

Table 2.48. Case-control studies of urinary tract cancer

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
Cao <i>et al</i> (2005) New York, 1994-1997 Hospital-based	Bladder cancer (ICD 188)	145 cases with histological confirmed bladder cancer and biopsies available for DNA extraction (233 eligible). Recruited in large hospital (MSKCC)	Cancer-free subjects recruited at blood bank of MSKCC. Out of 240 interviewed (no. eligible not given), 170 donated blood	Interviewer-administered standardized questionnaire	Pack-years Never smoker <20 20 to <40 40 to <60 ≥60 <i>p</i> for trend Years since quitting Never smoker 1 to <10 10 to <20 ≥20 <i>p</i> for trend	1.0 1.5 (0.7–3.1) 1.6 (0.7–3.7) 3.2. (1.2–8.3) 7.3 (2.7–19.9) <0.0001 1.0 3.0 (1.3–7.1) 1.1 (0.5–2.4) 0.6 (0.3–1.4) 0.89	Age, gender, ethnicity, education	Pack-years used instead of intensity
Samanic <i>et al</i> (2006) Five regions in Spain, 1998-2000 Hospital-based	Bladder cancer (ICD-9 188)	1219 cases (out of 1453 eligible), residents in catchment area of 18 hospitals	1271 matched hospital controls (1442 eligible). Matching on age, gender, ethnicity, hospital. Including 36% hernias, 24% fractures, and minor surgery.	Interviewer-administered, computer-assisted standardized questionnaire	Intensity <i>Men</i> Never smoker 1-19 20-39 ≥40 <i>p</i> for trend <i>Women</i> Never smoker 1-19 20-39 ≥40 <i>p</i> for trend	1.0 3.5 (2.5–5.0) 6.8 (4.8–9.5) 4.8 (3.3–6.9) <0.0001 1.0 3.0 (0.8–10.6) 3.7 (1.1–12.3)* * 20+ 0.035	Age, ethnicity, education	Black tobacco only: Former smokers OR=4.2 (2.9-6.0) Current smokers OR=7.3 (4.9-10.9) Blond tobacco only: Former smokers OR=1.8 (1.0-3.2) Current smokers OR=5.8 (3.4-10.0)

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Samanic <i>et al</i> (2006) (contd)	Bladder cancer (ICD-9 188)	1219 cases (out of 1453 eligible), residents in catchment area of 18 hospitals	1271 matched hospital controls (1442 eligible). Matching on age, gender, ethnicity, hospital. Including 36% hernias, 24% fractures, and minor surgery.	Interviewer-administered, computer-assisted standardized questionnaire	Duration <i>Men</i> Never smoker <20 20-29 30-39 40-49 ≥50 <i>p</i> for trend <i>Women</i> Never smoker <20 20-29 30-39 40-49 ≥50 Years since quitting <i>Men</i> Current smoker 2-4 5-9 10-19 ≥20 <i>p</i> for trend	1.0 1.8 (1.1-3.0) 2.8 (1.8-4.1) 4.4 (3.1-6.4) 6.5 (4.6-9.3) 8.9 (6.2-12.9) <0.0001 1.0 2.0 (0.6-6.1)* 7.2 (1.4-37)** *<30 **≥30 1.0 0.6 (0.4-1.0) 1.0 (0.7-1.5) 0.7 (0.5-1.0) 0.8 (0.5-1.3) 0.24	Age, ethnicity, education	Black tobacco only: Former smokers OR=4.2 (2.9-6.0) Current smokers OR=7.3 (4.9-10.9) Blond tobacco only: Former smokers OR=1.8 (1.0-3.2) Current smokers OR=5.8 (3.4-10.0)

*specify *p*-value if no confidence interval indicated