

Table 2.13. Cohort studies of second-hand tobacco smoke and cancer of the gastrointestinal tract

Reference, location, name of study	Cohort description	Exposure assessment	Organ site (ICD code)	No. of cases/deaths	Exposure categories	(No of cases/person years) Relative risk (95% CI)*	Adjustment for potential confounders	Comments
Hooker <i>et al.</i> (2008) USA	1963 cohort 20 926 men and 24 823 women with 15 yrs follow-up; 1975 cohort 21 780 men and 26 372 women with 19 yrs follow-up; ≥ 25 yrs; no prior cancer diagnosis; not missing information on age, sex, or smoking status;	Questionnaires Washington Cancer Registry	Rectal carcinoma (ICD-8 codes 154.0–154.8)	73 male and 75 female cases from 1963 cohort 79 men and 90 women cases from 1975 cohort	Cigarette smoking status Men Never smoker Exposed to second-hand tobacco smoke Never smoker Exposed to second-hand tobacco smoke Women Never smoker Exposed to second-hand tobacco smoke Never smoker Exposed to second-hand tobacco smoke	1963 Cohort (5/37 022) 1.00 (ref) (7/10 613) 5.81 (1.84–18.36) 1975 Cohort (11/60 933) 1.00 (ref) (2/11 989) 1.10 (0.24–4.97) 1963 Cohort (35/97 221) 1.00 (ref) (21/73 506) 1.03 (0.58–1.81) 1975 Cohort (41/162 130) 1.00 (ref) (13/61 194) 1.04 (0.54–1.98)	Age, education and marital status	

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Nishino <i>et al.</i> (2001) Honshu, Japan	9675 >40years old women (56.6 yrs in mean) followed-up 1984-1992 using population registries with information on passive smoking, cancer's follow-up, reproductive history (90% multiparas).	Self-completion questionnaire	Stomach, colon, rectum (ICD-9 codes 151, 153, 154)	426 spouse smoking-related cases	Husband's smoking status <i>Non-smoking</i> <i>Smoking</i> <i>Non-smoking</i> <i>Smoking</i> <i>Non-smoking</i> <i>Smoking</i>	Stomach (57/5758) 1.0 (ref) (26/3917) 0.9 (0.6-1.6) Colon (33/5758) 1.0 (ref) (15/3917) 1.3 (0.6-2.4) Rectum (17/5758) 1.0 (ref) (14/3917) 1.8 (0.8-3.9)	Adjusted: age	No increased risk of gastric cancer associated with exposure to second-hand tobacco smoke. The risk of rectal cancer was higher when smokers were present in the household.