**Supplemental Digital Content 2. Association between neuraxial labor analgesia and neonatal morbidity accounting for clustering by United States county of birth**

|  |  |  |
| --- | --- | --- |
|  | **Neonatal Morbidity (Primary outcome)**  | **Neonatal Morbidity Excluding Neonatal Intensive Care Admission and Neonatal Transfer (Secondary Outcome)**  |
|  | **Unadjusted RR** **(95% CI)** | ***P*-value** | **Adjusted RR (95% CI)a** | ***P*-value** | **Unadjusted RR (95% CI)** | ***P*-value** | **Adjusted RR (95% CI)a** | ***P*-value** |
| Operative vaginal deliveries | 1.25 (1.18-1.32) | <0.001 | 1.18 (1.12-1.25) | <0.001 | 1.16 (1.08-1.24) | <0.001 | 1.09 (1.02-1.17) | 0.014 |
| Restricted to birthweight <4000 g | 1.24 (1.17-1.32) | <0.001 | 1.18 (1.11-1.25) | <0.001 | 1.15 (1.07-1.24) | <0.001 | 1.08 (1.01-1.16) | 0.033 |
| Stratified analyses |  |  |  |  |  |  |  |  |
| Forceps  | 1.61 (1.35-1.92) | <0.001 | 1.49 (1.25-1.77) | <0.001 | 1.52 (1.21-1.90) | <0.001 | 1.41 (1.12-1.77) | 0.004 |
| Vacuum  | 1.21 (1.14-1.28) | <0.001 | 1.15 (1.08-1.22) | <0.001 | 1.12 (1.05-1.20) | 0.001 | 1.06 (0.98-1.14) | 0.125 |

a Adjusted for maternal age, race, highest educational level, insurance, onset of prenatal care, body mass index, prior live births, prior cesarean, pre-existing or gestational diabetes, pregnancy-induced hypertension or preeclampsia, induction of labor, labor augmentation, and gestational age.

RR, relative risk; CI, confidence interval.