

Table 2.13.1: Cohort studies on relationship of endocrine disruptors with allergy

Region and subjects	Number of subjects	Follow-up period	Compound	Confounders considered	Odds ratio
Weisglas-Kuperus, 2000 Holland	193	Up to 42 Months of age for infants born in 1990-92	PCB-118 PCB-128 PCB-153 PCB-180 (maternal blood, cord blood, breast milk, infant blood; at the 42th month) Dioxins (breast milk only)	Sex, initial feeding (breast or artificial), period of breast feeding, first child or not, parents' education, parents' smoking habit, parents' atopic disorders, nursery centers	Shortness of breath with wheeze ( $\Sigma$ PCB (maternal blood), OR = 0.44, P = 0.05) Recurrent middle-ear infections ( $\Sigma$ PCB (infant's blood), OR = 3.06, P = 0.02) Chicken pox ( $\Sigma$ PCB (infant's blood), OR = 7.63, P = 0.03) Asthma/bronchitis ( $\Sigma$ PCB (infant's blood), OR = 0.01, P = 0.01) Recurrent middle-ear infections (mono-ortho PCB TEQ (breast milk), OR = 1.17, P=0.01; planer PCB TEQ (breast milk), OR = 1.10, p=0.04)
Tusscher, 2003 Holland	27	8 Years from 1994	dioxins (except dioxin-like PCBs), breast milk	None	Perinatal dioxin exposure associated with decrease in allergy Dioxin exposure after birth also associated with decrease in allergy
Weisglas-Kuperus, 2003 Holland	167	Up to 7 Years of age for infants born in 1990-92	PCB-118 PCB-128 PCB-153 PCB-180 (maternal blood, cord blood, breast milk, infant blood; at the 42th month) Dioxins (breast milk only)	Sex, initial feeding (breast or artificial), period of breast feeding, first child or not, parents' education, parents' smoking habit, parents' atopic disorders, nursery centers	Chicken pox ( $\Sigma$ PCB (maternal blood), OR = 0.53, P = 0.03; $\Sigma$ PCB (cord blood), OR = 0.44, P = 0.02) Shortness of breath with wheeze ( $\Sigma$ PCB (maternal blood), OR = 0.59, P = 0.04) Recurrent middle-ear infections ( $\Sigma$ PCB (breast milk), OR in breast-feeding period = 1.19, P=0.04)

Table 2.13.2: Case-control study on relationship of endocrine disruptors with allergy

Region and subjects	Case	Control	Compound	Odds ratio
Guo 1999 Taiwan	795 Taiwanese yusho	693	PCB, PCDF	Skin allergy Men OR 2.1 (95%CI 1.3-3.4) Women OR 2.6 (95%CI 1.8-4.0)

Table 2.13.3: Synchronic study on relationship of endocrine disruptors with allergy

Region and subjects	Number of subjects	Compound	Confounders considered	Odds ratio
Reichrtova, 1999 Slovakia	120	Chlorinated benzenes, organic pesticides, PCBs (28, 52, 101, 118, 138, 153, 180) (in placenta)	None	Cord blood IgE with p,p'-DDE (r=0.3294, P=0.01) Cord blood IgE with PCB-118 (r=0.3824, P=0.006)