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Maternal urinary cadmium levels during pregnancy associated with risk of sex-dependent birth outcomes from an e-waste pollution site in China

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Highlights:

- (1) This is the first study, to report sex-specific differences in birth outcomes among women of childbearing age from an e-waste recycling area.
- (2) The maternal urine cadmium levels were much higher in Guiyu residents (e-waste contamination area) than control area. Our results found that elevated Cd concentrations are strongly influenced by e-waste recycling activities and residence in an e-waste area during pregnancy.
- (3) We found significant inverse associations between U-Cd concentrations and birth weight, length, Head Circumference and Apgar scores in female but only Apgar (1 min.) score in male neonates, suggesting an association between Cd and adverse birth outcomes may be sex-specific.

Abstract:

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