**Supplementary Table 1. Sensitivity analysis of the association between interpregnancy interval and maternal complications after prior cesarean delivery (excluding <18 months group)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Complications of second pregnancy** | **18-23 months (n=250)** | | **24-59 months (n=1391)** | **≥60 months (n=96)** | |
| **OR (95% CI)** | **P** | **OR** | **OR (95% CI)** | **P** |
| GDM |  |  |  |  |  |
| Crude | 0.621 (0.435~0.887) | 0.009 | 1 | 1.114 (0.695~1.787) | 0.653 |
| Adjusted | 0.625 (0.427~0.914) | 0.015 | 1 | 0.880 (0.532~1.456) | 0.619 |
| Gestational hypertension |  |  |  |  |  |
| Crude | 0.615 (0.292~1.293) | 0.2 | 1 | 1.462 (0.653~3.273) | 0.355 |
| Adjusted | 0.648 (0.294~1.428) | 0.281 | 1 | 1.101 (0.453~2.679) | 0.831 |
| Preeclampsia |  |  |  |  |  |
| Crude | 1.115 (0.423~2.941) | 0.826 | 1 | 3.002 (1.123~8.026) | 0.028 |
| Adjusted | 0.932 (0.293~2.959) | 0.904 | 1 | 2.224 (0.772~6.407) | 0.139 |
| Oligohydramnios |  |  |  |  |  |
| Crude | 2.328 (0.955~5.674) | 0.063 | 1 | 0.851 (0.112~6.462) | 0.876 |
| Adjusted | 2.488 (0.991~6.245) | 0.052 | 1 | 0.873 (0.113~6.740) | 0.897 |
| Placenta accreta |  |  |  |  |  |
| Crude | 0.792 (0.275~2.276) | 0.664 | 1 | 3.829 (1.627~9.007) | 0.002 |
| Adjusted | 0.848 (0.281~2.555) | 0.769 | 1 | 3.045 (1.214~7.637) | 0.018 |

**Supplementary Table 2. Sensitivity analysis of the association between interpregnancy interval and pregnancy outcomes after prior cesarean delivery (excluding <18 months group)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Complications of second pregnancy** | **18-23 months (n=250)** | | **24-59 months (n=1391)** | **≥60 months (n=96)** | |
| **OR (95% CI)** | **P** | **OR** | **OR (95% CI)** | **P** |
| PROM |  |  |  |  |  |
| Crude | 0.744 (0.391~1.418) | 0.369 | 1 | 2.310 (1.212~4.404) | 0.011 |
| Adjusted | 0.844 (0.435~1.637) | 0.616 | 1 | 1.954 (0.987~3.868) | 0.054 |
| Postpartum hemorrhage |  |  |  |  |  |
| Crude | 2.473 (1.330~4.599) | 0.004 | 1 | 0.408 (0.055~3.009) | 0.379 |
| Adjusted | 2.239 (1.139~4.401) | 0.019 | 1 | 0.346 (0.046~2.587) | 0.301 |
| Preterm birth |  |  |  |  |  |
| Crude | 0.823 (0.418~1.623) | 0.575 | 1 | 2.557 (1.303~5.019) | 0.006 |
| Adjusted | 0.881 (0.428~1.813) | 0.731 | 1 | 1.808 (0.872~3.746) | 0.111 |
| Macrosomia |  |  |  |  |  |
| Crude | 0.791 (0.307~2.038) | 0.627 | 1 | 0.408 (0.055~3.009) | 0.379 |
| Adjusted | 0.777 (0.297~2.035) | 0.607 | 1 | 0.435 (0.058~3.241) | 0.417 |
| Fetal distress |  |  |  |  |  |
| Crude | 1.665 (1.044~2.656) | 0.032 | 1 | 2.559 (1.395~4.695) | 0.002 |
| Adjusted | 1.889 (1.154~3.092) | 0.011 | 1 | 2.038 (1.050~3.954) | 0.035 |

**Supplementary Table 3. Sensitivity analysis of the association between interpregnancy interval and maternal complications after prior cesarean delivery (excluding ≥60 months group)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Complications of second pregnancy** | **<18 months (n=66)** | | **18-23 months (n=250)** | | **24-59 months (n=1391)** |
| **OR (95% CI)** | **P** | **OR (95% CI)** | **P** | **OR** |
| GDM |  |  |  |  |  |
| Crude | 0.565 (0.285~1.120) | 0.102 | 0.621 (0.435~0.887) | 0.009 | 1 |
| Adjusted | 0.574 (0.282~1.169) | 0.126 | 0.630 (0.431~0.921) | 0.017 | 1 |
| Gestational hypertension |  |  |  |  |  |
| Crude | 3.320 (1.626~6.780) | 0.001 | 0.615 (0.292~1.293) | 0.200 | 1 |
| Adjusted | 4.398 (2.074~9.326) | <0.001 | 0.715 (0.330~1.551) | 0.396 | 1 |
| Preeclampsia |  |  |  |  |  |
| Crude | 0.841 (0.112~6.300) | 0.866 | 1.115 (0.423~2.941) | 0.826 | 1 |
| Adjusted | 0.637 (0.072~5.667) | 0.686 | 0.928 (0.291~2.957) | 0.900 | 1 |
| Oligohydramnios |  |  |  |  |  |
| Crude | 3.849 (1.099~13.475) | 0.035 | 2.328 (0.955~5.674) | 0.063 | 1 |
| Adjusted | 3.833 (1.064~13.810) | 0.04 | 2.501 (0.997~6.273) | 0.051 | 1 |
| Placenta accreta |  |  |  |  |  |
| Crude | 2.318 (0.686~7.829) | 0.176 | 0.792 (0.275~2.276) | 0.664 | 1 |
| Adjusted | 2.096 (0.578~7.605) | 0.260 | 0.805 (0.265~2.445) | 0.702 | 1 |

**Supplementary Table 4. Sensitivity analysis of the association between interpregnancy interval and pregnancy outcomes after prior cesarean delivery (excluding ≥60 months group)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Complications of second pregnancy** | **<18 months (n=66)** | | **18-23 months (n=250)** | | **24-59 months (n=1391)** |
| **OR (95% CI)** | **P** | **OR (95% CI)** | **P** | **OR** |
| PROM |  |  |  |  |  |
| Crude | 2.231 (1.030~4.830) | 0.042 | 0.744 (0.391~1.418) | 0.369 | 1 |
| Adjusted | 2.399 (1.085~5.304) | 0.031 | 0.860 (0.445~1.662) | 0.653 | 1 |
| Postpartum hemorrhage |  |  |  |  |  |
| Crude | 1.211 (0.285~5.145) | 0.796 | 2.473 (1.330~4.599) | 0.004 | 1 |
| Adjusted | 1.059 (0.238~4.714) | 0.94 | 2.226 (1.127~4.395) | 0.021 | 1 |
| Preterm birth |  |  |  |  |  |
| Crude | 1.620 (0.630~4.164) | 0.317 | 0.823 (0.418~1.623) | 0.575 | 1 |
| Adjusted | 1.579 (0.586~4.258) | 0.367 | 0.912 (0.447~1.860) | 0.8 | 1 |
| Macrosomia |  |  |  |  |  |
| Crude | 1.845 (0.552~6.161) | 0.32 | 0.791 (0.307~2.038) | 0.627 | 1 |
| Adjusted | 1.819 (0.535~6.178) | 0.338 | 0.785 (0.300~2.056) | 0.622 | 1 |
| Fetal distress |  |  |  |  |  |
| Crude | 2.067 (0.957~4.467) | 0.065 | 1.665 (1.044~2.656) | 0.032 | 1 |
| Adjusted | 2.286 (1.032~5.061) | 0.041 | 1.907 (1.167~3.114) | 0.01 | 1 |