

Table S1. Multivariable linear regression results for concentrations (ng/g) of specific PCBs in Northern California Childhood Leukaemia Study residences (2001-2006) with detectable levels of PCB.

Determinant	Proportional increase (95% C.I.)			
	PCB-118, N = 133	PCB-138, N = 221	PCB-153, N = 216	PCB-180, N = 161
Residence built prior to 1980	1.1 (0.7, 1.6)	1.3 (1.0, 1.8)	1.4 (1.0, 1.9)	1.2 (0.8, 1.7)
Replaced carpet within the past 5 years	1.0 (0.7, 1.3)	0.9 (0.7, 1.2)	1.0 (0.8, 1.3)	1.1 (0.8, 1.5)
Replaced flooring in home	1.0 (0.6, 1.5)	1.0 (0.7, 1.5)	1.1 (0.7, 1.5)	0.9 (0.6, 1.3)
Replaced roof in home	1.1 (0.7, 2.0)	0.8 (0.5, 1.3)	0.7 (0.5, 1.2)	0.8 (0.5, 1.4)
Remodeled sampled room	0.8 (0.6, 1.2)	1.0 (0.8, 1.3)	1.0 (0.8, 1.4)	1.3 (1.0, 1.8)
Regularly vacuum at least once a week	1.5 (1.1, 2.1)*	1.1 (0.8, 1.5)	0.9 (0.7, 1.2)	0.8 (0.6, 1.1)
Population density ^a , persons/km ²	1.1 (1.0, 1.3)*	1.0 (0.9, 1.0)	1.0 (1.0, 1.1)	1.0 (0.9, 1.1)
Resident employed as electrician ^b	1.5 (0.6, 3.9)	1.7 (0.7, 4.0)	1.4 (0.6, 3.1)	1.5 (0.6, 3.5)
Resident employed in industrial operation ^c	1.4 (0.7, 2.8)	0.9 (0.5, 1.3)	0.9 (0.5, 1.6)	0.8 (0.5, 1.6)
Residents do not remove their shoes	1.1 (0.8, 1.6)	1.2 (0.9, 1.6)	1.1 (0.8, 1.5)	0.8 (0.6, 1.1)
Resident has cat or dog in home	0.9 (0.6, 1.3)	0.8 (0.6, 1.1)	0.9 (0.6, 1.2)	1.0 (0.8, 1.4)

* Indicates linear regression coefficient *p*-value < 0.05
Model *r*² was 0.11, 0.05, 0.04, and 0.06 for PCBs 118, 138, 153, and 180, respectively
^a Proportional increase per each increase in population density of 2000 persons/km²
^b Includes any resident employed as an electrician, lineman, or cable puller.
^c Includes any resident employed in manufacturing, assembly, or industrial operation

Table S2. Percentage of residences in the Northern California Childhood Leukaemia Study (2001-2006) with detectable concentrations of PCB, by potential PCB determinants.

Determinants	N ^a	Residences with PCB detected, %					
		PCB-105	PCB-118	PCB-138	PCB-153	PCB-170	PCB-180
Replaced carpet within the past 5 years	233	10	31	52	49	9.4	35
Carpet older than 5 years	175	16	34	57	58	9.1	45
Replaced flooring in home	67	10	40	66*	66*	9.0	48
Did not replace flooring	347	13	31	51*	50*	9.2	37
Replaced roof in home	38	7.9	39	61	58	7.9	45
Did not replace roof	376	13	31	53	52	9.3	38
Remodeled room from which dust was sampled prior to dust collection	147	12	33	54	54	11	38
No remodeling in sampled room	260	12	32	53	51	8.1	39
Regularly vacuum at least once a week	316	12	30*	52	49*	8.9	37
Vacuum less than once a week	89	15	43*	58	66*	10	46
Population density ≥2000 persons/km ²	186	13	34	59	54	11	44
Population density <2000 persons/km ²	223	12	31	50	50	7.6	35
Resident employed as electrician ^b	12	25	33	42	50	17	42
No electricians in the home	402	12	32	54	52	9.0	39
Resident employed in industrial operation ^c	25	12	32	76*	56	16	40
No industrial employees in the home	389	12	32	52*	52	8.7	39
Residents do not remove their shoes	276	13	34	53	52	9.1	41
Residents typically remove their shoes	136	10	26	54	52	9.6	34
Resident has cat or dog in home	155	7.7*	30	49	48	8.4	39
No pets in the home	259	15*	33	57	55	9.7	39

* Indicates that the proportion of residences with PCB detected in the two comparison groups are significantly different using the two-proportion z-test (p -value < 0.05)

^a Includes 415 residences; missing data is due to incomplete questionnaire responses.

^b Includes any resident employed as an electrician, lineman, or cable puller.

^c Includes any resident employed in manufacturing, assembly, or industrial operations