

Table 2.32. Meta- and pooled-analyses of consumption of alcoholic beverages and cancer of the lung

Reference, study location, period	Organ site (ICD code)	Characteristics of study population	Exposure categories	Relative risk	95% CI	<i>p-value</i>	Adjustment factors	Comments	
Korte <i>et al.</i> (2002)	Lung	Meta-analysis of 14 cohort studies including published studies and re-analysis of data from Cancer Prevention Study I and II (CPSI and CPSII); 11 case-control studies	Case-control studies						
			<i>Ethanol (g/month)</i>						
			Non-drinker	Pooled OR	1.00				At least smoking
			1–499	0.63	0.51–0.78				
			500–999	1.30	0.98–1.70				
			1 000–1999	1.13	0.46–2.75				
			≥ 2000	1.86	1.39–2.49				
			<i>Overall</i>	1.39	1.06–1.83				
			Cohort studies ^a						
			<i>Ethanol (g/month)</i>						
			Non-drinker	1.00					
			1–499	0.98	0.79–1.21				
			500–999	0.92	0.81–1.04				
			1 000–1999	1.04	0.88–1.22				
			≥ 2000	1.53	1.04–2.25				
			<i>Overall</i>	1.19	1.11–1.29				
Cohort studies ^b									
<i>Ethanol (g/month)</i>									
Non-drinker	1.00								
1–499	0.95	0.87–1.04							
500–999	1.00	0.94–1.07							
1 000–1999	1.17	1.02–1.33							
≥ 2000	1.35	1.16–1.58							

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Fan and Cai (2009)	Lung	Meta-analysis of 21 (6 cohort and 15 case-control) studies published between 1992 to 2007	Alcohol drinking				Varied	The number of studies included in analyses for all alcoholic beverage types (beer, red wine, and spirits) was 8. High heterogeneity in the majority of analyses
			Men + women	1.17	0.96–1.42			
			Men only	1.67	0.61–4.59			
			Women only	0.93	0.51–1.68			
			Beer					
			Men + women	1.28	1.03–1.60			
			Men only	1.46	1.28–1.67			
			Women only	0.92	0.72–1.17			
			Red wine					
			Men + women	0.78	0.54–1.11			
			Men only	0.98	0.62–1.55			
			Women only	0.49	0.22–1.08			
			Spirits					
Men + women	1.34	1.02–1.74						
Men only	1.39	0.98–1.99						
Women only	0.73	0.58–0.93						

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Freudenheim <i>et al.</i> (2005)	Lung	Pooled analysis of 7 cohort studies (Alpha-Tocopherol Beta-Carotene Cancer Prevention Study, Canadian National Breast Screening Study, Health Professionals Follow-Up Study, Iowa Women's Health Study, Netherlands Cohort Study, New York State Cohort, Nurses' Health Study)	Alcohol Intake (g/day)	Pooled RR				
			<i>Men</i>	1.00				
			None	0.86	0.71–1.03	p for trend = 0.03	Education, body mass index, energy intake, smoking status, smoking duration, cigarettes smoked daily for current smokers	
			> 0 to < 5	1.00	0.84–1.20			
			5 to < 15	0.83	0.62–1.10			
			15 to < 30	1.21	0.91–1.61			
			<i>Women</i>	1.00				
			None	0.78	0.78–0.91	p for trend = 0.02		
			> 0 to < 5	0.81	0.68–0.97			
			5 to < 15	0.92	0.74–1.13			
15 to < 30	1.16	0.94–1.43						

^a Including already published results from CPS I and CPS II

^b Including re-analysis of CPS I and CPS II data

^c Studies that included never-smokers only or that adjusted for current smoking status and/or duration since quitting for former smokers, in addition to pack-years smoked