Table S1. Weighted sample characteristics

	%[1]
All adults (n=188,787)	
Age	
Mean (SD)	48.0 (18.6)
18-24	12.3
25-34	17.1
35-44	16.4
45-54	17.3
55-64	14.7
≥65	22.2
Gender	
Men	48.9
Women	50.9
Other	0.3
Missing	147
Occupational social grade	
ABC1 (more advantaged)	55.6
C2DE (less advantaged)	44.4
Region	
North	28.1
Midlands	30.3
South	41.7
AUDIT-C score, mean (SD)	3.09 (2.90)
Increasing and higher risk drinking	
No	71.0
Yes	29.0
Smoking status	
Never	61.7
Former	21.0
Current	17.3
Use of non-combustible nicotine	
No	91.2
Yes	8.8
Adults who engaged in risky drinking (n=53,710)	
≥1 past-year alcohol reduction attempt	
No	71.2
Yes	28.8
Missing	5,480

Table is continued on the next page.

	%[1]
Adults who engaged in risky drinking and visited their GP in the past 12 months (n=31,815)	
Receipt of alcohol brief intervention	
No	97.1
Yes	2.9
Adults who currently smoked (n=31,730)	
Strength of urges to smoke	
Not at all	14.8
Slight	18.4
Moderate	43.5
Strong	16.1
Very strong	5.0
Extremely strong	2.3
Missing	568
Adults who smoked in the past year (n=34,795)	
≥1 past-year attempt to quit smoking	
No	66.1
Yes	33.9
Missing	1,277

[1] Data are shown as weighted percentages, unless otherwise specified. Sample sizes (including numbers of missing cases) are unweighted.

Table S2. Alcohol consumption among adults in England who drink alcohol (AUDIT-C ≥1), by smoking status, use of non-combustible nicotine, and (among those who currently smoked) strength of urges to smoke

	N^1	AUDIT-C score			Risky drinking (AUDIT-C ≥5)		
		Mean [95%CI]	B [95%CI]	B_{adj} [95%CI]^2	% [95%CI]	OR [95%CI]	OR_{adj} [95%CI]^2
All adults							
Smoking status							
Never	79,436	3.95 [3.93–3.97]	Ref	Ref	34.4 [34.1–34.8]	Ref	Ref
Former	32,522	4.61 [4.58–4.64]	0.66 [0.62; 0.69]	0.72 [0.68; 0.75]	45.3 [44.7–45.9]	1.58 [1.53; 1.62]	1.80 [1.75; 1.86]
Current	21,877	5.23 [5.19–5.27]	1.28 [1.24; 1.33]	1.11 [1.07; 1.16]	55.4 [54.7–56.1]	2.36 [2.29; 2.44]	2.22 [2.14; 2.30]
Use of non-combustible nicotine							
No	122,434	4.23 [4.22–4.25]	Ref	Ref	39.1 [38.8–39.3]	Ref	Ref
Yes	11,401	5.24 [5.18–5.29]	1.00 [0.95; 1.06]	0.24 [0.18; 0.30]	55.6 [54.7–56.6]	1.96 [1.88; 2.04]	1.15 [1.09; 1.21]
Adults who currently smoked							
Strength of urges to smoke							
Not at all	3,439	5.25 [5.15–5.36]	Ref	Ref	56.9 [55.1–58.7]	Ref	Ref
Slight	3,979	5.16 [5.07–5.26]	-0.05 [-0.17; 0.07]	0.03 [-0.09; 0.15]	55.7 [54.0–57.3]	0.97 [0.89; 1.06]	1.03 [0.94; 1.13]
Moderate	9,187	5.10 [5.04–5.17]	-0.11 [-0.22; -0.01]	0.08 [-0.02; 0.18]	53.6 [52.5–54.7]	0.90 [0.84; 0.97]	1.04 [0.96; 1.12]
Strong	3,428	5.33 [5.22–5.43]	0.09 [-0.04; 0.23]	0.30 [0.17; 0.43]	55.9 [54.1–57.7]	0.98 [0.89; 1.08]	1.15 [1.04; 1.28]
Very strong	1,001	5.70 [5.49–5.92]	0.47 [0.24; 0.70]	0.66 [0.44; 0.88]	58.2 [54.9–61.5]	1.06 [0.91; 1.23]	1.24 [1.06; 1.45]
Extremely strong	475	6.61 [6.29–6.93]	1.34 [1.01; 1.67]	1.46 [1.13; 1.78]	70.0 [65.6–74.3]	1.74 [1.41; 2.15]	2.10 [1.68; 2.63]

CI, confidence interval. OR, odds ratio.

[1] Unweighted sample size.

[2] All models were adjusted for age, gender, occupational social grade, and survey year (modelled non-linearly using restricted cubic splines, three knots). Models with smoking status as the exposure were also adjusted for use of non-combustible nicotine. Models with use of non-combustible nicotine as the exposure were also adjusted for smoking status.

Table S3. Receipt of different types of advice on alcohol from a health professional within their GP surgery among adults in England who engaged in risky drinking and visited their GP, by smoking status and use of non-combustible nicotine

	N^1	Asked about my drinking	Offered advice about cutting down on my drinking	Offered help or support within the surgery to help me cut down	Referred me to an alcohol service or advised me to seek specialist help	Did not discuss my drinking
		Advice received, % [95%CI]				
Adults who engaged in risky drinking and visited their GP						
Smoking status						
Never	15,776	11.1 [10.6–11.6]	1.93 [1.70–2.16]	0.53 [0.40–0.65]	0.37 [0.26–0.47]	86.9 [86.3–87.4]
Former	9,382	13.9 [13.2–14.7]	3.50 [3.09–3.91]	0.73 [0.53–0.92]	0.58 [0.41–0.75]	83.2 [82.4–84.0]
Current	6,657	11.5 [10.7–12.3]	3.75 [3.28–4.23]	1.47 [1.17–1.76]	2.26 [1.87–2.65]	83.8 [82.8–84.7]
Use of non-combustible nicotine						
No	28,276	11.9 [11.5–12.3]	2.58 [2.38–2.77]	0.68 [0.57–0.78]	0.73 [0.62–0.84]	85.4 [84.9–85.8]
Yes	3,539	12.5 [11.3–13.7]	4.25 [3.53–4.98]	1.63 [1.18–2.07]	1.65 [1.19–2.11]	83.3 [81.9–84.6]

CI, confidence interval.

[1] Unweighted sample size.