

Supplemental Material

Prenatal Exposure to Organophosphate Pesticides and IQ in 7-Year Old Children

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Supplemental Material, Table 1: Change in cognitive scores for a 10-fold increase in prenatal creatinine-adjusted DAP, DM, and DE concentrations, CHAMACOS

Cognitive scores	N	DAP		DM		DE	
		β (95% CI)	p	β (95% CI)	p	β (95% CI)	p
WISC-IV scales							
Working Memory	329	-3.8 (-7.1, -0.5)	.03	-3.5 (-6.5, -0.6)	.02	-0.1 (-3.1, 3.0)	.97
Processing Speed	329	-3.6 (-6.9, -0.4)	.03	-2.0 (-4.9, 0.9)	.19	-4.4 (-7.3, -1.5)	.01
Verbal Comprehension	298	-4.8 (-8.0, -1.6)	.01	-4.3 (-7.2, -1.4)	.01	-2.1 (-5.1, 0.9)	.17
Perceptual Reasoning	298	-4.8 (-8.3, -0.7)	.02	-3.6 (-7.0, -0.2)	.04	-2.9 (-6.4, 0.6)	.10
Full Scale IQ	297	-5.3 (-8.6, -2.0)	.01	-4.3 (-7.3, -1.3)	.01	-3.1 (-6.1, -0.0)	.05

Estimates were adjusted for HOME at 6 months, maternal education and intelligence. Verbal Comprehension and Full Scale IQ were also adjusted for language of assessment.

Supplemental Material, Table 2: Change in cognitive scores for a 10-fold increase in prenatal creatinine-adjusted DAP concentrations, restricting the analytical sample to children assessed in Spanish, CHAMACOS

Cognitive scores	N	DAP	
		β (95% CI)	p
WISC-IV scales			
Working Memory	221	-4.4 (-8.5, -0.3)	.04
Processing Speed	221	-4.3 (-8.3, -0.3)	.04
Verbal Comprehension	198	-5.3 (-9.7, -0.9)	.02
Perceptual Reasoning	198	-5.6 (-10.4, -0.7)	.02
Full Scale IQ	197	-6.2 (-10.5, -1.8)	.01

Estimates were adjusted for HOME at 6 months, maternal education and intelligence.

Supplemental Material, Table 3: Change in cognitive scores for a 10-fold increase in DAP concentrations (nmol/L) measured prenatally and postnatally, CHAMACOS

Cognitive scores	N	Prenatal DAP		Postnatal DAP		p-value for slopes comparison
		β	(95% CI)	β	(95% CI)	
WISC-IV scales						
Working Memory	278	-3.7	(-7.3, -0.1)	0.5	(-3.2, 4.2)	.10
Processing Speed	278	-4.4	(-7.9, -0.9)	-1.4	(-5.0, 2.3)	.24
Verbal Comprehension	308	-5.4	(-9.0, -1.9)	1.3	(-2.4, 4.9)	.01
Perceptual Reasoning	308	-3.5	(-7.7, 0.6)	0.2	(-4.1, 4.5)	.19
Full Scale IQ	277	-5.5	(-9.2, -1.8)	0.0	(-3.8, 3.9)	.03

Estimates were adjusted for HOME score at 6 months, maternal education and intelligence. Verbal Comprehension and Full Scale IQ were also adjusted for language of assessment.