

Table 2.13. Case–control studies on cancer of the pancreas and welding/welding fumes (web only)

Reference, location, enrolment/follow-up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Norell et al. (1986) Sweden, Stockholm-Uppsala region 1961–1979	Cases: 99; None Controls: 301; 163 hospital controls (inguinal hernia, matched on sex and age), 138 population controls (population register, matched on sex, age and parish) Exposure assessment method: Questionnaire	Pancreas	Welding materials (hospital controls)	13	1.7 (0.9–3.2)	Age	90% CIs Limitations: No information on individual occupational/environmental exposures
			Welding materials (population controls)	13	2 (0.9–4.3)		
Magnani et al. (1987) United Kingdom, 3 English counties 1959–1963; 1965–1979	Cases: 343; None Controls: 1315; None Exposure assessment method: Expert judgement	Pancreas	Welding fumes	NR	1 (0.7–1.4)	Sex, age at death, county of residence	
Siemiatycki (1991) Canada, Montreal 1979–1985	Cases: 116; Male residents of the Montreal metropolitan area with histologically confirmed incident pancreas cancer, age 35–70 Controls: 2454; study subjects with other cancers Exposure assessment method: Expert judgement	Pancreas	Arc welding fumes (any)	10	0.9 (0.5–1.5)	Age, family income, cigarette index, type of respondent	Strengths: expert assessment Limitations: cancer controls, small number of cases
			Arc welding fumes (substantial)	4	1.1 (0.4–2.5)		
			Gas welding fumes (any)	10	0.9 (0.5–1.5)		
			Gas welding fumes (substantial)	6	1.4 (0.7–2.8)		
			Welders and flame cutters (any)	1	0.4 (0.1–2)		

CI, confidence interval; NR, not reported

References

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- Siemiatycki J (1991). Risk factor for cancer in the workplace. Boca Raton (Florida): CRC Press.