

Supplementary TABLE 1 Results from a pooled analysis using a random-effects model for stomach cancer incidence by alcohol intake in Japanese men, 1988–2014, separating former drinkers from nondrinkers

Site of cancer	Total	Nondrinkers	Former drinkers	Occasional drinkers (<once/week)	Regular drinkers (≥once/week)					<i>p</i> for heterogeneity for the highest category ^f	Alcohol intake as a continuous variable (per 10 g/day)			
					<23 g/day	23 to <46 g/day	46 to <69 g/day	69 to <92 g/day	≥92 g/day		HR (95% CI)	<i>p</i> for trend	<i>p</i> for heterogeneity ^f	
Total														
No. of subjects	99,712	18,342	7,248	6,166	20,623	20,265	17,257	6,845	2,966					
No. of cases	4,930	881	403	262	932	1,032	946	338	136					
Person-years	1,538,641	279,530	88,171	100,511	325,663	318,115	273,503	107,816	45,332					
Incidence rate per 100,000 person-years	320	315	457	261	286	324	346	313	300					
Age- and area-adjusted HR (95% CI) as model 1 ^a		1.00 (reference)	1.22 (1.04–1.44)	1.04 (0.84–1.29)	1.06 (0.90–1.26)	1.17 (1.04–1.32)	1.30 (1.11–1.51)	1.29 (1.04–1.60)	1.44 (1.10–1.88)	0.113	1.039 (1.020–1.058)	<0.001	0.005	
Multivariate-adjusted HR (95% CI) in model 2 ^b		1.00 (reference)	1.18 (0.99–1.40)	1.04 (0.84–1.28)	1.07 (0.91–1.25)	1.14 (1.02–1.28)	1.25 (1.07–1.45)	1.22 (0.99–1.51)	1.36 (1.03–1.79)	0.107	1.032 (1.015–1.049)	<0.001	0.030	
Multivariate-adjusted HR (95% CI) in model 3 ^c		1.00 (reference)	1.16 (0.95–1.43)	1.03 (0.80–1.33)	1.03 (0.88–1.19)	1.11 (1.01–1.22)	1.19 (1.05–1.36)	1.18 (0.96–1.45)	1.26 (1.00–1.60)	0.274	1.029 (1.010–1.049)	0.003	0.050	
Multivariate-adjusted HR (95% CI) in model 4 ^d		1.00 (reference)	1.13 (0.94–1.34)	1.03 (0.82–1.31)	1.06 (0.90–1.23)	1.11 (0.99–1.24)	1.23 (1.06–1.42)	1.22 (0.97–1.53)	1.21 (0.99–1.48)	0.466	1.027 (1.011–1.043)	0.001	0.101	
Multivariate-adjusted HR (95% CI) in model 5 ^e		1.00 (reference)	1.09 (0.91–1.31)	1.04 (0.80–1.35)	1.00 (0.89–1.12)	1.07 (0.96–1.19)	1.16 (1.03–1.30)	1.14 (0.96–1.34)	1.17 (0.94–1.46)	0.385	1.025 (1.006–1.044)	0.009	0.078	
Proximal (upper third)														
No. of subjects	99,712	18,342	7,248	6,166	20,623	20,265	17,257	6,845	2,966					
No. of cases	569	107	44	31	103	108	113	41	22					
Person-years	1,554,652	282,973	89,872	101,682	329,854	322,847	277,806	109,260	40,358					
Incidence rate per 100,000 person-years	37	38	49	30	31	33	41	38	55					
Age- and area-adjusted HR (95% CI) as model 1 ^a		1.00 (reference)	1.09 (0.73–1.64)	1.01 (0.66–1.56)	0.90 (0.68–1.19)	0.99 (0.74–1.32)	1.22 (0.88–1.71)	1.21 (0.82–1.79)	1.75 (1.10–2.79)	0.958	1.033 (1.009–1.058)	0.008	0.542	
Multivariate-adjusted HR (95% CI) in model 2 ^b		1.00 (reference)	1.01 (0.67–1.51)	1.00 (0.65–1.52)	0.90 (0.69–1.19)	0.96 (0.71–1.30)	1.16 (0.84–1.59)	1.12 (0.77–1.64)	1.65 (1.04–2.64)	0.974	1.028 (1.003–1.054)	0.028	0.765	
Multivariate-adjusted HR (95% CI) in model 3 ^c		1.00 (reference)	1.02 (0.68–1.54)	0.98 (0.56–1.73)	0.95 (0.63–1.44)	1.03 (0.67–1.57)	1.27 (0.85–1.89)	1.40 (0.72–2.72)	2.14 (1.28–3.56)	0.506	1.034 (1.010–1.058)	0.005	0.500	
Multivariate-adjusted HR (95% CI) in model 4 ^d		1.00 (reference)	1.05 (0.69–1.59)	0.97 (0.62–1.52)	0.87 (0.63–1.20)	1.02 (0.76–1.36)	1.22 (0.91–1.63)	1.19 (0.79–1.78)	1.57 (0.92–2.68)	0.746	1.029 (1.003–1.056)	<0.001	0.821	
Multivariate-adjusted HR (95% CI) in model 5 ^e		1.00 (reference)	1.06 (0.61–1.85)	0.92 (0.54–1.57)	0.90 (0.54–1.49)	1.07 (0.72–1.60)	1.33 (0.91–1.96)	1.38 (0.70–2.74)	2.06 (0.98–4.34)	0.229	1.035 (1.011–1.059)	0.004	0.575	
Distal (lower two thirds)														
No. of subjects	99,712	18,342	7,248	6,166	20,623	20,265	17,257	6,845	2,966					
No. of cases	2,775	469	207	160	527	598	545	194	75					
Person-years	1,548,463	281,274	88,987	100,959	327,580	320,147	275,412	108,488	45,616					
Incidence rate per 100,000 person-years	179	167	233	158	161	187	198	179	164					
Age- and area-adjusted HR (95% CI) as model 1 ^a		1.00 (reference)	1.21 (1.02–1.43)	1.17 (0.85–1.61)	1.08 (0.88–1.32)	1.30 (1.05–1.63)	1.42 (1.12–1.79)	1.34 (1.01–1.77)	1.33 (0.94–1.87)	0.172	1.040 (1.018–1.062)	<0.001	0.037	
Multivariate-adjusted HR (95% CI) in model 2 ^b		1.00 (reference)	1.17 (0.99–1.39)	1.16 (0.85–1.60)	1.08 (0.99–1.30)	1.27 (1.02–1.57)	1.36 (1.08–1.71)	1.27 (0.95–1.68)	1.25 (0.89–1.76)	0.176	1.033 (1.013–1.053)	0.001	0.069	
Multivariate-adjusted HR (95% CI) in model 3 ^c		1.00 (reference)	1.16 (0.97–1.40)	1.23 (0.82–1.85)	1.02 (0.86–1.21)	1.22 (0.98–1.52)	1.29 (1.01–1.66)	1.21 (0.90–1.63)	1.09 (0.83–1.43)	0.396	1.026 (1.005–1.048)	0.016	0.127	
Multivariate-adjusted HR (95% CI) in model 4 ^d		1.00 (reference)	1.17 (0.95–1.44)	1.22 (0.84–1.78)	1.14 (0.91–1.43)	1.28 (1.01–1.62)	1.37 (1.04–1.82)	1.28 (0.96–1.71)	1.12 (0.85–1.47)	0.713	1.026 (1.006–1.046)	0.010	0.130	
Multivariate-adjusted HR (95% CI) in model 5 ^e		1.00 (reference)	1.12 (0.92–1.37)	1.30 (0.81–2.09)	1.06 (0.86–1.30)	1.18 (0.95–1.46)	1.25 (0.96–1.62)	1.16 (0.90–1.50)	1.05 (0.78–1.40)	0.497	1.019 (1.001–1.038)	0.044	0.277	

^aAdjusted for age and area (JPHC Study II, JACC Study, and Life Span Study only).

^bAdjusted for covariates in model 1 plus smoking status (pack-years: 0, <20, 20 to <40, and ≥40) and medical history of diabetes mellitus (yes, no).

^cAdjusted for covariates in model 2 plus total energy intake (quartiles), vegetable intake (quartiles), fruit intake (quartiles), salt intake (quartiles), and green tea consumption (cups/day: <1, 1–2, 3–4, and ≥5).

^dExcluding participants with stomach cancer diagnosis within 3 years from the baseline in model 2.

^eExcluding participants with stomach cancer diagnosis within 3 years from the baseline in model 3.

^fIndicating heterogeneity among the pooled cohort studies.

Abbreviations: CI, confidence interval; HR, hazard ratio; JACC Study, the Japan Collaborative Cohort Study; JPHC Study, the Japan Public Health Center-based Prospective Study.