

Birth Highlights for Davidson County Residents 2007



This brief is designed to provide information regarding births in Davidson County for 2007. Highlights are described in bullet points and tables, and comparisons of Davidson County data with other similarly sized cities in the Southeastern United States are also provided.

Birth Highlights 2007 for Davidson County Residents

- The number of births in 2007 (n=9,991) is 0.3% higher than the number of births in 2006 (n=9,966).
- Of the births in Davidson County in 2007, 65.7% were white, 30.2% were black, and 3.9% were of other races. 20.1% of births were Hispanic.
- The number of Hispanic births in Davidson County in 2007 was 3.0% higher than the number of Hispanic births in 2006.
- In 2007, teen mothers (aged 10 - 19 years) represented 10.4% of births. This is lower than the percentage for Tennessee (15.5% of births born to teens aged 10 - 19 years in 2007).
- The number of births in 2007 to teen mothers (1,043 births to mothers aged 10 - 19 years) was 6.2% higher than the number of births to teens in 2006 (982 births).
- In 2007, the number of births to women 40 years and older represented 2.1% of all births in Davidson County.
- There was a 4.3% decrease in the rate of preterm births (<37 weeks gestation) from 2006 to 2007 (12.5% in 2006; 11.9% in 2007).
- In 2007, the rate of black preterm births (15.0%) was 1.5 times higher than the rate of preterm births among whites (10.5%).
- Low birth weight births (<2,500 grams) decreased from 2006 (9.8%) to 2007 (9.3%). The percentage of low birth weight births in Tennessee in 2007 was 9.4%.
- In 2007, the rate of low birth weight births among blacks (13.7%) was nearly two times higher than the rate of low birth weight births among whites (7.3%).
- In 2007, 54.0% of women with live births entered prenatal care during the first trimester and 56.2% of women with live births received adequate prenatal care in 2007 compared to 54.2% in 2006.
- In 2007, the percentage of white women with live births who entered care during the first trimester is 54.8% the number of black women with live births who entered prenatal care during the first trimester is 52.4%.

Birth Highlights

2006/2007 Statistics for Davidson County Residents

2006			
Total Births = 9,966			
Live Birth Rate ¹ = 73.4 per 1,000 women aged 15 - 44 years			
Racial Categories	Number	Percent ²	
White	6,594	66.2	
Black	2,951	29.6	
Other	412	4.1	
Unknown	9	0.1	
Hispanic			
Non-Hispanic	8,010	80.4	
Hispanic	1,950	19.6	
Unknown	6	0.1	
Age of Mother			
40 plus	203	2.0	
30 - 39 years	3,202	32.1	
20 - 29 years	5,579	56.0	
Teens Under the Age of 20	982	9.9	
◆Teens 10 - 14 years	22	0.2	
◆Teens 15 - 17 years	310	3.1	
◆Teens 18 - 19 years	650	6.5	
Unknown	0	0.0	
Birth Outcomes			
Premature ⁴ (<37 weeks)	1,244	12.5	
Very Premature (<32 weeks)	205	2.1	
Low Birth Weight (<=2500g)	981	9.8	
Very Low Birth Weight (<=1500g)	178	1.8	
First Trimester Prenatal Care	5,356	53.7	
Adequate Prenatal Care ³	5,403	54.2	
C-Sections	3,348	33.6	
Singletons	9,633	96.7	

2007			
Total Births = 9,991			
Live Birth Rate ¹ = 73.9 per 1,000 women aged 15 - 44 years			
Racial Categories	Number	Percent ²	
White	6,565	65.7	
Black	3,012	30.1	
Other	394	3.9	
Unknown	20	0.2	
Hispanic			
Non-Hispanic	7,969	79.8	
Hispanic	2,011	20.1	
Unknown	11	0.1	
Age of Mother			
40 plus	213	2.1	
30 - 39 years	3,124	31.3	
20 - 29 years	5,611	56.2	
Teens Under the Age of 20	1,043	10.4	
◆Teens 10 - 14 years	15	0.2	
◆Teens 15 - 17 years	339	3.4	
◆Teens 18 - 19 years	689	6.9	
Unknown	0	0.0	
Birth Outcomes			
Premature ⁴ (<37 weeks)	1,191	11.9	
Very Premature (<32 weeks)	205	2.1	
Low Birth Weight (<=2500g)	933	9.3	
Very Low Birth Weight (<=1500g)	174	1.7	
First Trimester Prenatal Care	5,385	54.0	
Adequate Prenatal Care ³	5,610	56.2	
C-Sections	3,464	34.7	
Singletons	9,659	96.7	

¹This is a general fertility rate computed by relating total births, regardless of age of mother, to women aged 15 - 44 years.

Data on women 15 - 44 from 2008 Revision of Tennessee Population Projections 2000-2010, Tennessee Department of Public Health

²Percent of all live births.

³Based on criteria defined in the Adequacy of Prenatal Care Utilization Index developed by Milton Kotelchuck, PhD, MPH. Adequate includes births with Adequate and Adequate Plus care.

⁴Based on gestational age calculated from the last menstrual period.

Birth Outcomes 2007 for Selected Counties

Location	Premature^(<37 weeks)	Very Premature^(<32 weeks)	Low Birth Weight^(<2500g)	Very Low Birth Weight^(<1500g)	First Trimester^ Prenatal Care	Adequate^1 Prenatal Care	C-sections^
Davidson County (Nashville, TN)	11.9	2.1	9.3	1.7	54.0	56.2	34.7
Shelby County (Memphis, TN)	12.6	2.8	11.1	2.6	48.1	•	32.6
Knox County (Knoxville, TN)	12.4	1.7	8.8	1.3	74.2	•	35.2
Hamilton County (Chattanooga, TN)	14.6	2.4	12.0	2.2	63.0	•	34.7
Lee County (Fort Meyers, FL)	13.8	2.3	8.8	1.7	65.2	57.3	36.8
Mecklenburg County (Charlotte, NC)	13.0	2.1	9.3 [◊]	1.8 [◊]	78.3	*	31.7
Wake County (Raleigh/Durham, NC)	12.0	1.8	7.7 [◊]	1.6 [◊]	82.2	*	31.7
Duval County (Jacksonville, FL)	15.1	2.7	9.7	2.0	68.2	60.2	30.2
Baltimore City (Baltimore, MD)	*	*	12.8	2.7	74.2	*	30.9

^Percentage of all live births.

Source: Data from localities except Davidson County came from the State Health Department of that county. Davidson County data provided by the Division of Epidemiology at MPHD.

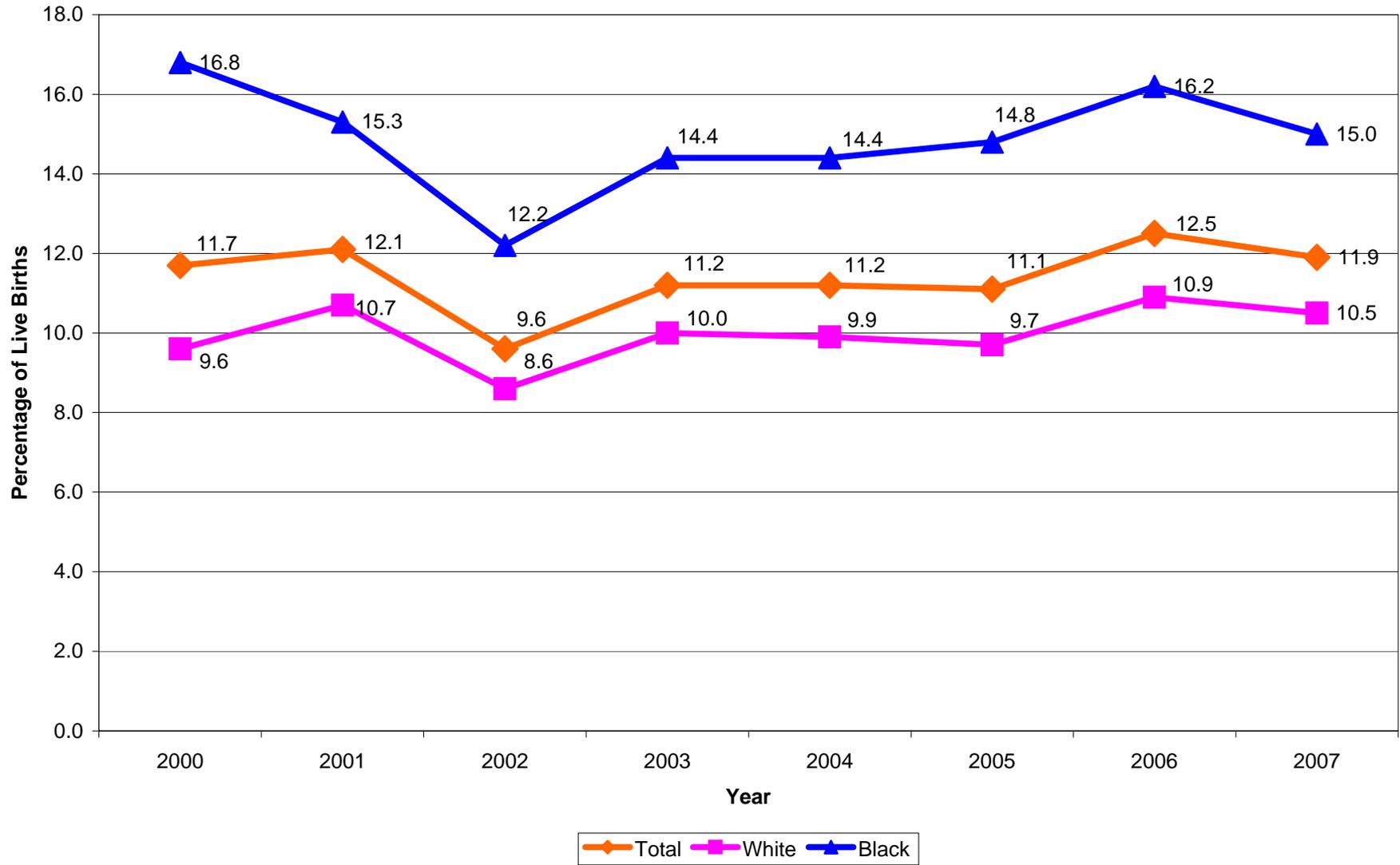
*Data not available.

¹Based on criteria defined in the Adequacy of Prenatal Care Utilization Index developed by Milton Kotelchuck, PhD, MPH. Adequate includes births with Adequate and Adequate Plus care.

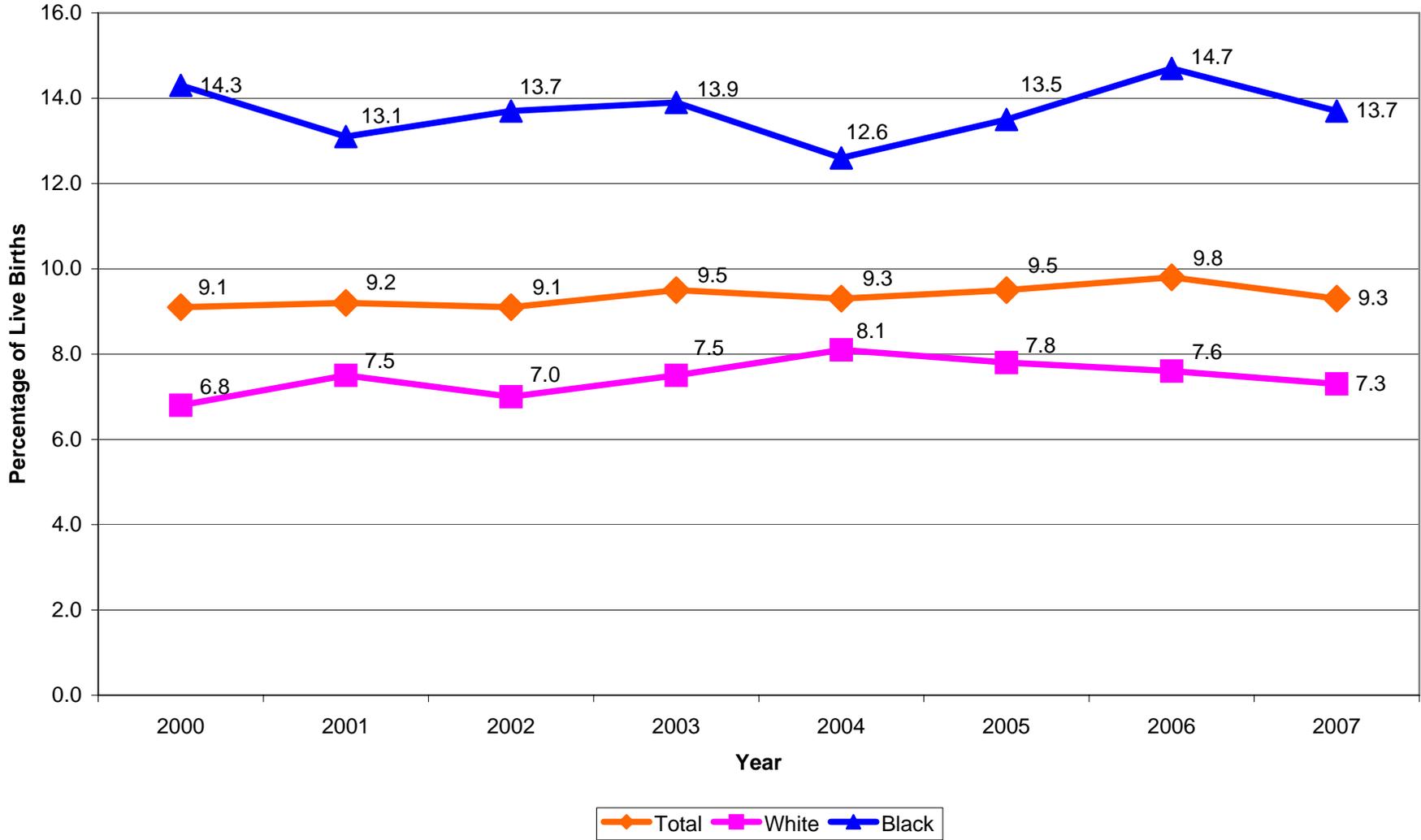
• Comparable data using Kotelchuck index not available

[◊]Includes 2500g and 1500g respectively

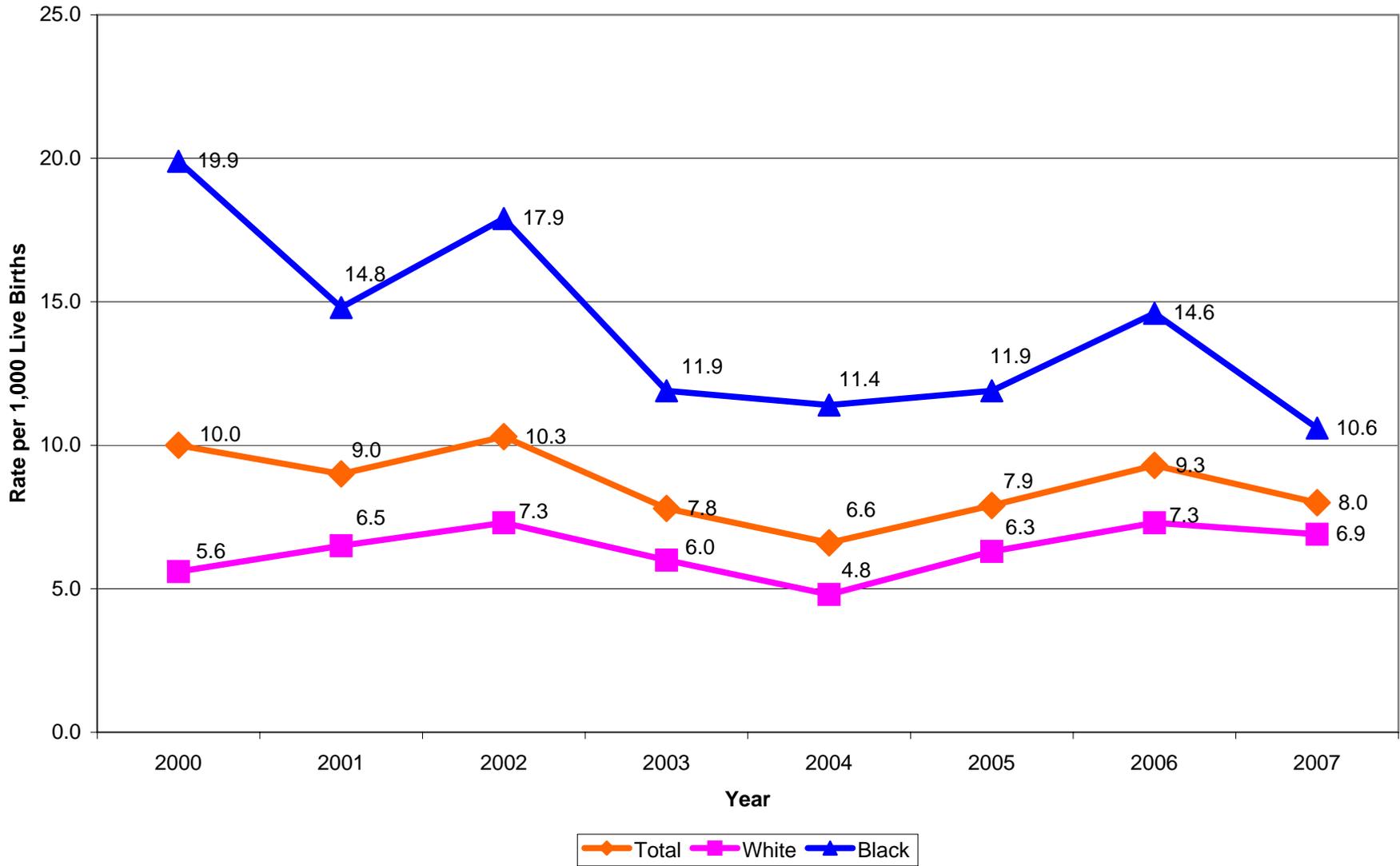
Percentage of Live Births Born Preterm (< 37 weeks), Davidson County, TN 2000-2007



Percentage of Live Births Born Low Birth Weight (<2500 grams), Davidson County, TN 2000-2007



Infant Mortality Rates per 1,000 Live Births, Davidson County, TN 2000-2007



Epidemiology

The Epidemiology program provides health data, information, and analytical services to the community in order to foster decision-making that results in healthier lives.

This program collects, assembles, and analyzes health status and health surveillance data in Nashville. It also publishes reports on the health status of Davidson County residents based on numerous data sources that include birth and death certificates, notifiable disease, data, and youth and adult health risk behavior surveys. Activities include epidemiological and geographical analyses, public health informatics, and public health surveillance and response.

In addition, the Epidemiology program provides technical support for program evaluation throughout the department. It also monitors and evaluates the quality and utilization of the healthcare delivery system in Nashville. Surveys and evaluations may be conducted by request for programs within the Metro Public Health Department and for external organizations.

For a list of publications (reports and data) produced by the program, please direct any questions about the information or services described above to the Epidemiology at 615-340-5683. Requests for data or services may also be made by going to our website at health.nashville.gov and clicking the link **Health Data/Request**.