

Table S1: Dataset of environmental risk factor analysis

QID	Environmental factor		n (%) in CA	p-values	OR	CI
E1	Location of residence in the suburbs (according to ZIPcodes)	Yes (n= 346)	30 (8.67)	0.0236	0.64	0.43 – 0.93
		No (n= 3464)	448 (12.93)			
E2	Living in a house with prefabricated concrete walls	Yes (n= 1013)	135 (13.33)	0.4282	1.09	0.88 - 1.35
		No (n= 2823)	349 (12.36)			
E3	Living in a house with brick walls	Yes (n= 1579)	191 (12.10)	0.4165	0.92	0.76 - 1.12
		No (n= 2257)	293 (12.98)			
E4	Living in a detached house surrounded by a garden	Yes (n= 1570)	191 (12.17)	0.4833	0.93	0.77 - 1.13
		No (n= 2266)	293 (12.93)			
E5	Living in a log cabin	Yes (n= 6)	2 (33.33)	0.1514	3.47	0.48 - 17.85
		No (n= 3830)	482 (12.58)			
E6	Wall-to-wall carpet in the bedroom	Yes (n= 611)	88 (14.40)	0.1479	1.20	0.93 - 1.53
		No (n= 3225)	396 (12.28)			
E7	Linoleum in the bedroom	Yes (n= 76)	13 (17.11)	0.2367	1.44	0.75 - 2.55
		No (n= 3760)	471 (12.53)			
E8	Parquet in the bedroom	Yes (n= 3374)	426 (12.63)	0.9652	1.01	0.76 - 1.36
		No (n= 462)	58 (12.55)			
E9	Tapestry in the bedroom	Yes (n= 183)	24 (13.11)	0.8355	1.05	0.66 - 1.60
		No (n= 3653)	460 (12.59)			
E10	Visible mould in the bedroom	Yes (n= 122)	28 (22.95)	0.0006	2.13	1.36 – 3.24
		No (n= 3714)	456 (12.28)			
E11	Plant in the bedroom	Yes (n= 1543)	171 (11.08)	0.0191	0.79	0.65 – 0.96
		No (n= 2293)	313 (13.65)			
E12	Feather bedding when sleeping	Yes (n= 546)	64 (11.72)	0.4964	0.91	0.68 – 1.19
		No (n= 3290)	420 (12.77)			
E13	Heating with wood or coal burning stove	Yes (n= 97)	8 (8.25)	0.1935	0.62	0.27 - 1.20
		No (n= 3739)	476 (12.73)			
E14	Heating with fuel oil stove	Yes (n= 17)	3 (17.65)	0.5342	1.49	0.34 - 4.58
		No (n= 3819)	481 (12.59)			
E15	Central heating	Yes (n= 3274)	418 (12.77)	0.4999	1.10	0.84 - 1.46
		No (n= 562)	66 (11.74)			

E16	Heating with wood or coal burning stove during the first year of the child's life	Yes (n= 120)	20 (16.67)	0.1768	1.40	0.84 - 2.24
		No (n= 3716)	464 (12.49)			
E17	Heating with fuel oil stove during the first year of the child's life	Yes (n= 16)	2 (12.50)	0.9887	0.99	0.15 - 3.56
		No (n= 3820)	482 (12.62)			
E18	Central heating during the first year of the child's life	Yes (n= 3282)	414 (12.61)	0.9890	0.10	0.77 - 1.32
		No (n= 554)	70 (12.64)			
E19	Frequent use of an air conditioner (1 – 2 hours / day)	Yes (n= 854)	105 (12.30)	0.7478	0.96	0.76 - 1.21
		No (n= 2982)	379 (12.71)			
E20	Heavy-vehicle traffic frequent or constant (in 500 m)	Yes (n= 2483)	337 (13.57)	0.0161	1.29	1.05- 1.59
		No (n= 1353)	147 (10.86)			
E21	Living in a weedy area (in 500 m)	Yes (n= 1666)	245 (14.71)	0.0007	1.39	1.15 - 1.69
		No (n= 2170)	239 (11.01)			
E22	Living not far from an air-polluting factory or mine (in 1 km)	Yes (n= 689)	106 (15.38)	0.0161	1.33	1.05 - 1.68
		No (n= 3147)	378 (12.01)			
E23	Keeping furry animals or birds at home	Yes (n= 1373)	178 (12.96)	0.6291	1.05	0.86 – 1.28
		No (n= 2463)	306 (12.42)			
E24	Dogs at home	Yes (n= 621)	101 (16.26)	0.0029	1.44	1.13 – 1.82
		No (n= 3215)	383 (11.91)			
E25	Cats at home	Yes (n= 416)	48 (11.54)	0.4831	0.89	0.64 – 1.21
		No (n= 3420)	436 (12.75)			
E26	Rodents at home	Yes (n= 481)	47 (9.77)	0.0454	0.72	0.52 – 0.98
		No (n= 3355)	437 (13.03)			
E27	Birds at home	Yes (n= 111)	15 (13.51)	0.7730	1.08	0.60 – 1.83
		No (n= 3725)	469 (12.59)			
E28	Furry animals or birds at home in the first year of the child's life	Yes (n= 683)	94 (13.76)	0.3204	1.13	0.88 – 1.43
		No (n= 3153)	390 (12.37)			
E29	Dogs at home in the first year of the child's life	Yes (n= 429)	61 (14.22)	0.2897	1.17	0.87 – 1.55
		No (n= 3407)	423 (12.42)			
E30	Cats at home in the first year of the child's life	Yes (n= 240)	33 (13.75)	0.5855	1.11	0.75 - 1.60
		No (n= 3596)	451 (12.54)			
E31	Rodents at home in the first year of the child's life	Yes (n= 117)	15 (12.82)	0.9464	1.02	0.56 – 1.71
		No (n= 3719)	469 (12.61)			

E32	Birds at home in the first year of the child's life	Yes (n= 42)	9 (21.43)	0.0892	1.91	0.85 – 3.84
		No (n= 3794)	475 (12.52)			
E33	Smoking at home in the first year of the child's life	Yes (n= 325)	59 (18.15)	0.0018	1.61	1.18 – 2.16
		No (n= 3511)	425 (12.10)			
E34	Smoking at home	Yes (n= 370)	68 (18.38)	0.0005	1.65	1.24 – 2.18
		No (n= 3466)	416 (12.00)			

QID: question ID, CA: cumulative asthma, OR: odds ratio, CI: confidence interval.