Table S1. Crude odds ratios for associations between preterm birth (<37 weeks gestational age) and potential confounders in The National Birth Defects Prevention Study, 1997-2011

|  Covariate | N | Preterm | cOR (95% CI) |
| --- | --- | --- | --- |
| Total | 10 919 | 853 |  |
| Maternal age at conception |  |  |  |
|  16-19 | 1286 | 109 | 1.3 (1.0, 1.6) |
|  20-29 | 5707 | 459 | 1.2 (1.0, 1.4) |
|  30-39 | 3625 | 249 | 1.0 (Reference) |
|  40-49 | 166 | 21 | 2.0 (1.2, 3.2) |
| Race/Ethnicity |  |  |  |
|  White | 6373 | 463 | 1.0 (Reference) |
|  Black | 1173 | 132 | 1.6 (1.3, 2.0) |
|  Hispanic, US born | 1122 | 105 | 1.3 (1.1, 1.6) |
|  Hispanic, Foreign born | 1502 | 97 | 0.9 (0.7, 1.1) |
|  Other, US born | 378 | 36 | 1.3 (0.9, 1.9) |
|  Other, Foreign born | 323 | 18 | 0.8 (0.5, 1.2) |
| Education |  |  |  |
|  ≤High School | 4409 | 396 | 1.4 (1.2, 1.7) |
|  Some College | 2918 | 219 | 1.2 (0.9, 1.4) |
|  College or Higher | 3504 | 231 | 1.0 (Reference) |
| Pre-pregnancy BMI |  |  |  |
|  <18.5 | 567 | 56 | 1.4 (1.0, 1.8) |
|  18.5-<25 | 5635 | 418 | 1.0 (Reference) |
|  25-<30 | 2390 | 185 | 1.0 (0.9, 1.3) |
|  ≥30 | 1884 | 162 | 1.2 (1.0, 1.4) |
| Maternal height (cm) |  |  |  |
|  ≤158 | 2770 | 232 | 1.0 (Reference) |
|  159-≤163 | 2750 | 230 | 1.0 (0.8, 1.2) |
|  164-≤171 | 2466 | 202 | 1.0 (0.8, 1.2) |
|  ≥172 | 2528 | 160 | 0.7 (0.6, 0.9) |
| Previous live births |  |  |  |
|  0 | 4332 | 347 | 1.2 (1.0, 1.4) |
|  1 | 3574 | 249 | 1.0 (Reference) |
|  2 | 1867 | 141 | 1.1 (0.9, 1.4) |
|  3+ | 1143 | 115 | 1.5 (1.2, 1.9) |
| Smoking during pregnancy |  |  |  |
|  No  | 8905 | 669 | 1.0 (Reference) |
|  Yes | 1964 | 182 | 1.3 (1.1, 1.5) |
| Alcohol use (1st trimester) |  |  |  |
|  No | 6813 | 567 | 1.0 (Reference) |
|  Yes | 4021 | 279 | 0.8 (0.7, 1.0) |
| Hypertension |  |  |  |
|  No | 9463 | 652 | 1.0 (Reference) |
|  Yes, without medication | 990 | 122 | 1.9 (1.5, 2.3) |
|  Yes, with medication | 195 | 43 | 3.8 (2.7, 5.4) |
| Gestational diabetes |  |  |  |
|  No | 10 331 | 797 | 1.0 (Reference) |
|  Yes | 494 | 48 | 1.3 (0.9, 1.7) |
| Calories (kcal) |  |  |  |
|  ≤1130.9 | 2517 | 193 | 1.1 (0.9, 1.4) |
|  >1130.9-≤1487.9 | 2787 | 193 | 1.0 (Reference) |
|  >1487.9-≤1972.1 | 2819 | 225 | 1.2 (1.0, 1.4) |
|  >1972.1 | 2796 | 242 | 1.3 (1.0, 1.6) |
| Carbohydrates (grams) |  |  |  |
|  ≤145.3 | 2519 | 190 | 1.1 (0.9, 1.3) |
|  >145.3-≤200.0 | 2803 | 201 | 1.0 (Reference) |
|  >200.0-≤280.0 | 2795 | 219 | 1.1 (0.9, 1.3) |
|  >280.0 | 2802 | 243 | 1.2 (1.0, 1.5) |

cOR, crude odds ratio; CI, confidence interval

Table S2. Crude odds ratios for associations between small for gestational age infants (SGA; birthweight <10th percentile for gestational age and infant sex) and potential confounders in The National Birth Defects Prevention Study, 1997-2011

|  Covariate | Na | SGA | cOR (95% CI) |
| --- | --- | --- | --- |
| Total | 10 716 | 828 |  |
| Maternal age at conception |  |  |  |
|  16-19 | 1260 | 148 | 2.2 (1.7, 2.7) |
|  20-29 | 5596 | 433 | 1.4 (1.2, 1.6) |
|  30-39 | 3567 | 206 | 1.0 (Reference) |
|  40-49 | 163 | 21 | 2.4 (1.5, 3.9) |
| Race/Ethnicity |  |  |  |
|  White | 6252 | 375 | 1.0 (Reference) |
|  Black | 1157 | 161 | 2.5 (2.1, 3.1) |
|  Hispanic, US born | 1101 | 90 | 1.4 (1.1, 1.8) |
|  Hispanic, Foreign born | 1468 | 127 | 1.5 (1.2, 1.8) |
|  Other, US born | 370 | 35 | 1.6 (1.1, 2.4) |
|  Other, Foreign born | 321 | 37 | 2.0 (1.4, 2.9) |
| Education |  |  |  |
|  ≤High School | 4317 | 425 | 2.0 (1.6, 2.3) |
|  Some College | 2859 | 216 | 1.5 (1.2, 1.8) |
|  College or Higher | 3454 | 183 | 1.0 (Reference) |
| Pre-pregnancy BMI |  |  |  |
|  <18.5 | 553 | 75 | 1.7 (1.3, 2.2) |
|  18.5-<25 | 5537 | 462 | 1.0 (Reference) |
|  25-<30 | 2352 | 145 | 0.7 (0.6, 0.9) |
|  ≥30 | 1846 | 111 | 0.7 (0.6, 0.9) |
| Maternal height (cm) |  |  |  |
|  ≤158 | 2725 | 310 | 1.0 (Reference) |
|  159-≤163 | 2702 | 222 | 0.7 (0.6, 0.8) |
|  164-≤171 | 2426 | 146 | 0.5 (0.4, 0.6) |
|  ≥172 | 2469 | 117 | 0.4 (0.3, 0.5) |
| Previous live births |  |  |  |
|  0 | 4259 | 425 | 1.6 (1.3, 1.9) |
|  1 | 3507 | 231 | 1.0 (Reference) |
|  2 | 1836 | 108 | 0.9 (0.7, 1.1) |
|  3+ | 1111 | 63 | 0.9 (0.6, 1.1) |
| Smoking during pregnancy |  |  |  |
|  No  | 8732 | 630 | 1.0 (Reference) |
|  Yes | 1934 | 196 | 1.5 (1.2, 1.7) |
| Hypertension |  |  |  |
|  None | 9290 | 697 | 1.0 (Reference) |
|  Yes, without medication | 968 | 89 | 1.2 (1.0, 1.6) |
|  Yes, with medication | 189 | 22 | 1.6 (1.0, 2.6) |
| Gestational diabetes |  |  |  |
|  No | 10 143 | 793 | 1.0 (Reference) |
|  Yes | 483 | 30 | 0.8 (0.5, 1.1) |
| Household size |  |  |  |
|  1-2  | 3557 | 316 | 1.0 (Reference) |
|  3-4  | 4934 | 358 | 0.8 (0.7, 0.9) |
|  5-6  | 1114 | 75 | 0.7 (0.6, 1.0) |
|  7+  | 237 | 14 | 0.6 (0.4, 1.1) |
| Calories (daily kcal) |  |  |  |
|  ≤1130.9 | 2473 | 176 | 1.0 (0.8, 1.2) |
|  >1130.9-≤1487.9 | 2751 | 195 | 1.0 (Reference) |
|  >1487.9-≤1972.1 | 2755 | 207 | 1.1 (0.9, 1.3) |
|  >1972.1 | 2737 | 250 | 1.3 (1.1, 1.6) |
| Carbohydrates (daily grams) |  |  |  |
|  ≤145.3 | 2480 | 162 | 0.9 (0.7, 1.1) |
|  >145.3-≤200.0 | 2767 | 199 | 1.0 (Reference) |
|  >200.0-≤280.0 | 2724 | 208 | 1.1 (0.9, 1.3) |
|  >280.0 | 2745 | 259 | 1.3 (1.1, 1.6) |
| Dietary iron (daily milligrams) |  |  |  |
|  ≤7.9 | 2552 | 182 | 1.0 (Reference) |
|  >7.9-≤11.9 | 2701 | 202 | 1.1 (0.9, 1.3) |
|  >11.9-≤17.1 | 2745 | 209 | 1.1 (0.9, 1.3) |
|  >17.1 | 2718 | 235 | 1.2 (1.0, 1.5) |

cOR, crude odds ratio; CI, confidence interval

a SGA analysis n=10 716; 203 infants missing birth weight (n=145), infant sex (n=10), or with gestational age outside the range (<24 or >42 weeks) with reference values (n=48) were excluded.