

Table 2.50. Case-control studies of leukemias and lymphomas

Reference, study location and period	Organ site (ICD code)	Characteristics of cases	Characteristics of controls	Exposure assessment	Exposure categories	Relative risk (95%CI)*	Adjustment for potential confounders	Comments
Stagnaro <i>et al.</i> (2004) Eleven Italian areas, 1990-93 Population-based	Non-Hodgkin's lymphoma (ICD-9 200, 202)	All incident cases identified through Cancer Registries, departments of pathology and hospital discharge records (N=1450, 82% of those eligible).	Random sample of population, frequency matched by area, calendar period, gender, and age to cases (N=1779, 74% of eligible subjects)	Face to face interview with standardized questionnaire	<i>Blond tobacco</i> Never smoker Former smoker Current smoker <i>Black tobacco</i> Never smoker Former smoker Current smoker Intensity (pack-years) <i>Blond tobacco</i> Never smoker ≤12 13-29 ≥30 p for trend <i>Black tobacco</i> Never smoker ≤12 13-29 ≥30 p for trend Years since cessation <i>Blond tobacco</i> 1-4 5-9 ≥10 p for trend <i>Black tobacco</i> 1-4 5-9 ≥10 p for trend	1.0 1.5 (1.1-1.9) 1.3 (1.1-1.7) 1.0 0.89 (0.62-1.3) 0.72 (0.41-1.3) – 1.0 1.3 (1.0-1.7) 1.5 (1.1-2.0) 1.4 (0.97-2.0) – 1.0 1.0 (0.65-1.7) 1.1 (0.79-1.5) 1.2 (0.93-1.6) – 2.0 (1.2-3.3) 1.3 (0.80-2.2) 1.4 (0.99-2.0) – 1.0 (0.56-1.9) 1.2 (0.75-2.0) 1.0 (0.71-1.5)	Age, gender, residence, type of interview, education	

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Glaser <i>et al.</i> (2004) San Francisco Bay area, 1990-96 Population-based	Hodgkin lymphoma Women only	All incident cases in women identified through Cancer Registry (N=312, 85% of those eligible).	Random sample (random digit dialing), frequency matched by gender, ethnicity and age to cases (N=325, 72% of eligible subjects)	Face to face interview with standardized questionnaire	<i>Women only</i>		Age, ethnicity, SES indicators, birth place, breast feeding, education	
					Never smoker	1.0		
					Former smoker	1.2 (0.7-1.9)		
					Current smoker	0.9 (0.6-1.4)		
					Ever smokers			
					Intensity (pack-years)			
					Never smoker	1.0		
					<3.75	1.0 (0.6-1.6)		
					≥3.75	1.0 (0.6-1.7)		
					p for trend	-		
Duration								
Never smokers								
<8	1.0							
≥8	1.4 (0.8-2.3)							
p for trend	1.1 (0.7-2.0)							
Years since cessation								
<5	0.9 (0.5-1.8)							
≥5	0.6 (0.3-1.4)							

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Schöllkopf <i>et al.</i> (2005) Nationwide, Sweden, 1999-2002 Population-based	Non-Hodgkin's lymphoma (ICD10 C82–C85, C88.0, C91.1, C91.3–5, C91.7)	All incident cases in Denmark and Sweden, identified through hospital records, cancer registries and pathology registries (N=3055, 81% of those eligible).	Random sample from entire Danish and Swedish population (computerized population registries), frequency matched by gender and age to cases (N=3187, 71% of eligible subjects)	Telephone–administered standardized questionnaire	Never smoker Former smoker Current smoker Intensity Never smoker 1-9 10-19 20+ <i>p</i> for trend Duration Never smokers ≤9 10-29 30+ <i>p</i> for trend Years since cessation 1-9 10-19 20+	1.0 0.95 (0.84–1.08) 0.99 (0.86–1.13) 1.0 1.01 (0.77–1.31) 1.05 (0.88–1.24) 0.91 (0.73–1.14) 0.97 1.0 0.90 (0.43–1.90) 0.95 (0.71–1.27) 1.02 (0.88–1.18) 0.98 0.98 (0.80–1.19) 0.93 (0.77–1.12) 0.96 (0.82–1.13)	Age, gender, country, education	No association found with any of the histological subtypes. In subgroup analysis T–cell lymphoma was associated with smoking in men.

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Bracci & Holly (2005) San Francisco Bay area, 1988-1995 Population-based	Non-Hodgkin's lymphoma	All incident cases in Denmark and Sweden, identified through hospital records, cancer registries and pathology registries (N=2812 eligible, 593 died before interview, 1304 interviewed, 41% of those eligible).	Random digit dialing, frequency matched by gender, county and age to cases (N=2515, 78% of eligible subjects; only 2402 HIV-negative selected)	Face to face interviews with standardized questionnaire	Intensity <i>Men</i> Never smoker <10 10 <20 20 >20 <i>p</i> for trend <i>Women</i> Never smoker <8 8-16 17-20 >20 <i>p</i> for trend Duration <i>Men</i> Never smokers ≤10 >10 <20 20 <33 ≥33 <i>p</i> for trend <i>Women</i> Never smokers <13 13-25 25-38 >38 <i>p</i> for trend	1.0 0.78 (0.55–1.1) 1.2 (0.92–1.7) 1.2 (0.95–1.6) 1.1 (0.85–1.5) - 1.0 1.0 (0.75–1.4) 1.0 (0.73–1.4) 0.86 (0.62–1.2) 1.0 (0.74–1.5) 1.0 1.1 (0.85–1.5) 1.0 (0.78–1.5) 1.0 (0.76–1.4) 1.2 (0.92–1.7) - 1.0 0.90 (0.64–1.3) 0.87 (0.69–1.3) 0.96 (0.69–1.3) 1.2 (0.88–1.7)	Age, education, alcohol intake	

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Bracci & Holly (2005) (contd)	Non-Hodgkin's lymphoma	All incident cases in Denmark and Sweden, identified through hospital records, cancer registries and pathology registries (N=2812 eligible, 593 died before interview, 1304 interviewed, 41% of those eligible).	Random digit dialing, frequency matched by gender, county and age to cases (N=2515, 78% of eligible subjects; only 2402 HIV-negative selected)	Face to face interviews with standardized questionnaire	Years since cessation <i>Men</i> Never smokers ≥24 >14-24 >7-14 ≤7 Current smoker <i>Women</i> Never smoker ≥25 13<25 6<13 <6 Current smoker	1.0 1.1 (0.81–1.6) 1.3 (0.95–1.8) 1.1 (0.76–1.5) 1.2 (0.87–1.7) 0.97 (0.74–1.3) 1.0 0.57 (0.36–0.91) 1.4 (0.99–2.1) 0.67 (0.44–1.0) 1.1 (0.71–1.6) 1.1 (0.82–1.4)	Age, education, alcohol intake	