Additional file 2

Table S2:Multivariate model between As, Mn, and Pb and BSID-III scores at 20-40 months

		Cogn	itive	Fine Motor					
	Sirajdikhar	Sirajdikhan n=265 Pabna n=316			Sirajdikhai	n n=265	Pabna n=316		
Exposures	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	
Ln Water As	0.004 (0.02)	0.85	-0.05 (0.03)	0.08	-0.04 (0.03)	0.1	0.02 (0.03)	0.56	
Ln Water Mn	0.03 (0.02)	0.23	-0.09 (0.07)	0.18	-0.04 (0.03)	0.19	0.80 (0.38)	0.03	
Ln Water Mn2	-	-	-	-	-	-	-0.07 (0.03)	0.02	
Ln Blood Pb	-0.20 (0.08)	0.02	0.05 (0.12)	0.64	0.06 (0.10)	0.54	-0.07 (0.11)	0.54	

Note: All models are adjusted for maternal age, maternal education, child's gender, exposure to second-hand smoke, HOME score, maternal Raven score, and child hematocrit levels. Models use age-adjusted BSID-III scores. Note: All exposures are included in the models simultaneously and missing values were imputed for HOME scores, maternal Raven scores, and water concentrations.

Table S3:Multivariate model between As, Mn, and Pb and BSID-III scores at 20-40 months

		Cogr	nitive		Fine Motor					
	Sirajdikhan n=380		Pabna n=365		Sirajdikhai	n=380	Pabna n=364			
Exposures	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	p-value β (SE)			
Ln Water As	-0.02 (0.02)	0.30	-0.03 (0.03)	0.28	-0.03 (0.02)	0.11	0.04 (0.02)	0.14		
Ln Water Mn	0.02 (0.02)	0.30	-0.08 (0.05)	0.11	-0.01 (0.02)	0.77	-0.15 (0.05)	0.002		

Note: All models are adjusted for maternal age, maternal education, child's gender, exposure to second-hand smoke, HOME score, and maternal Raven score. Models use age-adjusted BSID-III scores.

Note: All exposures are included in the models simultaneously

Table S4:Multivariate model between As, Mn, and Pb and Bayley z-scores at 20-40 months

		Cog	nitive		Fine Motor					
	Sirajdikhai	rajdikhan n=409 Pabna n=403			Sirajdikhar	n n=409	Pabna n=402			
Exposures	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value		
Ln Water As	-0.02 (0.02)	0.43	-0.03 (0.03)	0.32	-0.03 (0.02)	0.10	0.03 (0.02)	0.24		
Ln Water Mn	0.02 (0.02)	0.25	-0.08 (0.05)	0.14	-0.01 (0.02)	0.65	-0.15 (0.05)	0.002		

Note: All models are adjusted for maternal age, maternal education, child's gender, exposure to second-hand smoke, HOME score, and maternal Raven score. Models use age-adjusted BSID-III scores.

Note: All exposures are included in the models simultaneously, and missing values were imputed for HOME scores, maternal Raven scores, and water concentrations.

Table S5:Multivariate model between As and Mn (early pregnancy) and Pb exposures and Bayley z-scores at 20-40 months

		Cogr	nitive		Fine Motor				
	Sirajdikhar	n=261 Pabna n=		=304	Sirajdikhan n=261		Pabna n=303		
Exposures	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	
Ln Water As 1 st trimester	0.009 (0.03)	0.78	-0.09 (0.03)	0.006	0.07 (0.04)	0.10	0.007 (0.03)	0.81	
Ln Water Mn 1 st trimester	0.008 (0.02)	0.67	-0.09 (0.06)	0.13	0.004 (0.02)	0.85	-0.10 (0.05)	0.08	
Ln Water Mn2	-	-	-	-	-	-	-	-	
Ln Blood Pb	-0.18 (0.08)	0.03	0.03 (0.12)	0.8	0.02 (0.10)	0.85	-0.11 (0.11)	0.32	

Note: All models are adjusted for maternal age, maternal education, child's gender, exposure to second-hand smoke, HOME score, maternal Raven score, and child hematocrit levels. Models use age-adjusted BSID-III scores.

Note: All exposures are included in the models simultaneously

Table S6:Multivariate model between As, Mn (1 month post-partum) and Pb and Bayley z-scores at 20-40 months

		Cogr	nitive		Fine Motor				
	Sirajdikhan n=261		Pabna n=296		Sirajdikhan n=261		Pabna n=295		
Exposures	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	β (SE)	p-value	
Ln Water As 1 month post-partum	0.01 (0.04)	0.72	-0.05 (0.03)	0.17	0.02 (0.05)	0.69	0.03 (0.03)	0.38	
Ln Water Mn 1 month post-partum	-0.06 (0.03)	0.02	-0.11 (0.07)	0.11	-0.03 (0.03)	0.29	-0.05 (0.07)	0.41	
Ln Water Mn2	-	-	-	-	-	-	-	-	
Ln Blood Pb	-0.17 (0.08)	0.04	0.05 (0.12)	0.70	0.03 (0.10)	0.77	-0.09 (0.11)	0.42	

Note: All models are adjusted for maternal age, maternal education, child's gender, exposure to second-hand smoke, HOME score, maternal Raven score, and child hematocrit levels. Models use age-adjusted BSID-III scores.

Note: All exposures are included in the models simultaneously