

Table 2.2. Cohort studies of cadmium and prostatic cancer

Reference, country	Cohort Description	Cadmium level		Organ site	Exposure category	No. of cases	Relative risk (95% confidence interval)	Adjustment for potential confounders	Comments
		Years	Estimated levels (mg/m ³)						
<i>Nickel-cadmium battery production United Kingdom</i>									
Potts (1965)	74 men (≥ 10 years) Mortality through 1965			Prostatic cancer	Overall	3	Cannot be calculated		No referent group
Kipling & Waterhouse (1967)	248 men (≥ 1 year) Incidence through 1966			Prostatic cancer	Overall	4	6.90 [1.86–17.66]		Includes 3 deaths from Potts (1965)
Sorahan & Waterhouse (1983)	2 559 men (≥ 1 month) Mortality 1946–80			Prostatic cancer	Overall	8	1.21 [0.52–2.39]		
Sorahan & Waterhouse (1983)	2 559 men (≥ 1 month) Incidence 1950–80			Prostatic cancer	Overall > 1 year and high	15	1.36 [0.76–2.25] 4.02 [1.73–7.92]		Including 4 cases from Kipling & Waterhouse (1967)
<i>Sweden</i>									
Kjellström et al. (1979)	228 men (> 5 years) Incidence 1959–75			Prostatic cancer	Overall	2	1.67 [0.19–6.02]		
Elinder et al. (1985)	522 men (> 1 year) Mortality 1951–83			Prostatic cancer	Overall > 5 years and > 20 years latency	4	1.08 [0.29–2.77] 1.48 [0.40–3.79]		
Järup et al. (1998)	717 men (> 1 year) Mortality 1951–92 at same plant	1931–82		Prostatic cancer	Overall	11	1.22 [0.61–2.19]		No association with cumulated exposure
<i>Copper-cadmium alloy plant United Kingdom</i>									

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Holden (1980)	347 male cadmium workers (≥ 1 year)			Prostatic cancer	Exposed	1	0.63 [0.01–3.52]		
	624 vicinity workers (≥ 1 year). Mortality			Prostatic cancer	Less exposed	8	2.67 [1.15–5.26]		
Sweden									
Kjellström et al. (1979)	94 men (> 5 years) 328 controls. Mortality 1940–75			Prostatic cancer	Exposed	4	1.49 [0.40–3.81]		Data described as preliminary
					Less exposed	4	0.62 [0.17–1.60]		
Cadmium recovery plant USA									
Lemen et al. (1976)	292 men (≥ 2 years) Mortality 1940–73			Prostatic cancer	Overall	4	3.48 [0.94–8.91]		
					> 20 years' latency	4	[4.52 (1.22–11.64)]		
Thun et al. (1985)	602 men (≥ 6 years) Mortality 1940–78			Prostatic cancer	> 2 years' employment and > 20 years' latency	3	2.13 (0.44–6.22)		
Cadmium processing plants United Kingdom									
Kazantzis et al. (1992) Kazantzis & Blanks (1992)	6 910 men (> 1 year) Mortality 1943–89			Prostatic cancer	Overall	37	0.75 (0.53–1.03)		Regional adjustment
					Always low	36	0.85 (0.60–1.18)		
					Ever medium	0	0 (0.0–0.59)		
					Ever high	1	0.97 (0.01–5.40)		

^a Approximate 95% confidence intervals calculated by the Working Group are given in square brackets