

SUPPLEMENTARY DATA

Supplementary Table 1. Associations between maternal diabetes and risk of attention-deficit hyperactivity disorder (ADHD) in offspring

	Adjusting for smoking, alcohol and pre-pregnancy BMI*		Adjusting for preeclampsia/eclampsia, congenital anomalies, birth weight and gestational age at delivery *	
Maternal diabetes	HR (95% CI)	P value	HR (95% CI)	P value
a) GDM overall as one group				
None	1.00 (reference)		1.00 (reference)	
Pre-existing T1D	1.54 (1.08, 2.21)	0.02	1.50 (1.05, 2.15)	0.03
Pre-existing T2D	1.35 (1.21, 1.50)	<0.001	1.40 (1.26, 1.57)	<0.001
GDM	1.00 (0.94, 1.06)	0.92	1.01 (0.95, 1.08)	0.69
b) GDM was separated by whether anti-diabetic medications were used during pregnancy				
None	1.00 (reference)		1.00 (reference)	
Pre-existing T1D	1.55 (1.08, 2.22)	0.02	1.51 (1.05, 2.17)	0.03
Pre-existing T2D	1.36 (1.22, 1.51)	<0.001	1.41 (1.27, 1.57)	<0.001
GDM with medications	1.20 (1.07, 1.34)	0.001	1.25 (1.12, 1.39)	<0.001
GDM without medications	0.92 (0.85, 0.99)	0.03	0.92 (0.86, 1.00)	0.04

*other covariates included in the Cox regression models were random sibling effect, birth year, maternal age at delivery, parity, education, household income, maternal race/ethnicity, history of comorbidity, history of maternal ADHD, and sex of the child.

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Supplementary Table 2. Associations between maternal diabetes and risk of attention-deficit hyperactivity disorder (ADHD) in offspring after excluding children with congenital anomalies

		Bivariate*		Multivariate adjusted†	
Maternal diabetes	No. with ADHD/Total	HR (95% CI)	P value	HR (95% CI)	P value
a) GDM overall as one group					
None	14,250/273,618	1.00 (reference)		1.00 (reference)	
Pre-existing T1D	42/450	1.99 (1.36, 2.92)	<0.001	1.59 (1.08, 2.33)	0.02
Pre-existing T2D	413/6,895	1.34 (1.19, 1.49)	<0.001	1.36 (1.21, 1.53)	<0.001
GDM	1,269/26,925	0.92 (0.87, 0.98)	0.02	1.01 (0.94, 1.08)	0.79
b) GDM was separated by whether anti-diabetic medications was used during pregnancy					
None	14,250/273,618	1.00 (reference)		1.00 (reference)	
Pre-existing T1D	42/450	2.00 (1.39, 2.89)	<0.001	1.59 (1.09, 2.32)	0.02
Pre-existing T2D	413/6,895	1.34 (1.20, 1.50)	<0.001	1.36 (1.21, 1.54)	<0.001
GDM with medications	419/8,614	1.18 (1.06, 1.32)	0.003	1.25 (1.12, 1.40)	<0.001
GDM without medications	850/20,920	0.83 (0.77, 0.90)	<0.001	0.92 (0.85, 1.00)	0.04

*adjusted for random sibling effect and birth year in the Cox regression models.

†adjusted for random sibling effect, birth year, maternal age at delivery, parity, education, household income, maternal race/ethnicity, history of comorbidity, history of maternal ADHD, and sex of the child in the Cox regression models.

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Supplementary Table 3. Associations between maternal diabetes and risk of attention-deficit hyperactivity disorder (ADHD) in offspring after excluding mothers who used oral anti-diabetes medications only during pregnancy

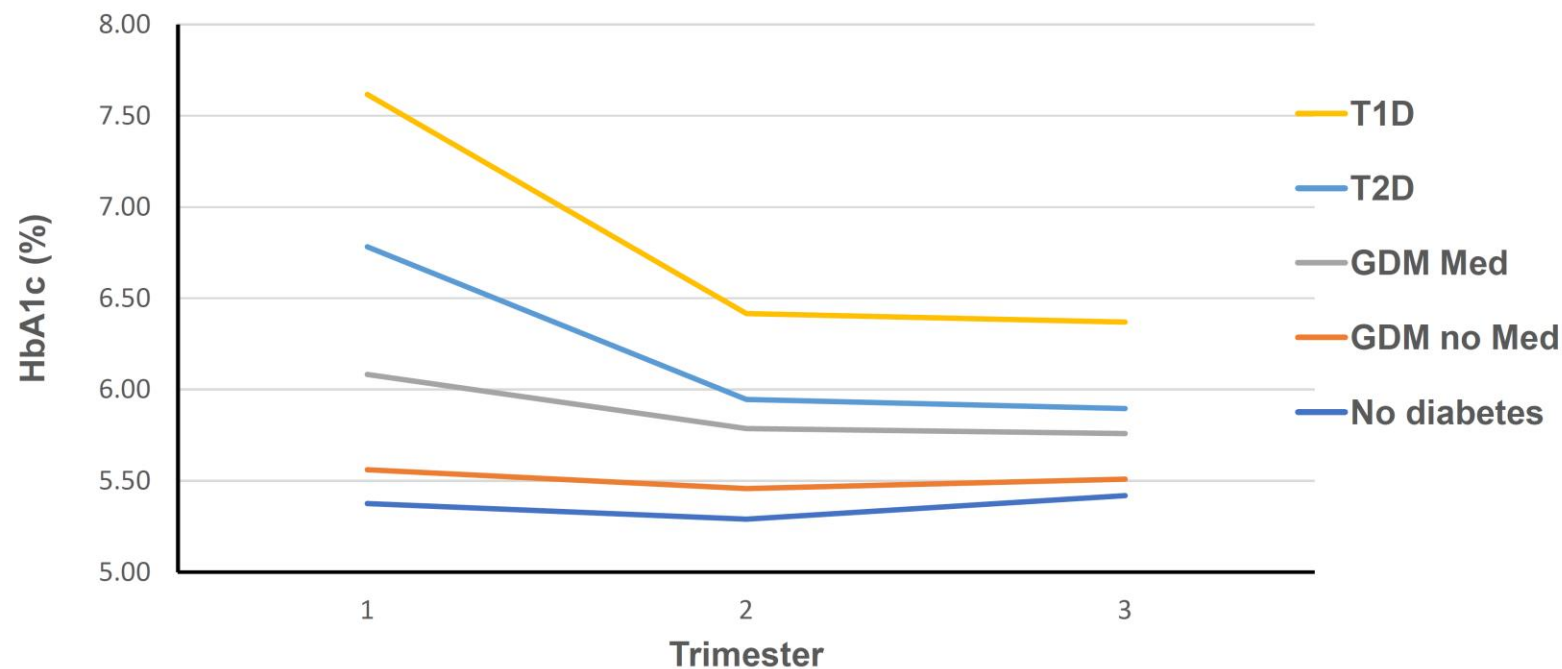
		Bivariate*		Multivariate adjusted†	
Maternal diabetes	No. with ADHD/Total	HR (95% CI)	P value	HR (95% CI)	P value
<i>Diabetes status with medication use during pregnancy</i>					
None	15,469/295,304	1.00 (reference)		1.00 (reference)	
Pre-existing T1D	48/522	2.01 (1.42, 2.84)	<0.001	1.59 (1.09, 2.32)	0.02
Pre-existing T2D	432/6,777	1.43 (1.28, 1.60)	<0.001	1.49 (1.32, 1.67)	<0.001
GDM with medications	411/7,216	1.20 (1.42, 2.84)	<0.001	1.28 (1.14, 1.43)	<0.001
GDM without medications	940/20,920	0.84 (0.78, 0.90)	<0.001	0.93 (0.86, 1.00)	0.06

*adjusted for random sibling effect and birth year in the Cox regression models.

†adjusted for random sibling effect, birth year, maternal age at delivery, parity, education, household income, maternal race/ethnicity, history of comorbidity, history of maternal ADHD, and sex of the child in the Cox regression models.

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Supplementary Figure 1. Mean HbA1c for a Subset of the Study Cohort with HbA1c data



Sample size	Any Trimester (% of cohort)	Trimester 1	Trimester 2	Trimester 3
T1D	477 (91.4%)	394	293	294
T2D	5,080 (65.0%)	3,318	1,845	2,301
GDM Med	5,423 (63.0%)	1,714	1,484	3,268
GDM no Med	7,581 (36.2%)	1,736	1,425	5,125
No diabetes	15,311 (5.2%)	9,385	2,567	3,918