

**S1 Table.** Dose-response association of the amount of alcohol consumed on a single occasion and the frequency of alcohol consumption with kidney cancer risk according to glycemic status

Glycemic status	Alcohol consumption	No.	Event, n	Person-years	IR <sup>a)</sup>	Hazard ratio (95% CI)			
						Model 1	Model 2	Model 3	Model 4
Amount of alcohol consumed on a single occasion									
Normoglycemia	0	3,256,629	3,552	26,877,443	1.3	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	1-2	503,796	497	4,164,852	1.2	0.90 (0.82-0.99)	0.95 (0.86-1.04)	0.94 (0.85-1.03)	0.95 (0.86-1.04)
	3-4	726,271	730	6,010,093	1.2	0.92 (0.85-0.996)	0.90 (0.83-0.98)	0.88 (0.81-0.96)	0.88 (0.81-0.95)
	5-7	1,056,889	1,225	8,745,373	1.4	1.06 (0.99-1.13)	1.05 (0.98-1.12)	1.01 (0.94-1.09)	0.98 (0.92-1.05)
	≥ 8	962,045	1,020	7,982,962	1.3	0.97 (0.90-1.04)	1.09 (1.02-1.18)	1.05 (0.97-1.13)	1.01 (0.93-1.09)
Prediabetes	0	991,314	1,521	8,124,904	1.9	1.42 (1.34-1.51)	1.11 (1.05-1.18)	1.11 (1.05-1.18)	1.05 (0.99-1.12)
	1-2	147,183	214	1,207,199	1.8	1.34 (1.17-1.54)	0.99 (0.86-1.13)	0.97 (0.85-1.12)	0.93 (0.81-1.07)
	3-4	239,976	396	1,969,052	2	1.52 (1.37-1.69)	1.07 (0.96-1.19)	1.05 (0.94-1.16)	0.99 (0.89-1.10)
	5-7	416,241	673	3,421,347	2	1.49 (1.37-1.62)	1.12 (1.02-1.21)	1.08 (0.99-1.18)	0.99 (0.91-1.08)
	≥ 8	367,822	568	3,033,345	1.9	1.42 (1.30-1.55)	1.26 (1.15-1.38)	1.21 (1.10-1.33)	1.11 (1.01-1.22)
Diabetes	0	459,657	1,027	3,655,723	2.8	2.13 (1.99-2.29)	1.27 (1.19-1.37)	1.27 (1.18-1.36)	1.10 (1.02-1.18)
	1-2	46,765	111	372,484	3	2.26 (1.87-2.73)	1.15 (0.95-1.39)	1.13 (0.93-1.36)	0.99 (0.82-1.20)
	3-4	75,251	213	603,243	3.5	2.68 (2.34-3.08)	1.34 (1.16-1.54)	1.30 (1.13-1.50)	1.13 (0.98-1.30)
	5-7	132,936	348	1,070,055	3.3	2.47 (2.21-2.76)	1.36 (1.22-1.52)	1.31 (1.17-1.47)	1.12 (1.01-1.26)
	≥ 8	109,556	286	888,559	3.2	2.44 (2.17-2.75)	1.62 (1.43-1.83)	1.55 (1.37-1.76)	1.31 (1.16-1.48)
Frequency of alcohol consumption (days per week)									
Normoglycemia	0	3,256,629	3,552	26,877,443	1.3				
	1-2	2,480,642	2,390	20,590,541	1.2	0.88 (0.83-0.93)	1.00 (0.95-1.06)	0.97 (0.92-1.03)	0.96 (0.91-1.02)
	3-4	569,798	709	4,702,218	1.5	1.14 (1.05-1.24)	0.99 (0.91-1.07)	0.95 (0.87-1.03)	0.92 (0.84-0.997)
	≥ 5	198,561	373	1,610,521	2.3	1.76 (1.58-1.95)	1.00 (0.90-1.12)	0.96 (0.86-1.08)	0.95 (0.85-1.06)
Prediabetes	0	991,314	1,521	8,124,904	1.9	1.42 (1.34-1.51)	1.11 (1.05-1.18)	1.11 (1.05-1.18)	1.05 (0.99-1.12)
	1-2	781,315	1,096	6,449,416	1.7	1.29 (1.20-1.38)	1.10 (1.03-1.18)	1.07 (0.998-1.15)	1.00 (0.93-1.08)
	3-4	272,329	493	2,233,550	2.2	1.67 (1.52-1.84)	1.18 (1.07-1.30)	1.13 (1.03-1.25)	1.04 (0.94-1.15)
	≥ 5	117,578	262	947,978	2.8	2.10 (1.85-2.38)	1.07 (0.94-1.22)	1.03 (0.91-1.17)	0.97 (0.85-1.10)
Diabetes	0	459,657	1,027	3,655,723	2.8	2.13 (1.99-2.29)	1.28 (1.19-1.37)	1.27 (1.19-1.37)	1.10 (1.02-1.18)
	1-2	221,085	568	1,794,454	3.2	2.40 (2.20-2.62)	1.44 (1.32-1.58)	1.40 (1.28-1.53)	1.20 (1.10-1.32)
	3-4	92,190	244	740,195	3.3	2.50 (2.20-2.85)	1.36 (1.19-1.55)	1.30 (1.14-1.49)	1.11 (0.97-1.27)
	≥ 5	51,233	146	399,692	3.7	2.79 (2.36-3.29)	1.22 (1.03-1.44)	1.17 (0.99-1.39)	1.02 (0.86-1.20)

CI, confidence interval; IR, incidence rate. <sup>a)</sup>Kidney cancer incidence rate per 10,000 person-years.