

Technical Notes

Data reported in the BEPHI Legislative Profiles are derived from birth and death certificates on file in the Office of Vital Statistics of the Kansas Department of Health and Environment. The profile for each legislative district reports on vital events occurring to residents of that district. It compares percentages of those events to percentages of the same events occurring to residents of the state of Kansas as a whole during the same time period.

If the number of events for a particular condition is less than 6, the number is suppressed (indicated by the # sign in the table), the percent is suppressed (indicated by “NA” in the table), and no information for the district or the state will appear in the chart for that condition.

Births

Certain conditions and circumstances surrounding birth are recognized as being associated with less than optimal health for the newborn. The following, which may be interrelated, can be identified from birth certificate data:

Premature Birth is defined as birth at less than 37 weeks gestation. Weeks gestation is calculated as the number of weeks between the first day of the last reported normal menses and the delivery of the infant.

Low Birth Weight is defined as weight of the newborn being less than 2,500 grams (5.5 pounds).

Less Than Adequate Prenatal Care is calculated by using the Adequacy of Prenatal Utilization (APNCU) Index developed by Dr. Milton Kotelchuck. “Less Than Adequate Prenatal Care” is comprised of Intermediate (Prenatal care begun by the 4th month and 50% - 79% of recommended visits received) and Inadequate (Prenatal care begun after the 4th month or less than 50% of recommended visits received).

No Prenatal Care in the First Trimester (first three months of pregnancy) is calculated from fields for date of last menses, date of first prenatal care visit, and obstetric estimation of age at delivery.

Mother Under 18 Years Old: Mother’s age is calculated as the difference in years between the mother’s date of birth and the infant’s date of birth.

Unmarried Mother: Marital status is one of the fields on the birth certificate.

Mother Without High School Diploma: Education level of mother is one of the fields on the birth certificate.

Mother Smoked During Pregnancy if the number of cigarettes or packs of cigarettes smoked during the first, second, or third trimester are given.

Mother Gained Less Than Recommended Weight refers to recommendations found in guidelines from the Institute of Medicine of the National Academies, dated May 28, 2009. This indicator is calculated only for mothers of singletons, since multiple births would be expected to be associated with higher weight gains. Consequently, the denominator for this percentage is the number of singleton births minus the number where BMI and/or weight gain are unknown. The recommended minimum weight gain depends on the mother's body mass index (BMI), ranging from 28 pounds for a mother who is underweight (BMI < 18.5) to 11 pounds for a mother who is obese (BMI 30+). The BMI is calculated from fields for mother's height in feet and inches and from the field for mother's pre-pregnancy weight. Weight gain is calculated as the difference between the mother's pre-pregnancy weight and her weight at delivery.

Deaths

Numbers and percents of deaths are presented for five age groups and for eight leading causes of death. Together, these causes represented 67% of deaths of Kansas residents in 2012. Following are the causes with their ICD-10 codes:

- Malignant Neoplasms (Cancer) (C00-C97)
- Heart Disease (I00-I09, I11, I13, I20-I51)
- Chronic Lower Respiratory Diseases (J40-J47)
- Cerebrovascular Disease (Stroke) (I60-I69)
- Unintentional Injuries (V01-X59, Y40-Y86, Y88)
- Diabetes Mellitus (Diabetes) (E10-E14)
- Pneumonia and Influenza (J09-J18)
- Suicide (U03, X60-X84, Y87.0)

Further Technical Notes

For a more complete discussion of analysis of Vital Statistics data, please refer to the Technical Notes section of the Annual Summary of Vital Statistics, published by the Bureau of Epidemiology and Public Health Informatics of the Kansas Department of Health and Environment, available at: www.kdheks.gov/hci/annsumm.html.