

Table 2.4 Cohort studies on soft-tissue sarcoma in populations exposed to dioxins in industrial cohorts and in studies on industrial accidents

Reference, location, name of study	Cohort description	Exposure assessment	Organ site (ICD code)	Exposure categories	No. of cases/deaths	Relative risk (95% CI)*	Adjustment for potential confounders	Comments
Steenland <i>et al.</i> (1999, 2001), USA	Cohort of 5132 workers (men) in 12 plants, producing chemicals contaminated by TCDD; 3538 workers with estimated TCDD exposure; 608 workers subcohort with chloracne; mortality follow-up 1948?-1993; vital status >99%	Company questionnaires and TCDD contamination, individual occupational history; chloracne 608 workers; job-exposure matrix 3538 workers; 177 TCDD serum	STS (171)	All Chloracne subcohort	4 3	2.3(0.6-5.9) 11.3(2.3-33)		
Kogevinas <i>et al.</i> (1997), International	21863 in 36 cohort from 12 countries; Mortality 20851 men, 1012 women	2,3,7,8-TCDD or higher chlorinated PCDDs versus not exposed to 2,3,7,8-TCDD or higher chlorinated PCDDs or no PCDD exposure	STS (171)	Exposed to 2,3,7,8-TCDD and higher Exposed to lower or no PCDD	6 2	2.0(0.8-4.4) 1.4(0.2-4.9)		Combined PCDD-exposed workers (production and spraying) from 36 cohorts with varied follow-up from 1939 to 1992
Kogevinas <i>et al.</i> (1995), International	Nested case-control study within the IARC cohort reported by Saracci <i>et al.</i> (1991); 11 STS cases and 55 healthy controls; men and women	Exposure to 21 chemicals including major phenoxy herbicides, PCDDs, raw materials and other process chemicals, expert assessment	STS (171)	Any phenoxy herbicide Any PCDD or PCDF 2,3,7,8-TCDD TCDD Non-exposed Low Medium High	10/30 9/24 5/13 6/42 1/4 1/4 3/5	10.3(1.2-90.6) 5.6(1.1-27.7) 5.2(0.9-31.9) 1.0 2.8(0.05-54.8) 6.6(0.08-540) 10.6(0.6-671)		p-value for trend = 0.04