

Supplemental Material

**Asthma in Inner-City Children at 5-11 Years of Age and Prenatal
Exposure to Phthalates: The Columbia Center for Children's
Environmental Health Cohort**

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Table S1. Characteristics of study subjects from the Columbia Center for Children’s Environmental Health longitudinal birth cohort included and excluded from the current analyses.

Characteristics	Included (n=300)	Excluded (n=397)	P-value
Maternal age (years)^a	25.3 ± 4.8	25.0 ± 5.0 (n=397)	P=0.32 ^d
Maternal asthma history	76 (25.3%)	67 (20.2%)	P=0.12 ^e
Missing	0	65	
Maternal demoralization^{a,b}	1.1 ± 0.65 (n=300)	1.2 ± 0.6 (n=353)	P=0.13 ^d
Missing	0	24	
Ethnicity			
African American	107 (35.7%)	128 (32.2%)	P=0.34 ^e
Dominican	193 (64.3%)	269 (67.8%)	
Maternal education			
< High school	107 (35.7%)	134 (34.9%)	P=0.83 ^e
≥ High school	193 (64.3%)	250 (65.1%)	
Missing	0	13	
Marital status			
Never married	204 (68.0%)	248 (63.4%)	P=0.21 ^e
Ever married ^c	96 (32.0%)	143 (36.6%)	
Missing	0	6	
Household income			
< 10,000	122 (44.2%)	165 (43.9%)	P=0.85 ^e
≥ 10,000	154 (55.8%)	202 (55.0)	
Missing	24	21	
Sex of the child (% female)	163/300 (54.3%)	196/397 (49.4%)	P=0.19 ^e

^aMean ± standard deviation. ^bMean of 27 items each on 5 point Likert scale (0-4) (Dohrenwend et al. 1978). ^cIncludes women living with the same partner for greater than 7 years. ^dGroup T-test. ^eChi-square.

Table S2. Associations [relative risk (95% confidence intervals)] between (ln)postnatal phthalate metabolite concentrations and children diagnosed with current asthma compared to non-asthmatics.

Metabolite	Child age 3 (n=73 cases, 99 controls)	Child age 5 (n=81cases, 112 controls)	Child age 7 (n=59 cases, 57 controls)
MEHHP	1.02 (0.85, 1.22)	1.07 (0.92, 1.24)	1.06 (0.91, 1.25)
MEP	1.10 (0.95, 1.26)	1.00 (0.88, 1.13)	0.90 (0.77, 1.05)
MnBP	1.01 (0.82, 1.25)	0.97 (0.83, 1.15)	0.97 (0.81, 1.17)
MBzP	0.97 (0.86, 1.11)	0.98 (0.86, 1.11)	0.96 (0.84, 1.10)

Relative risks were estimated using Poisson regression with robust standard error estimation using the generalized estimating equations controlling for maternal asthma, maternal prenatal demoralization, household tobacco smoke exposures, maternal urinary BPA, maternal urinary specific gravity, child age and child urinary specific gravity at each age point