POSTNEONATAL MORTALITY RATE

1. Definition:

POSTNEONATAL MORTALITY RATE is the number of resident newborns dying between 28 and 364 days of age in a specified geographic area (country, state, county, etc.) divided by the number of resident live births for the same geographic area (for a specified time period, usually a calendar year) and multiplied by 1,000.

2. Calculation:

(Number of resident postneonatal deaths/Number of resident live births) x 1,000

Number of Resident Postneonatal Deaths

Number of Resident Live Births

X 1,000

Additional links to State/National websites with calculation and/or definition - National Center for Health Statistics: Mortality Technical Appendix

3. Examples:

300 = postneonatal deaths in 2008 among state residents 150,000 = live births in 2008 to state residents

 $(300/150,000) \times 1,000 = 2.0$ postneonatal deaths per 1,000 live births in 2008 among state residents

4. Technical Notes:

- The postneonatal mortality rate is usually calculated using the annual number of resident infants who died between 28 and 364 days of age in the numerator and the total annual number of resident live births during the same year in the denominator.
- By matching postneonatal death certificates to the corresponding birth certificates, much more additional and valuable data are obtained (birth weight, smoking status of mother, when prenatal care began, etc.) for postneonatal mortality risk analysis.
- In less densely populated areas, annual numbers of postneonatal deaths may be small (<10 or 20) which would result in a postneonatal mortality rate considered to be too unstable or unreliable for analysis. Adding additional years (three or five-year average annual rates) and/or expanding the area to be studied should result in a larger number of deaths and more reliable rates for analysis. (see North Carolina Statistical Primer, Problems with Rates Based on Small Numbers; Pennsylvania: Technical Assistance Small Area Analysis; New York State: Rates Based on Small Numbers, Washington State: Guidelines for Working with Small Numbers and Statistical Notes for Health Planners)
- The Division of Vital Statistics (DVS) at NCHS follows standards for use of the terms "death rate" and "mortality rate" in naming and reporting common vital statistics rates for deaths. The NAPHSIS standard measures shown here follow the DVS standards, primarily to maintain consistency with DVS for naming conventions. Please note that states/registration areas and other federal government organizations within and outside NCHS/CDC may not follow the DVS standards when naming and reporting death/mortality rates.

o According to DVS standards, the following naming conventions are used for the common vital statistics rates for deaths:

Mortality Rates
Infant Mortality Rate
Neonatal Mortality Rate
Postneonatal Mortality rate
Perinatal Mortality Rate
Fetal Mortality Rate
Maternal Mortality Rate

Death Rates
Crude Death Rate
Age-Specific Death Rate
Cause-Specific Death Rate
Age-Adjusted Death Rate