

eAppendix**eTable 1. Description of reported doctor lower respiratory tract infections (LRTI) in the Sabadell birth cohort (N=64 immigrants)**

	n	(%)
LRTI		
Between birth and 6 months		
Doctor diagnosis chest infection		
No	57	(89.06)
Yes	7	(10.94)
Bronchiolitis	3	(4.69)
Bronchitis	3	(4.69)
Pneumonia	0	(0.00)
Between 6 and 14 months		
Doctor diagnosis chest infection		
No	35	(64.81)
Yes	19	(35.19)
Bronchiolitis	0	(0.00)
Bronchitis	15	(27.78)
Pneumonia	0	(0.00)
LRTI (from birth to 14 months)		
Never	34	(62.96)
At 6 or 14 months	16	(29.63)
At 6 and 14 months	4	(7.41)

eTable 2. Organochlorine levels (percentiles if detectable levels) at first trimestre of pregnancy in the Sabadell birth cohort (N=64 immigrants)

(ng/g lipid)	% detectable	Immigrant		
		P ₂₅	P ₅₀	P ₇₅
HCB	37.50	16.53	22.21	35.68
bHCH	61.90	24.98	42.91	80.30
ppDDE	100.00	100.80	282.05	635.92
ppDDT	0.00	-	-	-
PCBs†	44.44	46.10	73.03	111.06
PCB28	0.00	-	-	-
PCB118	3.13	36.90	64.07	91.23
PCB153	44.44	19.66	33.07	47.57
PCB138	34.38	17.47	25.91	35.61
PCB180	30.16	16.04	21.38	43.19

Detection Limit was 0.071 ng/ml serum

† PCBs were the sum of PCB118, PCB153, PCB138 and PCB180

eTable 3. Adjusted associations (relative risk (RR) and 95% confidence interval (95% C.I.)) between pp'DDE (in tertiles and continuous) and PCBs and any lower respiratory tract infections (LRTI): uni- and two-pollutant models.

	At 6 months			At 14 months			Recurrent£		
	n	RR	(95% C.I.)	n	RR	(95% C.I.)	n	RR	(95% C.I.)
Unipollutant									
pp'DDE (ng/g lipid)									
< 120	1/20	1.00		5/16	1.00		5/16	1.00	
120 - 500	3/22	2.29	(0.16 - 137.49)	5/17	1.26	(0.45 - 3.47)	5/17	1.23	(0.44 - 3.42)
> 500	2/20	1.92	(0.09 - 122.94)	9/20	1.69	(0.74 - 3.88)	10/20	1.86	(0.83 - 4.16)
per each (log) ng/g lipid‡		1.30	(0.75 - 2.24)		1.08	(0.85 - 1.38)		1.11	(0.81 - 1.52)
Former smoker after getting pregnant		0.95	(0.02 - 13.16)		2.46*	(1.24 - 4.90)		2.31*	(1.18 - 4.52)
Smoker entire pregnancy		2.33	(0.04 - 35.45)		0.80	(0.12 - 5.50)		0.75	(0.10 - 5.35)
Gender, male		0.58	(0.07 - 4.65)		1.30	(0.61 - 2.77)		1.40	(0.66 - 2.97)
Multipollutant									
pp'DDE (ng/g lipid)									
< 120		1.00			1.00			1.00	
120 - 500		2.08	(0.15 - 120.05)		1.30	(0.48 - 3.53)		1.26	(0.46 - 3.47)
> 500		1.82	(0.09 - 113.76)		1.78	(0.75 - 4.23)		1.93	(0.84 - 4.43)
per each (log) ng/g lipid‡		1.29	(0.75 - 2.23)		1.07	(0.86 - 1.34)		1.12¶	(0.90 - 1.40)
ΣPCBs > LOD		1.26	(0.12 - 12.12)		1.35	(0.67 - 2.72)		1.23	(0.63 - 2.39)

£ LRTI at 6 and/or 14 months

‡ Included as continuous variable in multivariate model alternatively to the DDE in tertiles

¶ non-linear association

* p-value < 0.5; † p-value < 0.1

|| median unbiased estimates (MLE) obtained using exact logistic regression