 0: non-drinkers; 1 to 3 refer to thirds of weekly alcohol intake, with the bottom third (1) being the reference category.

Figure S 2 Association of prostate cancer risk with weekly alcohol drinking during the past year and the past week before PSA test. Odds ratios (OR) and 95% confidence intervals (CI) from conditional logistic regressions.



X-axis legend:

-1: men drinking on special occasions only; 0: non-drinkers; 1 to 3 refer to thirds of weekly alcohol intake, with the bottom third (1) being the reference category.

Figure S 3 Schematic representation of the hypothesised pathways behind the alcohol-PSA association. Scenarios without (top panel) and with (bottom panel) the “sick quitter” effect. Abbreviations: SES – socio-economic status; CVD – cardio-vascular disease; PSA – prostate-specific antigen.

