

**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 <b>Intensity (pack-years)</b> <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 <b>Years since cessation</b> <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	<p><i>Women only</i></p> <p>Never smoker Former smoker Current smoker</p> <p><b>Ever smokers</b></p> <p><b>Intensity (pack-years)</b></p> <p>Never smoker &lt;3.75 ≥3.75 p for trend</p> <p><b>Duration</b></p> <p>Never smokers &lt;8 ≥8 p for trend</p> <p><b>Years since cessation</b></p> <p>&lt;5 ≥5</p>	<p>1.0 1.2 (0.7–1.9) 0.9 (0.6–1.4)</p> <p>1.0 1.0 (0.6–1.6) 1.0 (0.6–1.7) –</p> <p>1.0 1.4 (0.8–2.3) 1.1 (0.7–2.0) –</p> <p>0.9 (0.5–1.8) 0.6 (0.3–1.4)</p>	Age, ethnicity, SES indicators, birth place, breast feeding, education	

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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  <b>Intensity</b> Never smoker 1-9 10-19 20+ <i>p</i> for trend  <b>Duration</b> Never smokers ≤9 10-29 30+ <i>p</i> for trend  <b>Years since cessation</b> 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	<b>Intensity</b> <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  <b>Duration</b> <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	<b>Years since cessation</b> <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	