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Supplemental Material

Cadmium Body Burden and Gestational Diabetes Mellitus: A Prospective Study

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Table S1. Associations between maternal urinary Cd levels and GDM, stratified by parity

Cd ($\mu\text{g/L}$ SG)	GDM/Total	RR (95% CI) ^a	RR (95% CI) ^b
Primiparous (n = 1763)			
Low (< 0.51)	50/608	1.00	1.00
Medium (0.51-0.86)	46/576	0.97 (0.65, 1.45)	1.14 (0.64, 2.04)
High (\geq 0.86)	65/579	1.37 (0.94, 1.97)	0.95 (0.63, 1.42)
<i>P</i> for trend ^c		0.05	0.11
Multiparous (n = 263)			
Low (< 0.51)	6/68	1.00	1.00
Medium (0.51-0.86)	16/99	1.83 (0.72, 4.68)	1.87 (0.71, 4.96)
High (\geq 0.86)	15/96	1.77 (0.69, 4.56)	2.15 (0.76, 6.05)
<i>P</i> for trend ^c		0.35	0.33
<i>P</i> for interaction ^d		0.78	0.65

Abbreviations: Cd, cadmium; GDM, gestational diabetes mellitus; RR, risk ratio; SG, specific gravity.

^a Unadjusted risk ratio.

^b Adjusted for maternal age, education, fetal sex, passive smoking, pre-pregnancy BMI, total arsenic level, and hypertensive disorder in pregnancy.

^c *P*-values for trend were derived using a continuous variable with the median value of each tertile.

^d *P*-values for the interaction term between maternal urinary Cd and parity.

Table S2. Risk ratios from GEE model evaluating the interaction between Cd and As

Metal exposure	RR (95% CI) ^a	RR (95% CI) ^b
Cd ^c	1.11 (0.85, 1.44)	1.07 (0.83, 1.39)
As ^c	1.02 (0.78, 1.33)	1.06 (0.81, 1.37)
Cd*As	1.63 (0.92, 2.89)	1.63 (0.93, 2.87)
<i>P</i> for interaction ^d	0.10	0.09

Abbreviations: GEE, generalized estimating equations; Cd, cadmium; As, arsenic; GDM, gestational diabetes mellitus; CI, confidence interval; RR, risk ratio.

^a Unadjusted risk ratio.

^b Adjusted for maternal age, fetal sex, education, pre-pregnancy BMI, parity, passive smoking, and hypertensive disorder in pregnancy.

^c Cd and As were categorized into high and low levels based on median values of their concentrations.

^d *p*-value for the interaction term between maternal urinary Cd and As.

Table S3. Association between maternal urinary cadmium levels and gestational diabetes among women without passive smoking during pregnancy (n =1450)

Cadmium ($\mu\text{g/L}$ SG)	GDM/Total	RR (95% CI) ^a	RR (95% CI) ^b
Low (< 0.51)	44/494	1.00	1.00
Medium (0.51-0.86)	42/486	0.97 (0.64, 1.48)	0.94 (0.63, 1.40)
High (\geq 0.86)	54/470	1.29 (0.87, 1.92)	1.25 (0.85, 1.84)
<i>P</i> for trend ^c		0.13	0.21

Abbreviations: Cd, cadmium; GDM, gestational diabetes mellitus; RR, risk ratio; SG, specific gravity.

^a Unadjusted risk ratio.

^b Adjusted for maternal age, education, fetal sex, parity, pre-pregnancy BMI, total arsenic level, and hypertensive disorder in pregnancy.

^c *P*-values for trend were derived using a continuous variable with the median value of each tertile.

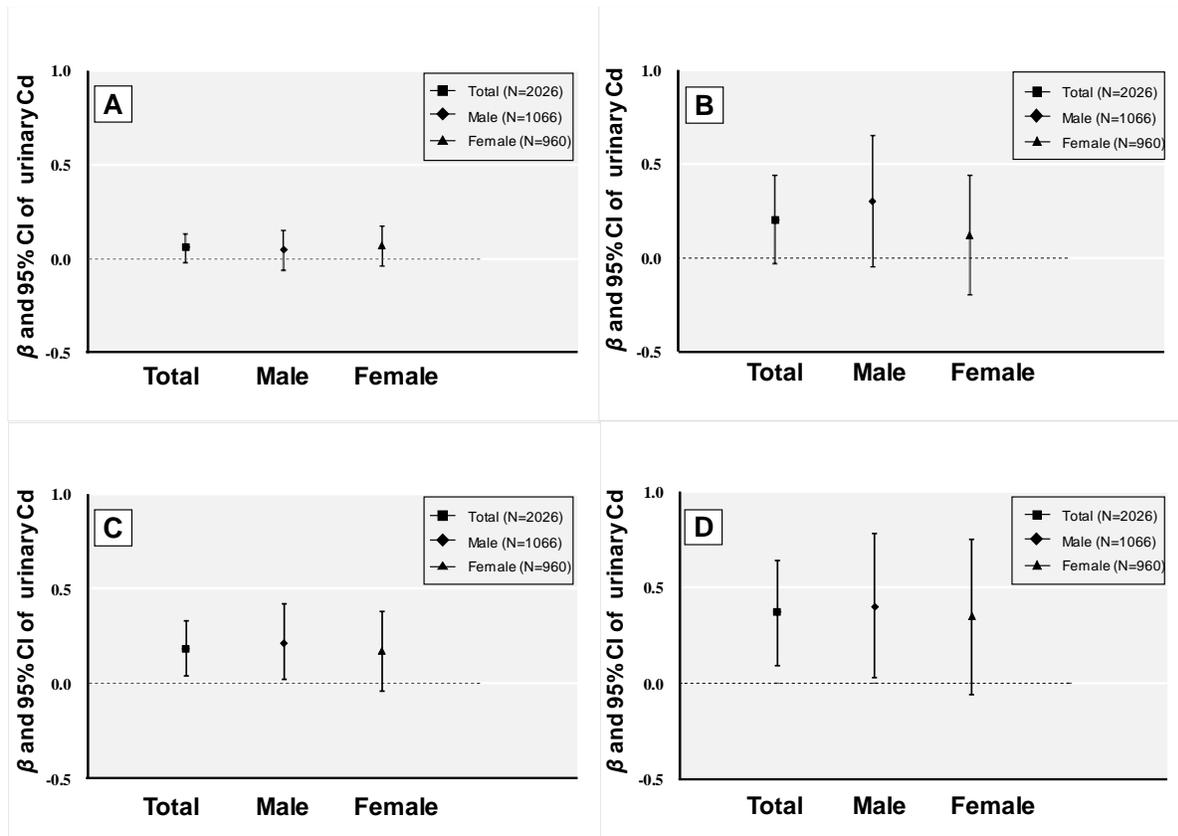


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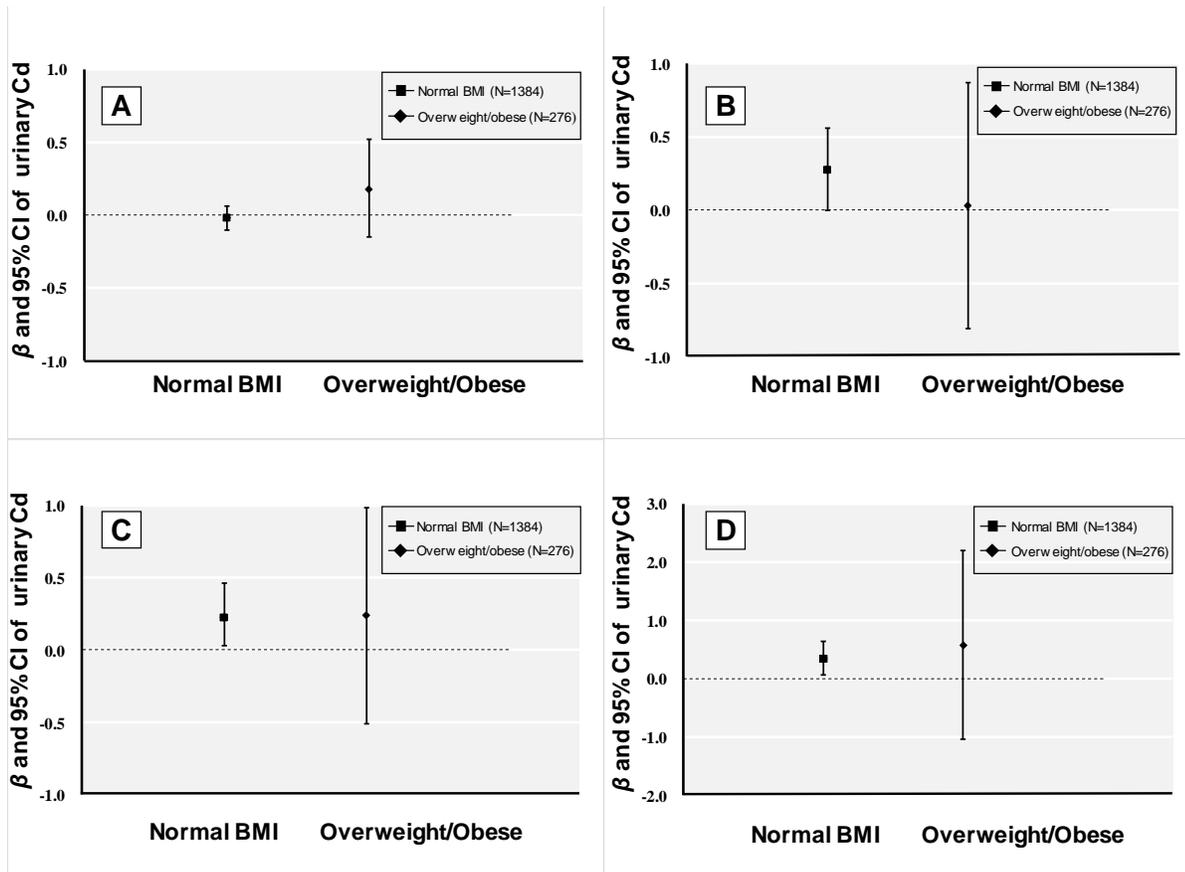


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