

Web Materials

Web Table 1. Gestational age bias-corrected risk estimates for neonatal outcomes in the preterm birth-to-outcome pathway (n=26,123) ^a

| Neonatal outcome | Adjusted RR | $\pi_{11}=0.05, \pi_{01}=0.50$ | | | $\pi_{11}=0.10, \pi_{01}=0.75$ | | | $\pi_{11}=0.15, \pi_{01}=0.80$ | | |
|--------------------------------------|-------------|--------------------------------|-----|------|--------------------------------|------|------|--------------------------------|-----|------|
| | | Odds of Preterm Birth | | | Odds of Preterm Birth | | | Odds of Preterm Birth | | |
| | | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 |
| Composite Perinatal-Neonatal Outcome | 1.3 | 1.9 | 3.3 | 4.9 | 2.1 | 3.7 | 5.3 | 2.0 | 3.4 | 4.5 |
| Newborn Resuscitation | 1.3 | 1.9 | 3.3 | 4.9 | 2.1 | 3.7 | 5.3 | 2.0 | 3.4 | 4.5 |
| NICU Admission | 1.5 | 2.1 | 3.8 | 5.7 | 2.4 | 4.3 | 6.1 | 2.3 | 3.9 | 5.2 |
| NICU LOS | 1.4 | 2.0 | 3.5 | 5.3 | 2.2 | 4.0 | 5.7 | 2.2 | 3.7 | 4.9 |
| Respiratory Distress Syndrome | 2.1 | 3.0 | 5.3 | 8.0 | 3.3 | 6.0 | 8.6 | 3.3 | 5.5 | 7.3 |
| Apnea | 1.9 | 2.7 | 4.8 | 7.2 | 3.0 | 5.4 | 7.8 | 3.0 | 5.0 | 6.6 |
| Asphyxia | 3.7 | 5.3 | 9.3 | 14.0 | 5.9 | 10.6 | 15.1 | 5.8 | 9.7 | 12.9 |
| Antepartum or Intrapartum Stillbirth | 1.7 | 2.4 | 4.3 | 6.4 | 2.7 | 4.9 | 6.9 | 2.7 | 4.5 | 5.9 |
| Neonatal Mortality ≤ 28 days | 2.4 | 3.4 | 6.0 | 9.1 | 3.8 | 6.9 | 9.8 | 3.8 | 6.3 | 8.4 |

Abbreviations: LOS, length of stay; NICU, neonatal intensive care unit; RR, relative risk

^a Risk estimates are adjusted for unmeasured common causes (confounding) of preterm birth and the specified outcomes. π_{11} = Estimated prevalence of unmeasured causes of preterm birth in the abruption group; π_{01} = Estimate prevalence of unmeasured causes of preterm birth in the non-abruption group. For newborn resuscitation under “2.0” in the first column, the scenario is that 5% of the abruption group and 50% of the non-abruption group have unmeasured common causes (confounding) of preterm birth and newborn resuscitation and that these unmeasured causes result in a 2-fold increase in risk for newborn resuscitation. In this scenario, the original adjusted risk for newborn resuscitation was RR=1.3 and the bias factor yielded a corrected RR=1.9.

Web Table 2. Birthweight bias-corrected risk estimates for neonatal outcomes in the SGA-to-outcome pathway (n=24,752) ^a

| Variable | $\pi_{11}=0.05, \pi_{01}=0.50$ | | | $\pi_{11}=0.10, \pi_{01}=0.75$ | | | $\pi_{11}=0.15, \pi_{01}=0.80$ | | | |
|--------------------------------------|--------------------------------|-------------|------|--------------------------------|-------------|------|--------------------------------|-------------|------|------|
| | Adjusted RR | Odds of SGA | | | Odds of SGA | | | Odds of SGA | | |
| | | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 | 2.0 | 5.0 | 10.0 |
| Composite Perinatal-Neonatal Outcome | 1.6 | 2.3 | 4.0 | 6.1 | 2.5 | 4.6 | 6.5 | 2.5 | 4.2 | 5.6 |
| Newborn Resuscitation | 1.5 | 2.1 | 3.8 | 5.7 | 2.4 | 4.3 | 6.1 | 2.3 | 3.9 | 5.2 |
| NICU Admission | 2.1 | 3.0 | 5.3 | 8.0 | 3.3 | 6.0 | 8.6 | 3.3 | 5.5 | 7.3 |
| NICU LOS | 1.4 | 2.0 | 3.5 | 5.3 | 2.2 | 4.0 | 5.7 | 2.2 | 3.7 | 4.9 |
| Respiratory Distress Syndrome | 3.5 | 5.0 | 8.8 | 13.3 | 5.6 | 10.0 | 14.3 | 5.5 | 9.2 | 12.2 |
| Apnea | 2.5 | 3.6 | 6.3 | 9.5 | 4.0 | 7.1 | 10.2 | 3.9 | 6.6 | 8.7 |
| Asphyxia | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Antepartum or intrapartum stillbirth | 4.4 | 6.3 | 11.0 | 16.7 | 7.0 | 12.6 | 17.9 | 6.9 | 11.6 | 15.4 |
| Neonatal Mortality ≤ 28 days | 4.6 | 6.6 | 11.5 | 17.4 | 7.3 | 13.1 | 18.8 | 7.2 | 12.1 | 16.1 |

Abbreviations: LOS, length of stay; NICU, neonatal intensive care unit; RR, relative risk

^a Risk estimates are adjusted for unmeasured common causes (confounding) of low birthweight and the specified outcomes. π_{11} = Estimated prevalence of unmeasured causes of low birthweight in the abruption group, π_{01} = Estimate prevalence of unmeasured causes of low birthweight in the non-abruption group. For newborn resuscitation under “2.0” in the first column, the scenario is that 5% of the abruption group and 50% of the non-abruption group have unmeasured common causes (confounding) of low birthweight and newborn resuscitation and that these unmeasured causes result in a 2-fold increase in risk for newborn resuscitation. In this scenario, the original adjusted risk for newborn resuscitation was RR=1.5 and the bias factor yielded a corrected RR=2.1.