

# Supplemental Information

**SUPPLEMENTAL TABLE 5** Regression Coefficients, SEs, CIs, *P* Values, and Adjusted *P* Values for Each Predictor and Control Variable for Waves 5–6 MR Scores

Variable <sup>a</sup>	B Coefficient	SE	95% CI	<i>P</i>	Adjusted <i>P</i> <sup>b</sup>
Infants who were being breastfed at wave 1 ( <i>n</i> = 2009)					
DV: MR scores wave 5					
Intercept	11.49	4.05	3.52 to 19.46	.01	N/A
Child's age wave 5	1.11	0.42	0.27 to 1.94	.01	.14
Child's birth wt	<.001	<.001	−0.001 to <.001	.17	.931
Pregnancy: average No. drinks	0.35	0.29	−0.22 to 0.92	.23	.931
Learning difficulty wave 5	−3.29	2.90	−9.20 to 2.626	.27	.931
Mother's level of education	−0.09	0.11	−0.30 to 0.13	.42	.99
Mother's average daily cigarettes wave 1	−0.04	0.05	−0.14 to 0.07	.45	.99
Mother's modified AUDIT-C score wave 1	−0.03	0.07	−0.16 to 0.09	.60	.99
Child's sex	0.11	0.25	−0.38 to 0.59	.66	.99
Average daily cigarettes while pregnant	0.03	0.08	−0.12 to 0.17	.73	.99
Head injury wave 5	−0.47	2.20	−4.95 to 4.01	.83	.99
Combined family income	−0.01	0.06	−0.12 to 0.10	.85	.99
Pregnancy: average d per wk drinking alcohol	−0.03	0.20	−0.43 to 0.37	.88	.99
Breastfeeding duration	<.001	0.001	−0.001 to 0.001	.93	.99
Mother's age wave 1	<.001	0.03	<−0.001 to 0.052	.99	.99
DV: MR scores wave 6					
Intercept	14.93	6.27	2.43 to 27.42	.02	N/A
Learning difficulty wave 6	−4.68	1.62	−7.94 to −1.40	.01	.08
Pregnancy: average No. drinks	−0.47	0.32	−1.11 to 0.16	.14	.63
Pregnancy: average d per wk drinking alcohol	−0.29	0.22	−0.73 to 0.14	.19	.63
Combined family income	−0.08	0.06	−0.20 to 0.04	.19	.63
Child's age wave 6	0.65	0.53	−0.41 to 1.72	.23	.63
Mother's age wave 1	0.02	0.03	−0.03 to 0.07	.45	.68
Average daily cigarettes while pregnant	0.06	0.09	−0.11 to 0.23	.46	.68
Breastfeeding duration	<.001	0.001	−0.002 to 0.001	.50	.68
Mother's modified AUDIT-C score wave 1	0.05	0.08	−0.11 to 0.21	.53	.68
Mother's average daily cigarettes wave 1	0.04	0.06	−0.09 to 0.17	.53	.68
Child's sex	−0.15	0.27	−0.68 to 0.37	.56	.68
Mother's level of education	0.06	0.10	−0.15 to 0.26	.58	.68
Child's birth wt	<.001	<.001	−0.001 to <.001	.73	.78
Head injury wave 6	<.001	1.62	−2.92 to 3.63	.83	.83
Infants who had been breastfed at any time ( <i>n</i> = 4679)					
DV: MR scores wave 5					
Intercept	11.89	3.06	5.82 to 17.96	<.001	N/A
Child's age wave 5	0.99	0.32	0.36 to 1.61	.002	.03
Child's birth wt	<.001	<.001	−0.001 to <.001	.18	.88
Learning difficulty wave 5	−3.51	2.61	−8.84 to 1.82	.19	.88
Mother's average daily cigarettes wave 1	−0.03	0.03	−0.08 to 0.03	.31	.89
Mother's modified AUDIT-C score wave 1	−0.03	0.04	−0.11 to 0.05	.44	.89
Combined family income	0.02	0.04	−0.05 to 0.09	.49	.89
Mother's level of education	−0.04	0.07	−0.18 to 0.09	.52	.89
Pregnancy: average No. drinks	0.10	0.19	−0.27 to 0.47	.60	.89

TABLE 5 Continued

Variable <sup>a</sup>	B Coefficient	SE	95% CI	P	Adjusted P <sup>b</sup>
Breastfeeding duration	<0.001	<0.001	−0.001 to 0.001	.66	.89
Pregnancy: average d per wk drinking alcohol	0.06	0.15	−0.23 to 0.36	.66	.89
Head injury wave 5	−0.53	2.02	−4.63 to 3.581	.80	.89
Average daily cigarettes while pregnant	−0.01	0.04	−0.08 to 0.07	.80	.89
Child's sex	−0.02	0.17	−0.35 to 0.30	.88	.89
Mother's age wave 1	0.003	0.02	−0.03 to 0.04	.89	.89
DV: MR scores wave 6					
Intercept	14.49	5.01	4.44 to 24.54	.01	N/A
Learning difficulty wave 6	−4.76	1.37	−7.53 to −1.98	<.001	.01
Combined family income	−0.07	0.04	−0.15 to <0.001	.06	.41
Child's age wave 6	0.70	0.44	−0.18 to 1.58	.12	.41
Pregnancy: average No. drinks	−0.32	0.21	−0.74 to 0.09	.13	0.41
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.15	.41
Mother's modified AUDIT-C score wave 1	0.04	0.05	−0.05 to 0.13	.36	.84
Mother's age wave 1	0.01	0.02	−0.03 to 0.05	.56	.99
Child's sex	0.09	0.17	−0.24 to 0.41	.60	.99
Mother's average daily cigarettes wave 1	0.01	0.03	−0.05 to 0.07	.72	.99
Average daily cigarettes while pregnant	0.01	0.04	−0.07 to 0.09	.81	.99
Head injury wave 6	0.35	1.46	−2.62 to 3.33	.81	.99
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.92	.99
Pregnancy: average d per wk drinking alcohol	0.01	0.17	−0.32 to 0.34	.95	.99
Mother's level of education	<0.001	0.07	−0.14 to 0.14	.99	.99

DV, dependent variable; N/A, not applicable.

<sup>a</sup> VIF <10 for all variables.

<sup>b</sup> Benjamini-Hochberg method.

**SUPPLEMENTAL TABLE 6** Regression Coefficients, SEs, CIs, *P* Values, and Adjusted *P* Values for Each Predictor and Control Variable for Wave 3 WAI Scores

Variable <sup>a</sup>	B Coefficient	SE	95% CI	<i>P</i>	Adjusted <i>P</i> <sup>b</sup>
Infants who were being breastfed at wave 1 ( <i>n</i> = 2009)					
DV: WAI scores wave 3					
Intercept	0.75	3.71	−6.52 to 8.03	.84	N/A
Child’s age wave 3	5.35	0.68	4.01 to 6.69	<.001	<.001
Learning difficulty wave 3	−8.89	1.48	−11.83 to −5.95	<.001	<.001
Head injury wave 3	−6.62	3.97	−14.72 to 1.48	.11	.51
Child’s sex	−0.47	0.34	−1.14 to 0.20	.17	.51
Pregnancy: average No. drinks	0.52	0.38	−0.22 to 1.26	.17	.51
Mother’s modified AUDIT-C score wave 1	−0.10	0.09	−0.27 to 0.08	.28	.70
Mother’s age wave 1	0.03	0.04	−0.03 to 0.10	.33	.70
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.47	.83
Pregnancy: average d per wk drinking alcohol	0.19	0.27	−0.35 to 0.72	.50	.83
Child’s main language spoken at home	0.30	0.56	−0.81 to 1.40	.60	.90
Combined family income	0.02	0.07	−0.12 to 0.17	.76	.91
Average daily cigarettes while pregnant	0.03	0.11	−0.19 to 0.25	.81	.91
Child’s birth wt	<0.001	<0.001	<0.001 to <0.001	.84	.91
Mother’s average daily cigarettes wave 1	−0.01	0.08	−0.17 to 0.14	.85	.91
Mother’s level of education	0.01	0.12	−0.22 to 0.24	.94	.94
Infants who had been breastfed at any time ( <i>n</i> = 4679)					
DV: WAI scores wave 3					
Intercept	5.13	2.48	0.27 to 9.99	.04	N/A
Child’s age wave 3	4.34	0.46	3.44 to 5.24	<.001	<.001
Learning difficulty wave 3	−8.68	1.12	−10.93 to −6.44	<.001	<.001
Average daily cigarettes while pregnant	−0.12	0.05	−0.21 to −0.03	.01	.06
Mother’s age wave 1	0.04	0.02	<0.001 to 0.09	.05	.18
Head injury wave 3	−6.69	4.00	−14.87 to 1.49	.11	.27
Mother’s average daily cigarettes wave 1	0.06	0.04	−0.01 to 0.13	.11	.27
Pregnancy: average No. drinks	0.23	0.25	−0.26 to 0.72	.36	.77
Mother’s level of education	−0.06	0.08	−0.22 to 0.09	.43	.80
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.57	.85
Child’s main language spoken at home	0.15	0.37	−0.58 to 0.88	.69	.85
Pregnancy: average d per wk drinking alcohol	0.08	0.20	−0.32 to 0.47	.71	.85
Child’s sex	−0.06	0.22	−0.50 to 0.38	.79	.85
Child’s birth wt	<0.001	<0.001	<0.001 to <0.001	.79	.85
Mother’s modified AUDIT-C score wave 1	−0.01	0.06	−0.12 to 0.09	.79	.85
Combined family income	<0.001	0.05	−0.09 to 0.10	.93	.93

DV, dependent variable; N/A, not applicable.

<sup>a</sup> VIF <10 for all variables.

<sup>b</sup> Benjamini-Hochberg method.

**SUPPLEMENTAL TABLE 7** Regression Coefficients, SEs, CIs, *P* Values, and Adjusted *P* Values for Each Predictor and Control Variable for Adapted PPVT-III Scores Across Waves 4–6

Variable <sup>a</sup>	B Coefficient	SE	95% CI	<i>P</i>	Adjusted <i>P</i> <sup>b</sup>
Infants who were being breastfed at wave 1 ( <i>n</i> = 2009)					
DV: adapted PPVT-III scores wave 3					
Intercept	56.31	3.38	49.67 to 62.96	<.001	N/A
Learning difficulty wave 3	−5.53	1.39	−8.31 to −2.75	<.001	<.001
Child's age wave 3	1.81	0.64	0.56 to 3.07	.01	.04
Pregnancy: average No. drinks	−0.85	0.35	−1.55 to −0.15	.02	.09
Combined family income	0.11	0.06	−0.01 to 0.24	.07	.27
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.11	.34
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.23	.55
Mother's modified AUDIT-C score wave 1	0.09	0.08	−0.07 to 0.25	.26	.55
Mother's age wave 1	0.03	0.03	−0.03 to 0.09	.32	.55
Average daily cigarettes while pregnant	0.09	0.10	−0.09 to 0.28	.33	.55
Mother's level of education	−0.07	0.11	−0.28 to 0.14	.50	.75
Child's main language spoken at home	0.27	0.49	−0.70 to 1.24	.59	.80
Child's sex	0.09	0.30	−0.49 to 0.67	.76	.95
Mother's average daily cigarettes wave 1	−0.02	0.07	−0.15 to 0.12	.83	.95
Pregnancy: average d per wk drinking alcohol	0.03	0.25	−0.46 to 0.52	.90	.96
Head injury wave 3	0.21	3.65	−7.24 to 7.66	.96	.96
DV: adapted PPVT-III scores wave 4					
Intercept	65.24	3.47	58.41 to 72.07	<.001	N/A
Child's age wave 4	1.66	0.46	0.75 to 2.57	<.001	<.001
Pregnancy: average d per wk drinking alcohol	0.53	0.21	0.10 to 0.95	.02	.11
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.06	.32
Mother's average daily cigarettes wave 1	−0.07	0.06	−0.19 to 0.05	.27	.99
Mother's modified AUDIT-C score wave 1	−0.06	0.07	−0.20 to 0.07	.36	.99
Learning difficulty wave 4	−1.42	2.46	−6.42 to 3.58	.57	.99
Average daily cigarettes while pregnant	0.03	0.09	−0.14 to 0.20	.70	.99
Child's main language spoken at home	−0.11	0.43	−0.95 to 0.72	.79	.99
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.80	.99
Mother's age wave 1	−0.01	0.03	−0.06 to 0.05	.82	.99
Combined family income	−0.01	0.06	−0.12 to 0.10	.88	.99
Child's sex	0.03	0.25	−0.47 to 0.53	.92	.99
Pregnancy: average No. drinks	−0.01	0.31	−0.62 to 0.60	.97	.99
Mother's level of education	<0.001	0.09	−0.18 to 0.18	.99	.99
DV: adapted PPVT-III scores wave 5					
Intercept	72.93	4.23	64.59 to 81.28	<.001	N/A
Child's age wave 5	0.83	0.46	−0.08 to 1.73	.07	.51
Child's main language spoken at home	−0.70	0.41	−1.51 to 0.12	.09	.51
Learning difficulty wave 5	−3.28	1.95	−7.25 to 0.68	.10	.51
Mother's modified AUDIT-C score wave 1	0.05	0.06	−0.08 to 0.17	.47	.91
Child's sex	0.16	0.24	−0.32 to 0.64	.52	.91
Mother's level of education	−0.06	0.09	−0.24 to 0.13	.55	.91
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.57	.91
Mother's age wave 1	−0.01	0.03	−0.07 to 0.04	.59	.91
Pregnancy: average d per wk drinking alcohol	−0.10	0.20	−0.50 to 0.29	.61	.91
Combined family income	−0.03	0.06	−0.14 to 0.08	.61	.91
Pregnancy: average No. drinks	0.11	0.27	−0.43 to 0.65	.69	.91
Head injury wave 5	0.77	2.16	−3.62 to 5.16	.72	.91
Average daily cigarettes while pregnant	−0.02	0.08	−0.18 to 0.14	.80	.93
Mother's average daily cigarettes wave 1	0.01	0.06	−0.11 to 0.13	.87	.93
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.93	.93
Infants who had been breastfed at any time <i>n</i> = 4679					
DV: adapted PPVT-III scores wave 3					
Intercept	59.08	2.27	54.62 to 63.55	<.001	<.001
Learning difficulty wave 3	−5.25	1.08	−7.41 to −3.09	<.001	<.001
Child's age wave 3	1.22	0.41	0.41 to 2.03	<.001	.02
Mother's age wave 1	0.05	0.02	0.01 to 0.09	.03	.11
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.03	.11
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.04	.11
Pregnancy: average No. drinks	−0.46	0.24	−0.93 to 0.01	.06	.14
Combined family income	0.07	0.04	−0.01 to 0.16	.09	.20

**TABLE 7** Continued

Variable <sup>a</sup>	B Coefficient	SE	95% CI	P	Adjusted P <sup>b</sup>
Mother's level of education	-0.06	0.07	-0.20 to 0.08	.40	.74
Mother's average daily cigarettes wave 1	0.02	0.03	-0.04 to 0.08	.45	.75
Child's sex	0.12	0.19	-0.26 to 0.49	.54	.81
Mother's modified AUDIT-C score wave 1	0.02	0.05	-0.08 to 0.12	.64	.84
Pregnancy: average d per wk drinking alcohol	-0.07	0.18	-0.42 to 0.28	.69	.84
Child's main language spoken at home	0.12	0.34	-0.55 to 0.78	.73	.84
Average daily cigarettes while pregnant	0.01	0.04	-0.08 to 0.09	.90	.96
Head injury wave 3	0.11	3.67	-7.39 to 7.60	.98	.98
DV: adapted PPVT-III scores wave 4					
Intercept	64.69	2.26	60.24 to 69.14	<.001	N/A
Child's age wave 4	1.68	0.31	1.07 to 2.28	<.001	<.001
Pregnancy: average d per wk drinking alcohol	0.29	0.16	-0.02 to 0.60	.07	.36
Mother's age wave 1	-0.03	0.02	-0.06 to <0.001	.07	.36
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.14	.51
Mother's average daily cigarettes wave 1	-0.04	0.03	-0.09 to 0.02	.21	.63
Mother's modified AUDIT-C score wave 1	-0.05	0.04	-0.13 to 0.03	.25	.63
Child's sex	0.15	0.16	-0.17 to 0.47	.35	.74
Child's main language spoken at home	-0.24	0.28	-0.79 to 0.32	.41	.74
Pregnancy: average No. drinks	0.15	0.21	-0.26 to 0.56	.46	.74
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.56	.74
Learning difficulty wave 4	-1.34	2.37	-6.17 to 3.49	.58	.74
Mother's level of education	0.03	0.06	-0.08 to 0.15	.59	.74
Combined family income	-0.01	0.04	-0.08 to 0.07	.89	≥.99
Average daily cigarettes while pregnant	<0.001	0.04	-0.07 to 0.08	.94	≥.99
Head injury wave 4	0.01	2.18	-4.43 to 4.45	≥.99	≥.99
DV: adapted PPVT-III scores wave 5					
Intercept	71.86	3.13	65.65 to 78.07	<.001	N/A
Child's age wave 5	0.85	0.35	0.16 to 1.53	.02	.24
Learning difficulty wave 5	-3.28	1.79	-6.93 to 0.37	.08	.58
Mother's age wave 1	-0.02	0.02	-0.06 to 0.01	.24	.96
Mother's modified AUDIT-C score wave 1	0.03	0.04	-0.05 to 0.11	.45	.96
Breastfeeding duration	<0.001	<0.001	<0.001 to <0.001	.49	.96
Pregnancy: average d per wk drinking alcohol	-0.09	0.15	-0.40 to 0.21	.54	.96
Pregnancy: average No. drinks	-0.11	0.20	-0.51 to 0.28	.57	.96
Child's birth wt	<0.001	<0.001	<0.001 to <0.001	.63	.96
Child's main language spoken at home	-0.13	0.29	-0.70 to 0.44	.65	.96
Head injury wave 5	0.73	1.97	-3.29 to 4.74	.71	.96
Mother's average daily cigarettes wave 1	-0.01	0.03	-0.07 to 0.05	.76	.96
Average daily cigarettes while pregnant	0.01	0.04	-0.07 to 0.08	.82	.96
Child's sex	0.03	0.16	-0.28 to 0.35	.83	.96
Mother's level of education	<0.001	0.06	-0.12 to 0.13	.97	.97
Combined family income	<0.001	0.04	-0.07 to 0.08	.97	.97

DV, dependent variable; N/A, not applicable.

<sup>a</sup> VIF <10 for all variables.

<sup>b</sup> Benjamini-Hochberg method.