

Table 2.19. Case-control studies of second-hand tobacco smoke and cancer of the kidney

Reference, study location and period	Organ site (ICD code)	Characteristics of cases	Characteristics of controls	Exposure assessment	Exposure categories	(# Case/# Control) Relative risk (95% CI)*	Adjustment for potential confounders	Comments
Hu <i>et al.</i> (2005) Canada	Kidneys (renal cell carcinoma (ICDO-2))	1279 cases (691 male, 588 female); 1994–1997; 8 Canadian provinces; National Enhanced Cancer Surveillance System (NECSS)	5370 population controls; Selection depended on province (i.e. RDD, health insurance plans)	Questionnaires Cancer registries	<i>Total smoker-yrs of exposure (residential plus occupational)</i> Never regularly exposed 1–39 40–92 ≥ 93 Total <i>P</i> -value for trend Never regularly exposed 1–55 56–125 ≥ 126 Total <i>P</i> -value for trend	<i>Male never smokers</i> (7/74) 1.0 (ref) (12/109) 1.2 (0.4–3.6) (26/111) 3.0 (1.1–8.2) (44/117) 3.6 (1.3–9.6) (89/411) 0.0002 <i>Female never smokers</i> (19/140) 1.0 (ref) (62/326) 1.7 (0.9–3.2) (40/230) 1.3 (0.7–2.4) (50/107) 2.9 (1.5–5.6) (171/803) 0.01	10-yr age group, province, education, BMI, alcohol use, total consumption of meat and total consumption of vegetables and fruit	

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Theis <i>et al.</i> (2008) USA	Kidney (Renal cell carcinoma)	335 cases; White and African American; ≥ 20 yrs; 2000–2004; Excluded: cancer located in transplant kidney, transitional cell tumours diagnosis, or if they did not reside in Florida or Georgia	337 controls; Matched on sex, age, location and race; random digit dialing; No history of cancer	Hospital records Florida Cancer Registry In person interviews Questionnaire	<p><i>Exposure to second-hand tobacco smoke among never-smokers^a</i></p> <p><i>Duration (years)</i></p> <p>No (35/43) 1.00 (ref)</p> <p>1–20 (38/59) 0.86 (0.46–1.60)</p> <p>> 20 (56/32) 2.18 (1.14–4.18)</p> <p>Total (129/134)</p> <p><i>P</i>-value for trend 0.010</p> <p><i>Duration (years)</i></p> <p>No (55/73) 1.00 (ref)</p> <p>1–20 (48/32) 2.09 (1.17–3.75)</p> <p>> 20 (26/29) 1.04 (0.54–2.01)</p> <p>Total (129/134)</p> <p><i>P</i>-value for trend 0.740</p> <p><i>Summary home/work exposure to second-hand tobacco smoke among never-smokers</i></p> <p>Quartiles (lifetime hrs)^a</p> <p>1st (0 – 6569) (22/41) 1.00 (ref)</p> <p>2nd (6570 – 24454) (30/38) 1.33 (0.65–2.72)</p> <p>3rd (24455 – 67707) (34/32) 1.92 (0.94–3.94)</p> <p>4th (≥ 67708) (42/23) 3.04 (1.44–6.42)</p> <p><i>P</i> = 0.020</p> <p>Quartiles (lifetime hrs) – with public exposure to second-hand tobacco smoke^b</p> <p>1st (0 – 6569) +(7/19) 1.00 (ref)</p> <p>2nd (6570 – 24454) (19/23) 1.91 (0.62–5.87)</p> <p>3rd (24455 – 67707) (27/20) 3.53 (1.19–10.47)</p> <p>4th (≥ 67708) (33/18) 4.05 (1.35–12.17)</p> <p><i>P</i> = 0.153</p>	(case/control) AOR (95% CI)	^a Age, sex, race, and BMI	
							^b Age, sex, race, BMI, and weekly alcohol consumption	