### **Appendix Table 1.** Cause-specific infant mortality rates in Regions IV/VI states compared to other regions, 2007−2009

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Other regions |  | Region IV states | | | | | | | |  | Region VI states | | | | |  | Regions IV/VI total |
|  |  |  | AL | FL | GA | KY | MS | NC | SC | TN |  | AR | LA | NM | OK | TX |  |  |
| Cause-specific IMR per 1000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | 2.26 |  | **3.47** | **2.64** | **2.82** | **1.82** | **3.13** | **3.29** | **2.68** | **2.64** |  | 2.02 | **3.22** | **1.68** | 2.30 | **1.96** |  | **2.52** |
| Other perinatal conditions | 0.89 |  | **1.13** | 0.86 | **1.16** | 0.81 | **1.25** | 0.96 | **1.20** | **1.18** |  | **1.10** | 0.80 | 0.79 | 0.95 | **0.79** |  | **0.94** |
| Congenital anomalies | 1.27 |  | **1.57** | **1.38** | 1.28 | **1.51** | **1.80** | **1.55** | 1.28 | **1.51** |  | 1.41 | 1.43 | 1.27 | **1.83** | **1.38** |  | **1.44** |
| SUID | 0.84 |  | **1.54** | **0.94** | **1.15** | **1.39** | **2.22** | **1.22** | **1.41** | **1.44** |  | **1.89** | **1.85** | 0.89 | **1.59** | **1.08** |  | **1.26** |
| Infection | 0.20 |  | **0.33** | **0.29** | **0.28** | 0.23 | **0.38** | **0.26** | 0.25 | **0.27** |  | 0.28 | **0.45** | 0.23 | 0.26 | **0.24** |  | **0.28** |
| Injury | 0.22 |  | **0.30** | **0.32** | **0.29** | **0.37** | 0.26 | 0.26 | **0.31** | **0.39** |  | 0.30 | **0.43** | 0.30 | **0.34** | **0.17** |  | **0.28** |
| All other causes | 0.51 |  | **0.89** | **0.65** | **0.79** | **0.69** | **0.96** | **0.70** | **0.73** | **0.72** |  | 0.59 | **0.83** | 0.52 | 0.57 | 0.53 |  | **0.67** |
| Total excess death rate compared to other regions |  |  | **3.05** | **0.90** | **1.59** | **0.62** | **3.82** | **2.04** | **1.67** | **1.96** |  | **1.40** | **2.82** | **−0.51** | **1.64** | −0.05 |  | **1.18** |
| % of excess deaths by cause |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | − |  | 40% | 42% | 35% | −71% | 23% | 51% | 25% | 19% |  | −17% | 34% | − | 2% | − |  | 22% |
| Other perinatal conditions | − |  | 8% | −3% | 17% | −12% | 9% | 3% | 18% | 15% |  | 15% | −3% | − | 4% | − |  | 4% |
| Congenital anomalies | − |  | 10% | 12% | 1% | 37% | 14% | 13% | 1% | 12% |  | 10% | 5% | − | 34% | − |  | 14% |
| SUID | − |  | 23% | 12% | 20% | 90% | 36% | 19% | 34% | 31% |  | 76% | 36% | − | 46% | − |  | 36% |
| Infection | − |  | 4% | 10% | 5% | 4% | 5% | 3% | 3% | 4% |  | 5% | 9% | − | 4% | − |  | 6% |
| Injury | − |  | 3% | 11% | 5% | 24% | 1% | 2% | 6% | 9% |  | 6% | 8% | − | 7% | − |  | 5% |
| All other causes | − |  | 12% | 15% | 18% | 28% | 12% | 9% | 13% | 11% |  | 5% | 11% | − | 4% | − |  | 13% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NH white cause-specific IMR per 1000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | 1.71 |  | **2.28** | 1.74 | 1.66 | 1.60 | 1.64 | **2.01** | 1.55 | 1.69 |  | **1.42** | 1.71 | 2.05 | 1.88 | **1.44** |  | 1.70 |
| Other perinatal conditions | 0.75 |  | 0.85 | **0.63** | 0.83 | 0.82 | 0.81 | 0.71 | 0.85 | 0.88 |  | **1.03** | **0.58** | 0.84 | 0.93 | 0.70 |  | 0.77 |
| Congenital anomalies | 1.17 |  | **1.59** | 1.23 | 1.18 | **1.54** | **1.78** | 1.29 | 1.18 | **1.35** |  | **1.45** | **1.49** | 0.97 | **1.81** | 1.28 |  | **1.36** |
| SUID | 0.79 |  | **1.60** | **0.95** | **1.09** | **1.32** | **1.95** | **1.14** | **1.41** | **1.33** |  | **1.77** | **1.78** | 0.95 | **1.45** | **1.19** |  | **1.28** |
| Infection | 0.16 |  | **0.27** | 0.20 | 0.18 | 0.21 | 0.18 | 0.19 | 0.15 | 0.19 |  | 0.16 | **0.29** | \* | 0.23 | 0.19 |  | **0.20** |
| Injury | 0.20 |  | 0.28 | **0.34** | 0.21 | **0.36** | 0.23 | 0.18 | 0.25 | **0.33** |  | 0.25 | **0.36** | \* | 0.28 | 0.18 |  | **0.26** |
| All other causes | 0.45 |  | **0.66** | 0.40 | **0.57** | **0.68** | **0.64** | 0.46 | 0.49 | **0.61** |  | 0.52 | **0.67** | 0.49 | 0.57 | 0.48 |  | **0.53** |
| NH white excess Death Rate Compared to Other Regions |  |  | **2.30** | 0.25 | **0.48** | **1.28** | **2.00** | **0.75** | **0.65** | **1.15** |  | **1.37** | **1.66** | 0.60 | **1.93** | **0.24** |  | **0.87** |
| % of excess NH white deaths by cause |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | − |  | 25% | − | −  10% | −9% | −3% | 41% | −24% | −2% |  | −20% | 0% | − | 9% | −112% |  | −1% |
| Other perinatal conditions | − |  | 4% | − | 15% | 5% | 3% | −6% | 15% | 11% |  | 20% | −10% | − | 9% | −21% |  | 2% |
| Congenital anomalies | − |  | 18% | − | 3% | 29% | 31% | 16% | 2% | 15% |  | 20% | 20% | − | 33% | 47% |  | 22% |
| SUID | − |  | 35% | − | 61% | 41% | 58% | 46% | 95% | 47% |  | 71% | 60% | − | 34% | 168% |  | 56% |
| Infection | − |  | 5% | − | 4% | 3% | 1% | 4% | −2% | 3% |  | 0% | 8% | − | 4% | 11% |  | 5% |
| Injury | − |  | 3% | − | 1% | 12% | 1% | −3% | 8% | 11% |  | 3% | 9% | − | 4% | −9% |  | 7% |
| All other causes | − |  | 9% | − | 25% | 18% | 10% | 2% | 6% | 14% |  | 5% | 13% | − | 7% | 16% |  | 10% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NH black cause-specific IMR per 1000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | 5.85 |  | 6.22 | **5.29** | **5.23** | **4.24** | **4.90** | **6.98** | **5.00** | 6.24 |  | **4.45** | 5.64 | \* | 5.83 | **4.76** |  | **5.44** |
| Other perinatal conditions | 1.71 |  | 1.75 | **1.48** | 1.80 | **0.87** | 1.72 | 1.70 | 1.92 | **2.33** |  | 1.74 | **1.15** | \* | 1.71 | **1.27** |  | 1.61 |
| Congenital anomalies | 1.54 |  | 1.50 | **1.93** | 1.39 | 1.55 | 1.84 | **1.96** | 1.39 | **1.97** |  | 1.49 | 1.38 | \* | 2.20 | 1.48 |  | 1.65 |
| SUID | 1.88 |  | 1.67 | **1.63** | **1.64** | 2.53 | **2.69** | 1.91 | 1.68 | 2.18 |  | **2.95** | 2.18 | \* | **2.88** | **2.44** |  | **2.01** |
| Infection | 0.45 |  | 0.49 | **0.67** | 0.45 | \* | 0.54 | 0.44 | 0.43 | 0.51 |  | 0.69 | **0.74** | \* | \* | **0.32** |  | 0.51 |
| Injury | 0.42 |  | 0.36 | 0.50 | 0.50 | \* | 0.30 | 0.43 | 0.51 | 0.62 |  | 0.51 | 0.58 | \* | 0.89 | **0.33** |  | 0.47 |
| All other causes | 0.92 |  | **1.34** | **1.25** | **1.30** | 1.05 | **1.38** | **1.26** | **1.21** | 1.05 |  | 0.77 | 1.10 | \* | 0.82 | 0.81 |  | **1.16** |
| NH black excess death rate compared to other regions |  |  | 0.56 | -0.02 | −  0.45 | −  1.61 | 0.61 | **1.90** | −0.63 | **2.13** |  | −0.18 | 0.00 | −0.80 | **1.98** | −1.35 |  | −0.49 |
| % of excess NH black deaths by cause |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preterm-related | − |  | − | − | − | − | − | 59% | − | 18% |  | − | − | − | -1% | − |  | − |
| Other perinatal conditions | − |  | − | − | − | − | − | 0% | − | 29% |  | − | − | − | 0% | − |  | − |
| Congenital anomalies | − |  | − | − | − | − | − | 22% | − | 20% |  | − | − | − | 33% | − |  | − |
| SUID | − |  | − | − | − | − | − | 2% | − | 14% |  | − | − | − | 50% | − |  | − |
| Infection | − |  | − | − | − | − | − | -1% | − | 3% |  | − | − | − | \* | − |  | − |
| Injury | − |  | − | − | − | − | − | 1% | − | 10% |  | − | − | − | 24% | − |  | − |
| All other causes | − |  | − | − | − | − | − | 18% | − | 6% |  | − | − | − | -5% | − |  | − |

*Note:* Boldface indicates that a rate is significantly different from other regions, *p*<0.05.

\**n*<10, not reportable.

−not applicable, no significant excess in infant mortality at *p*<0.05.

Underlying causes of death (ICD-10 codes) were categorized as preterm-related (gestational age <37 weeks and codes K550, P000, P010, P011, P015, P020, P021, P027, P070–P073, P102, P220–229, P250–279, P280, P281, P360–369, P520–523, or P77), other perinatal conditions (all other codes in P00-P96, regardless of prematurity), congenital anomalies (Q00-Q99), SUID (R95, R99, or W75), injury (J69, U01, V01-W74, or W76-Y36), infection (A00-B99, G00, G03, I30, I33, I40, J00−J21, or J40−J42), and all other causes.

IMR, infant mortality rate; NH, non-Hispanic; SUID, sudden unexpected infant death