

Table S1 Odds ratios (ORs) and 95% confidence intervals (CIs) for preterm birth in relation to maternal and infants' characteristics

| | Pre-term n (%) | Full-term n (%) | Unadjusted OR (95% CI) | <i>P</i> | Adjusted OR (95% CI)* | <i>P</i> * |
|------------------------|-------------------|--------------------|---------------------------|----------|--------------------------|------------|
| Age at delivery | | | | | | |
| <25 | 3091 (3.62) | 82224 (96.38) | 0.69(0.66,0.72) | <0.001 | 0.79(0.76,0.83) | <0.001 |
| 25~34 | 11055 (5.17) | 202692 (94.83) | 1.00(Reference) | | 1.00(Reference) | |
| ≥35 | 1743 (9.47) | 16658 (90.53) | 1.93(1.83,2.03) | <0.001 | 1.69(1.59,1.78) | <0.001 |
| Education level | | | | | | |
| Less than high school | 3519 (4.55) | 73737 (95.45) | 0.97(0.925,1.01) | 0.1339 | 0.91(0.87,0.95) | <0.001 |
| High school | 5010 (4.71) | 101458 (95.29) | 1.00(Reference) | | 1.00(Reference) | |
| College | 7360 (5.50) | 126379 (94.50) | 1.18(1.14,1.22) | <0.001 | 1.16(1.12,1.21) | <0.001 |
| Offspring sex | | | | | | |
| Male | 9188 (5.41) | 160671 (94.59) | 1.00(Reference) | | 1.00(Reference) | |
| Female | 6701 (4.54) | 140903 (95.46) | 0.83(0.81,0.86) | <0.001 | 0.84(0.82,0.87) | <0.001 |
| Parity | | | | | | |
| Nullipara | 11948 (4.65) | 245121 (95.35) | 1.00(Reference) | | 1.00(Reference) | |
| Multipara | 3941 (6.55) | 56453 (93.47) | 1.4(1.38,1.49) | <0.001 | 1.14(1.09,1.20) | <0.001 |

Gravidity

| | | | | | | |
|----|--------------|----------------|-----------------|--------|------------------|--------|
| <3 | 11471 (4.59) | 238259 (95.41) | 1.00(Reference) | | 1.00(Reference) | |
| ≥3 | 4418 (6.52) | 63315 (93.48) | 1.45(1.40,1.50) | <0.001 | 1.211(1.16,1.27) | <0.001 |

Pre-pregnancy**BMI(kg/m²)**

| | | | | | | |
|----------------------|--------------|----------------|-----------------|--------|-----------------|--------|
| Under weight (<18.5) | 3118 (4.21) | 70916 (95.79) | 0.83(0.80,0.86) | <0.001 | 0.90(0.86,0.94) | <0.001 |
| Normal (18.5~23.9) | 11083 (5.03) | 209246 (94.97) | 1.00(Reference) | | 1.00(Reference) | |
| Overweight(24~27.9) | 1360 (6.94) | 18226 (93.06) | 1.41(1.33,1.50) | <0.001 | 1.32(1.25,1.40) | <0.001 |
| Obese(≥28) | 328 (9.33) | 3186 (90.67) | 1.96(1.75,2.20) | <0.001 | 1.86,1.66,2.09) | <0.001 |

Vomiting

| | | | | | | |
|-----|--------------|----------------|------------------|--------|------------------|--------|
| Yes | 4978 (5.25) | 89879 (94.75) | 1.08(1.04, 1.11) | | 1.05(1.02, 1.09) | |
| No | 10911 (4.90) | 211695 (95.10) | 1.00(Reference) | <0.001 | 1.00(Reference) | 0.0048 |

* Age at delivery, educational level, offspring sex, parity, gravidity, pre-pregnancy BMI, and vomiting in the first trimester were mutually adjusted.