

Table 2. Summary of studies estimating association of postnatal PbB with Cognitive Function

Draft Final for ACCLPP Review

Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
	(<= 2 years)	(>= 4 years)												
Kosovo (37, L ,332)	24 months	# 4 years	21.8 (GM)	not stated	-5 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Port Pirie (23, L ,537)	24 months	# 4 years	21.3 (GM)	-12.3 (log10)^	-5.3 (log10)^	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight, Gestation	Marital Status, Maternal Age	unspecified		Maternal		Maternal Medication/Drug Use, Postnatal Factors, Birth Order, Birth Type, Birth Problems, Child's Sex, Residence in Regions, Child's Medical History, Mother's work site
Port Pirie (23, L ,537)	15 months	# 4 years	20.9 (GM)	-6.8 (log10)^	-1.7 (log10)	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight, Gestation	Marital Status, Maternal Age	unspecified		Maternal		Maternal Medication/Drug Use, Postnatal Factors, Birth Order, Birth Type, Birth Problems, Child's Sex, Residence in Regions, Child's Medical History, Mother's work site
Port Pirie (35, L ,367)	15 months	11-13 years	20.9 (GM)	-6.8 (ln)^	-2 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Port Pirie (4, L ,494)	Lifetime avg. 2 years	7 years	16.6-20.5 (means of 2nd & 3rd quartiles) (GM)	not stated	-5.1 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.	Parental smoking	Birth Weight	Family Structure, Maternal Age	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex

* L=Longitudinal cohort, X=Cross-sectional.

** (ln)/(log10) = Original coefficient reported in log scale.

= McCarthy GCI, all unmarked are full-scale IQ measures.

^ statistically significant (p < 0.05)

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Kosovo (37, L ,332)	18 months	# 4 years	20.0 (GM)	not stated	-2.3 (log10)	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Port Pirie (4, L ,494)	Lifetime avg. 15 months	7 years	14.3-18.0 (means of 2nd & 3rd quartiles) (GM)	not stated	-4.4 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.	Parental smoking	Birth Weight	Family Structure, Maternal Age	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex
Kosovo (37, L ,332)	12 months	# 4 years	17.2 (GM)	not stated	-3.6 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Cincinnati (13, L ,253)	Mean 15-24 months	6.5 years	17.1	-1.3	-0.2		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
Cleveland (16, L ,149)	2 years	4 years 10 months	16.70	r=-.38^	not stated	Mat. Edu.	Cigarettes per day	Birth Weight, Gestation	Authoritarian Family Ideology	total (mean of 1, 2, 3, and 4 yrs 10 mos)	Child	Maternal		Child Stress, Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, History Alcohol Abuse
Sydney (12, L ,318)	Mean 18,24 months	# 48 months	15.8 (GM)	not stated	not stated	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.		Gestation		total 48 mo		Maternal		
Sydney (12, L ,318)	Mean 6,12 months	# 48 months	15.2 (GM)	not stated	not stated	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.		Gestation		total 48 mo		Maternal		
Kosovo (37, L ,332)	6 months	# 4 years	15.0 (GM)	not stated	-2 (log10)	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Port Pirie (23, L ,537)	6 months	# 4 years	14.5 (GM)	-7.2 (log10)^	-4.1 (log10)	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight, Gestation	Marital Status, Maternal Age	unspecified		Maternal		Maternal Medication/Drug Use, Postnatal Factors, Birth Order, Birth Type, Birth Problems, Child's Sex, Residence in Regions, Child's Medical History, Mother's work site
Costa Rica (41, L ,184)	12-23 months	5 years	11.0	r=+.06	not stated									
Cincinnati (13, L ,253)	Mean 3-12 months	6.5 years	10.6	-2.2	0.1		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
Mexico City (31, L ,112)	Mean 6-18 months	# 36-60 months	10.1 (GM)	not stated	mean square = 87.81 (neg) (ln)	Family socioeconomic level, Mat. Edu.		Birth Weight				Maternal		Postnatal Factors, Birth Order, Child's Sex
Cleveland (16, L ,122)	6 months	4 years 10 months	9.99	r=-.06	not stated	Mat. Edu.	Cigarettes per day	Birth Weight, Gestation	Authoritarian Family Ideology	total (mean of 1, 2, 3, and 4 yrs 10 mos)	Child	Maternal		Child Stress, Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, History Alcohol Abuse
Boston (6, L ,170)	18 months	# 57 months	8.0	-3.3 (ln)^	-1.8 (ln)	Hollingshead index of Social Class		Birth Weight	Family Structure, Marital Status, Res Changes, Day Care	total	Child	Maternal		Birth Order, Child's Sex, Medication Used by Child, Preschool attendance

* L=Longitudinal cohort, X=Cross-sectional.
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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Boston (6, L, 170)	12 months	# 57 months	7.8	-2.4 (ln)	-1.6 (ln)	Hollingshead index of Social Class		Birth Weight	Family Structure, Marital Status, Res Changes, Day Care	total	Child	Maternal		Birth Order, Child's Sex, Medication Used by Child, Preschool attendance
Boston (7, L, 116)	18 months	10 years	7.8	-2.8	-1.2	Hollingshead Four-Factor Index of Social Class			Family Stress, Marital Status, Res Changes, Maternal Age	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex
Boston (7, L, 116)	12 months	10 years	7.7	-2	0	Hollingshead Four-Factor Index of Social Class			Family Balance, Family Stress, Marital Status	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Parents' Sense Competence, Birth Order, Child's Sex
Boston (6, L, 170)	24 months	# 57 months	7.0	-3.4 (ln)^	-3.2 (ln)^	Hollingshead index of Social Class		Birth Weight	Family Structure, Marital Status, Res Changes, Day Care	total	Child	Maternal		Birth Order, Child's Sex, Medication Used by Child, Preschool attendance
Rochester (11, L, 172) [all]	avg in infancy - 6-24 months	5 years	7.0	-9.7^	-5.3^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Boston (6, L, 170)	6 months	# 57 months	6.8	0.3 (ln)	0.3 (ln)	Hollingshead index of Social Class		Birth Weight	Family Structure, Marital Status, Res Changes, Day Care	total	Child	Maternal		Birth Order, Child's Sex, Medication Used by Child, Preschool attendance
Boston (7, L, 116)	6 months	10 years	6.7	-2	-1.3	Hollingshead Four-Factor Index of Social Class			Marital Status	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex
Boston (7, L, 116)	24 months	10 years	6.5	-7.1^	-5.8^	Hollingshead Four-Factor Index of Social Class			Marital Status, Res Changes, Maternal Age	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex

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				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Cincinnati (13, L ,253)	10 Days	6.5 years	5	-1	-0.3		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
Boston (34, L ,148)	24 months	10 years	< 8	not stated	-5.8^	Hollingshead Four-Factor Index of Social Class			Marital Status, Res Changes, Maternal Age	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex
Rochester (11, L ,105) [<10 group]	avg in infancy - 6-24 months	5 years	not stated	-15.8^	-9.2	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
(>2 - <4 years)		(>= 4 years)												
Kosovo (37, L ,332)	36 months	# 4 years	24.1 (GM)	not stated	-4.5 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Kosovo (37, L ,332)	42 months	# 4 years	23.2 (GM)	not stated	-5 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Kosovo (37, L ,332)	30 months	# 4 years	22.1 (GM)	not stated	-4.6 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Port Pirie (4, L ,494)	Lifetime avg. 3 years	7 years	17.4-21.7 (means of 2nd & 3rd quartiles) (GM)	not stated	-5.3 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.	Parental smoking	Birth Weight	Family Structure, Maternal Age	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex
Port Pirie (23, L ,537)	36 months	# 4 years	19.5 (GM)	-12 (log10)^	-6.3 (log10)^	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight, Gestation	Marital Status, Maternal Age	unspecified		Maternal		Maternal Medication/Drug Use, Postnatal Factors, Birth Order, Birth Type, Birth Problems, Child's Sex, Residence in Regions, Child's Medical History, Mother's work site

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Port Pirie (35, L ,372)	3 years	11-13 years	19.3 (GM)	-10.8 (ln)^	-4.2 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Cleveland (16, L ,155)	3 years	4 years 10 months	16.70	r=-.31^	not stated	Mat. Edu.	Cigarettes per day	Birth Weight, Gestation	Authoritarian Family Ideology	total (mean of 1, 2, 3, and 4 yrs 10 mos)	Child	Maternal		Child Stress, Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, History Alcohol Abuse
Cincinnati (13, L ,253)	Mean 27-36 months	6.5 years	16.3	-2.6^	-1.3		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
Sydney (12, L ,318)	Mean 30,36 months	# 48 months	12.4 (GM)	not stated	not stated	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.		Gestation		total 48 mo		Maternal		
Cleveland (16, L ,212)	Mean 0.5 - 3 years	4 years 10 months	9.99 @ 6 months & 16.70 @ both 2 yrs & 3 yrs	r=-.25	not stated	Mat. Edu.	Cigarettes per day	Birth Weight, Gestation	Authoritarian Family Ideology	total (mean of 1, 2, 3, and 4 yrs 10 mos)	Child	Maternal		Child Stress, Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, History Alcohol Abuse
Mexico City (31, L ,112)	Mean 24-36 months	# 36-60 months	9.7 (GM)	not stated	mean square = 101.62 (neg) (ln)	Family socioeconomic level, Mat. Edu.		Birth Weight				Maternal		Postnatal Factors, Birth Order, Child's Sex

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				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Port Pirie (35, L ,326)	Lifetime avg. 3 years	11-13 years	not stated	-10.4 (ln)^	-4.7 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
	(>= 4 years)	(>= 4 years)												
Kosovo (37, L ,332)	48 months	# 4 years	25.1 (GM)	not stated	-4.5 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Lavrion, Greece (20, X ,509) [cov. model b]	primary school children - not specified years	primary school children - not specified years	23.7	-3.76^	-2.66^	Mat. Edu., Pat. Edu., Pat. Occ.			Family Structure			Both		Birth Order, History Alcohol Abuse, Father's age
Lavrion, Greece (20, X ,509) [cov. model c]	primary school children - not specified years	primary school children - not specified years	23.7	-3.76^	-2.7^	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight	Family Structure, Marital Status, Life Events			Both		Birth Order, Child's Age, Child's Medical History, History Alcohol Abuse, Father's age, Bilingualism, Length of child's hospital stay after birth
Lavrion, Greece (20, X ,509) [cov. model d]	primary school children - not specified years	primary school children - not specified years	23.7	-3.76^	-2.6^	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight	Family Structure, Marital Status, Life Events			Both		Birth Order, Child's Sex, Child's Age, Residence in Regions, Child's Medical History, History Alcohol Abuse, Mouthing Behavior, Father's age, Bilingualism, Length of child's hospital stay after birth

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				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Lavrion, Greece (20, X ,509) [cov. model e]	primary school children - not specified years	primary school children - not specified years	23.7	-3.76^	-2.4^	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight	Family Structure, Marital Status, Life Events			Both		Birth Order, Child's Age, School Grade, Child's Medical History, History Alcohol Abuse, Father's age, Bilingualism, Length of child's hospital stay after birth
Port Pirie (4, L ,494)	Lifetime avg. 4 years	7 years	17.6-21.5 (means of 2nd & 3rd quartiles) (GM)	not stated	-5.1 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.	Parental smoking	Birth Weight	Family Structure, Maternal Age	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex
Port Pirie (4, L ,494)	Lifetime avg. 7 years	7 years	15.7-19.7 (means of 2nd & 3rd quartiles) (GM)	not stated	-4.1 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.	Parental smoking	Birth Weight	Family Structure, Maternal Age	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex
Mexico City II (26, X ,139)	7-9 years	7-9 years	19.4	r=-.33 (ln)	r=-.32 (ln)	Income, Mat. Edu., Pat. Edu.								Child's Sex, Type of housing, Nutritional status (wgt for ht & ht for age)
European Multicenter Study (39, M ,1639)	6-11 years	6-11 years	17.1 (GM)	not stated	-5.3	Mat. Edu., Pat. Occ.								Child's Sex, Child's Age
Port Pirie (23, L ,537)	48 months	# 4 years	16.4 (GM)	-9.6 (log10)^	-2.6 (log10)	Mat. Edu., Pat. Edu., Pat. Occ.		Birth Weight, Gestation	Marital Status, Maternal Age	unspecified		Maternal		Maternal Medication/Drug Use, Postnatal Factors, Birth Order, Birth Type, Birth Problems, Child's Sex, Residence in Regions, Child's Medical History, Mother's work site

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model									
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other	
Karachi (28, X ,138)	6-8 years	6-8 years	16.08	-4.3^	-6.3^									haemoglobin	Child's height-for-age
Port Pirie (35, L ,368)	5 years	11-13 years	14.3 (GM)	-9.8 (ln)^	-4.4 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal			Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Port Pirie (35, L ,326)	Lifetime avg. 11-13 years	11-13 years	14.1 (GM)	-12.7 (ln)^	-4.7 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal			Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Cincinnati (13, L ,253)	Mean 39-48 months	6.5 years	14.0	-3.1^	-1.5		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal			Child's Sex
Cincinnati (13, L ,253)	Mean 51-60 months	6.5 years	11.8	-4.2^	-2.3^		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal			Child's Sex
Port Pirie (35, L ,360)	7 years	11-13 years	11.6 (GM)	-9.8 (ln)^	-3.7 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal			Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Dunedin, New Zealand (33, L ,579)	11 years	11 years	11.1	r=-0.05 (ln)	not stated										
Sassuolo, Italy (8, X ,211)	7-8 years	7-8 years	10.99 (GM)	r = -0.064 (log10)	not stated										

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				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Sydney (12, L ,318)	Mean 42,48 months	# 48 months	10.4 (GM)	not stated	not stated	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.		Gestation			total 48 mo	Maternal		
San Luis Potosi, Mexico (10, X ,39) [reference group]	6-9 years	6-9 years	9.73 (GM)	r=+.06 (ln)	r=+.02 (ln)	Bronffman Index of Socioeconomic Status, Mat. Edu., Pat. Edu.								Child's Sex, Child's Age
San Luis Potosi, Mexico (10, X ,41) [exposed group]	6-9 years	6-9 years	8.98 (GM)	r=-.14 (ln)	r=-.12 (ln)	Bronffman Index of Socioeconomic Status, Mat. Edu., Pat. Edu.								Child's Sex, Child's Age
Mexico City (31, L ,112)	Mean 42-54 months	# 42-54 months	8.4 (GM)	not stated	mean square = 6.23 (neg) (ln)	Family socioeconomic level, Mat. Edu.		Birth Weight				Maternal		Postnatal Factors, Birth Order, Child's Sex
Port Pirie (35, L ,326)	11-13 years	11-13 years	7.9 (GM)	-7.1 (ln)^	-3.4 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Rochester (11, L ,172) [all]	Lifetime avg. 5 years	5 years	7.4	-10^	-5.7^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Boston (6, L ,170)	57 months	# 57 months	6.4	-4.7 (ln)^	-2.5 (ln)	Hollingshead index of Social Class		Birth Weight	Family Structure, Marital Status, Res Changes, Day Care	total	Child	Maternal		Birth Order, Child's Sex, Medication Used by Child, Preschool attendance

* L=Longitudinal cohort, X=Cross-sectional.

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Boston (7, L ,116)	57 months	10 years	6.3	-9^	-2.6	Hollingshead Four-Factor Index of Social Class		Birth Weight	Family Stress, Marital Status, Maternal Age	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex
Rochester (11, L ,171) [all]	Concurrent - 5 years	5 years	5.9	-10.2^	-6.1^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Boston (7, L ,116)	10 years	10 years	2.9	-15.3^	-4.6	Hollingshead Four-Factor Index of Social Class		Birth Weight	Family Stress, Marital Status, Day Care, Maternal Age	scales V & VI @ 120 mo, total @ 57 mo	Child	Maternal		Child Stress, Birth Order, Child's Sex
Kosovo (38, L ,258)	Mean AUC7 years	7 years	age7=21.2; cumulative age7=1.21	-1.4 (log10)	-4.1 (log10)^	Mat. Edu.		Birth Weight	Family Structure, Maternal Age	unspecified	Child	Maternal		Child's Sex
Rochester (11, L ,101) [<10 group]	Concurrent - 5 years	5 years	not stated	-25.6^	-17.9^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L ,101) [<10 group]	Lifetime avg. 5 years	5 years	not stated	-25.4^	-15.2^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Sydney (12, L ,318)	Lifetime avg. 48 months	# 48 months	not stated	not stated	not stated	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu., Pat. Edu.		Gestation		total 48 mo		Maternal		
Port Pirie (35, L ,326)	Lifetime avg. 5 years	11-13 years	not stated	-11.1 (ln)^	-5.6 (ln)^	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence

* L=Longitudinal cohort, X=Cross-sectional.
 ** (ln)/(log10) = Original coefficient reported in log scale.
 # = McCarthy GCI, all unmarked are full-scale IQ measures.
 ^ statistically significant (p < 0.05)

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Port Pirie (35, L ,326)	Lifetime avg. 7 years	11-13 years	not stated	-11 (ln)^	-5.1 (ln)	Daniel's Scale of Prestige of Occupations in Australia, Mat. Edu.	Parental smoking habits	Birth Weight	Family Structure, Family Functioning, Marital Status, Maternal Age, Life Events	unspecified		Maternal		Breast Feeding, Feeding Method, Birth Order, Child's Sex, Child's Age, School Grade, School Absence
Cincinnati (13, L ,253)	Mean 66-72 months	6.5 years	not stated	-5.8^	-3.3^		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
Cincinnati (13, L ,253)	Lifetime avg. 72 months	6.5 years	not stated	-3.1^	1.3		Cigarette consumption during pregnancy	Birth Weight, Birth Length		unspecified		Maternal		Child's Sex
	(Other)	(Other)												
Cleveland (15, L ,167)	3 years	3 years	16.95	r=-.27^	not stated	Mat. Edu.			Authoritarian Family Ideology	Total	Child	Maternal		Birth Order, Child's Sex, Child's Age
Cleveland (14, L ,153)	2 years	3 years	16.74	r=-.31^	not stated	Mat. Edu.	Maternal cigarettes/day	Birth Weight	Authoritarian Family Ideology	Preschool Inventory 3 year	Child	Maternal		Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, Child's Age
Cleveland (15, L ,153)	2 years	3 years	16.74	r=-.31^	not stated	Mat. Edu.			Authoritarian Family Ideology	Total	Child	Maternal		Birth Order, Child's Sex, Child's Age
Cleveland (14, L ,165)	3 years	3 years	16.68	r=-.29^	not stated	Mat. Edu.	Maternal cigarettes/day	Birth Weight	Authoritarian Family Ideology	Preschool Inventory 3 year	Child	Maternal		Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, Child's Age

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Rochester (11, L ,172) [all]	Peak - 5 years	5 years	11.3	-4.7^	-2.6^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Cleveland (14, L ,126)	6 months	3 years	10.05	r=-.04	not stated	Mat. Edu.	Maternal cigarettes/day	Birth Weight	Authoritarian Family Ideology	Preschool Inventory 3 year	Child	Maternal		Maternal Medication/Drug Use, Maternal Alcohol Consumption, Birth Order, Child's Sex, Child's Age
Cleveland (15, L ,126)	6 months	3 years	10.05	r=-.04	not stated	Mat. Edu.			Authoritarian Family Ideology	Total	Child	Maternal		Birth Order, Child's Sex, Child's Age
Rochester (11, L ,172) [all]	Lifetime avg. 3 years	3 years	7.7	-7.4^	-3.5	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L ,172) [all]	avg in infancy - 6-24 months	3 years	7.0	-7.3^	-3.2	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L ,172) [all]	avg in infancy - 6-24 months	3 & 5 years	7.0	-8.5^	-4.3^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L ,172) [all]	Lifetime avg. 3 & 5 years	3 & 5 years	not stated	-8.7^	-4.6^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L ,172) [all]	Peak - 3 years	3 years	not stated	-4^	-1.9	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Rochester (11, L, 171) [all]	Concurrent - 3 years	3 years	not stated	-6 [^]	-3.1 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 171) [all]	Concurrent - 3 & 5 years	3 & 5 years	not stated	-8.1 [^]	-4.6 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 172) [all]	Peak - 3 & 5 years	3 & 5 years	not stated	-4.4 [^]	-2.3 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Lifetime avg. 3 years	3 years	not stated	-23 [^]	-12.2	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Lifetime avg. 3 & 5 years	3 & 5 years	not stated	-24.2 [^]	-13.7 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Peak - 3 years	3 years	not stated	-20.9 [^]	-13.6 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Peak - 5 years	5 years	not stated	-21.2 [^]	-14.4 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Peak - 3 & 5 years	3 & 5 years	not stated	-21 [^]	-14 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Concurrent - 3 & 5 years	3 & 5 years	not stated	-23.8 [^]	-15.8 [^]	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex

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Study Population* (ref., type, n)	PbB Age	Outcome Age #	Mean PbB (ug/dL)	Estimated Delta for PbB 5 -> 15**		Covariates in Model								
				Crude	Adj	SES	Smoking	Fetal Growth	Family Environment	HOME	Race	Parental Intelligence	Iron Status	Other
Rochester (11, L, 105) [<10 group]	avg in infancy - 6-24 months	3 years	not stated	-12.9	-5.8	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 105) [<10 group]	avg in infancy - 6-24 months	3 & 5 years	not stated	-14.3^	-7.5	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex
Rochester (11, L, 101) [<10 group]	Concurrent - 3 years	3 years	not stated	-21.9^	-13.6^	yearly household income, Mat. Edu.	Tobacco use during pregnancy (user/nonuser)	Birth Weight		total	Mother	Maternal	serum transferrin saturation	Child's Sex

* L=Longitudinal cohort, X=Cross-sectional.

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^ statistically significant (p < 0.05)