

Dieldrin

Prospective (nested case-control studies)

Blood measures

		Study design			Unadjusted results		Adjusted results			Typical Dieldrin levels		Comments
Study (reference)	Country	No of Cases	No of Controls	Comparison for OR	OR/RR (95% CI)	Trend test (p)	OR/RR (95% CI)	Adjusted for	Trend test (p)	Cases	Controls	
Dorgan et al (1999) Cancer causes and control 10, 1-11 Nested case-control study	USA	105	207	Highest compared to the lowest quartile			Relative Risk 0.6 (0.3-1.4)	Matched by age, benign breast disease diagnosis during prior 2 years, month and year of blood collection	0.26	Not reported	Not reported	Study also reports RRs for β -HCH, p,p'-DDT, total DDT, p,p'-DDE, two PCB congener and total PCBs (27 congeners)
Hoyer et al. (1998) The Lancet 352, 1816-1820	Denmark	237	469	Highest compared to lowest quartile	2.25 (0.32-3.84)	0.003	2.05 (1.17-3.57)	Age, number of full term pregnancies and weight	0.01	Not reported		Cohort from the Copenhagen City Heart Study (CCHS). Cohort also used in other Hoyer studies (2000, 2001, 2002) Study also reports ORs for β -HCH, p,p'-DDT, total DDT, p, p' Dieldrin and total PCBs (28 congeners)

Dieldrin

Retrospective (case-control studies)

Blood measures

		Study design			Unadjusted results		Adjusted results			Typical Dieldrin levels		Comments
Study (reference)	Country	No of Cases	No of Controls	Comparison for OR	OR/RR (95% CI)	Trend test (p)	OR/RR (95% CI)	Adjusted for	Trend test (p)	Cases	Controls	
Gammon et al. (2002) Cancer Epidemiology , Biomarkers & Prevention, 11, 686-697 Population-based case-control study 646 cases, 428 controls		646	427	Upper quintile compared to lowest quintile using data from 181 cases and 148 controls			Multivariate-adjusted odds ratio (OR) 1.37 (0.69-2.72)		0.05	Geometric means (serum) 20.40ng/g lipid	Geometric means (serum) 21.29ng/g lipid	No increase in risk due to Breastfeeding status, weight, postmenopausal status, invasive <i>in situ</i> disease, hormone receptor positive tumour No significant difference between cases and controls for levels of Dieldrin Study also reported OR's for DDT, DDE and four PCB congeners

Dieldrin
Other studies
Blood measures

		Study design			Unadjusted results		Adjusted results			Typical Dieldrin levels		Comments
Study (reference)	Country	No of Cases	No of Controls	Comparison for OR	OR/RR (95% CI)	Trend test (p)	OR/RR (95% CI)	Adjusted for	Trend test (p)	Cases	Controls	
Høyer et al. (2002) Breast Cancer Research and Treatment, 71, 59-65 Nested case control study	Denmark	240 162 (p53 mutation analysis)	477	Highest compared to lowest quartile			Odds Ratio P53 mutation 3.53 (0.79-15.79) 36 cases, 72 controls)	Age, parity, body weight, HRT	0.12	Serum levels of organochlorines were not reported		Cohort from the Copenhagen City Heart Study (CCHS). Cohort also used in other Hoyer studies (1998, 2000, 2001) Limited details of analysis of organochlorines but study also reports ORs for p,p'-DDT, Total DDT, p,p' DDE and total PCB (number of congeners not reported)
							Wild type p53 1.20 (0.56-2.58) 123 cases, 244 controls)		0.60			