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| **Supplemental material 1. Percentage change in K-ARS scores associated with quartile increase of maternal blood cadmium.** |
|  |  **6-year-old boys** | **6-year-old girls** |
|  |  | **% change**  | **(95% CI)** | **p-value** | **% change**  | **(95% CI)** | **p-value** |
| **Total** | **Q1 vs Q2** | -19.7 | (-30.1, -7.8) | 0.1021 | 6.3 | (-10.2, 26) | 0.4755 |
|  | **Q1 vs Q3** | -2.8 | (-15.5, 11.6) | 0.6827 | 19.6 | (5.6, 34.2) | 0.0439 |
|  | **Q1 vs Q4** | 10.4 | (-3.5, 26.4) | 0.1498 | 35.3 | (15.5, 58.5) | 0.0002 |
| **Attention deficit (AD)** | **Q1 vs Q2** | -11.5 | (-26.4, 6.2) | 0.19 | 5.1 | (-8, 30.2) | 0.2182 |
|  | **Q1 vs Q3** | -5.2 | (-21.6, 14.6) | 0.5814 | 16 | (1.8, 44) | 0.3698 |
|  | **Q1 vs Q4** | 12 | (-6.6, 34.3) | 0.2218 | 42.4 | (15.4, 75.8) | 0.001 |
| **Hyperactivity disorder (HD)** | **Q1 vs Q2** | -25.4 | (-43.1, -13.1) | 0.0741 | 6.1 | (-10.2, 26) | 0.3469 |
|  | **Q1 vs Q3** | -0.2 | (-18.8, 22.4) | 0.9769 | 17.3 | (5.6, 34.2) | 0.0083 |
|  | **Q1 vs Q4** | 8.6 | (-11.2, 33) | 0.4208 | 38.4 | (15.5, 58.5) | 0.0591 |
| **The model was adjusted for parity, birth weight(kg), mother's BMI, mother's education, mother's age, and mother's passive smoking status.** |
| **Supplemental material 2. Percentage change in K-ARS scores associated with 2-fold increases in maternal blood lead and cadmium levels in 6-year old children.** |
|  | **Maternal blood lead** | **Maternal blood cadmium** |
|  | **Gender** | **% change**  | **(95% CI)** | **p-value** | **% change** | **(95% CI)** | **p-value** |
| **Total** | All | -9.7 | (-18.1, -0.4) | 0.1025 | 7.5 | (1, 14.4) | 0.0217\* |
|  | Boys | -7.5 | (-18.2, 4.5) | 0.2131 | 1.3 | (-7, 10.4) | 0.7669 |
|  | Girls | -27.3 | (-38.9, -13.5) | 0.1485 | 22.6 | (11.6, 34.7) | <.0001\* |
| **Attention deficit (AD)** | All | -1.3 | (-13.5, 12.4) | 0.8353 | 9.1 | (0.4, 18.5) | 0.038\* |
|  | Boys | -1.5 | (-16.3, 15.8) | 0.8505 | 3.6 | (-7.6, 16.3) | 0.5413 |
|  | Girls | -0.3 | (-20.7, 25.2) | 0.9763 | 21.1 | (7.1, 37) | 0.0023\* |
| **Hyperactivity disorder (HD)** | All | -19.5 | (-30.5, -6.7) | 0.1014 | 5.3 | (-4.1, 15.7) | 0.2767 |
|  | Boys | -7.9 | (-23.4, 10.5) | 0.3741 | -1.6 | (-13.6, 11.9) | 0.7966 |
|  | Girls | -36.5 | (-50.8, -18.1) | 0.4492 | 24.4 | (7.6, 43.9) | 0.0031\* |
| **The model was adjusted for child blood cadmium level at 6 years, gender (boy or girl), parity, birth weight(kg), mother's BMI, mother's education, mother's age, maternal blood lead, and mother's passive smoking status.****\*p-value < 0.05; #p-value < 0.1** |

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| **Supplemental material 3. Percentage change in K-ARS scores associated with 2-fold increases in maternal blood cadmium levels in 6-year old children. (excluded current smokers)** |
|  | **Gender** | **% change**  | **(95% CI)** | **p-value** |
| **Total** | All | 3.4 | (0.3, 13.2) | 0.5552 |
|  | Boys | 5.1 | (2.3, 14.6) | 0.9644 |
|  | Girls | 18.2 | (10.6, 31.2) | <.0310 |
| **Attention deficit (AD)** | All | 5.8 | (-0.6, 17) | 0.2252 |
|  | Boys | 2.8 | (-8.5, 11.8) | 0.8424 |
|  | Girls | 17.8 | (7.4, 36.8) | 0.0401 |
| **Hyperactivity disorder (HD)** | All | 3.4 | (-3.2, 15.1) | 0.5421 |
|  | Boys | -1.8 | (-11.8, 12.1) | 0.8524 |
|  | Girls | 19.3 | (5.1, 32.8) | 0.0202 |
| **The model was adjusted for gender (boy or girl), parity, birth weight(kg), mother's BMI, mother's education, mother's age, and mother's passive smoking status.****\*p-value < 0.05; #p-value < 0.1** |