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| **S3 Table. Sensitivity analysis on associations between elective and nonelective cesarean section as compared with vaginal delivery of underweight, overweight, and obesity relative to normal weight.** |
|  | **Model 1 (*N* = 97,291)** |  | **Model 2 (*N* = 96,050)** |  | **Model 3 (*N* = 97,291)** |  | **Model 4 (*N* = 97,353)** |  | **Model 5 (*N* = 97,291)** |
|  | **RRR** | **95% CI** | ***p*** |  | **RRR** | **95% CI** | ***p*** |  | **RRR** | **95% CI** | ***p*** |  | **RRR** | **95% CI** | ***p*** |  | **RRR** | **95% CI** | ***p*** |
| **Underweight versus normal weight**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vaginal* | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |
| *Elective cesarean section* | 0.87 | 0.76–1.01 | 0.063 |  | 0.87 | 0.76–1.01 | 0.066 |  | 0.90 | 0.78–1.05 | 0.175 |  | 0.88 | 0.76–1.01 | 0.072 |  | 0.88 | 0.76–1.01 | 0.071 |
| *Nonelective cesarean section* | 0.94 | 0.81–1.08 | 0.350 |  | 0.94 | 0.82–1.09 | 0.432 |  | 0.94 | 0.82–1.08 | 0.407 |  | 0.94 | 0.81–1.08 | 0.358 |  | 0.92 | 0.80–1.06 | 0.272 |
| **Overweight versus normal weight**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vaginal* | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |
| *Elective cesarean section* | 0.99 | 0.90–1.08 | 0.790 |  | 0.97 | 0.89–1.06 | 0.542 |  | 0.97 | 0.88–1.07 | 0.581 |  | 0.99 | 0.90–1.08 | 0.817 |  | 0.98 | 0.89–1.07 | 0.592 |
| *Nonelective cesarean section* | 0.99 | 0.90–1.08 | 0.755 |  | 0.97 | 0.88–1.06 | 0.443 |  | 0.98 | 0.90–1.07 | 0.707 |  | 0.99 | 0.90–1.08 | 0.767 |  | 0.98 | 0.90–1.08 | 0.706 |
| **Obese versus normal weight** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vaginal* | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |  | 1 | - | - |
| *Elective cesarean section* | 1.01 | 0.88–1.17 | 0.859 |  | 0.99 | 0.85–1.15 | 0.895 |  | 1.05 | 0.90–1.22 | 0.565 |  | 1.01 | 0.87–1.17 | 0.895 |  | 1.01 | 0.87–1.17 | 0.930 |
| *Nonelective cesarean section* | 0.95 | 0.82–1.09 | 0.465 |   | 0.93 | 0.81–1.08 | 0.346 |   | 0.96 | 0.83–1.11 | 0.587 |   | 0.95 | 0.82–1.09 | 0.476 |   | 0.94 | 0.82–1.09 | 0.439 |
| Empty cells (-) indicate reference group. |
| Model 1: Adjusted for confounders + Cubic transformed maternal age and maternal body mass index. |
| Model 2: Adjusted for confounders + Gestational weight gain z-score |
| Model 3: Adjusted for confounders + Previous cesarean delivery. |
| Model 4: Adjusted for confounders + including those with extreme values excluded from analytical cohort. |
| Model 5: Adjusted for confounders + Relaxed linearity of maternal age, maternal BMI, gestational age and birth weight standardized according to gestational age, using restricted cubic splines with 5 knots at: 5 27.5 50 72.5 95 percentiles. |
| Abbreviations: CI, confidence interval; RRR, relative risk ratio. |