North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2018, No. 4

HIV/STD Surveillance Unit

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ANNOUNCEMENTS:

Readers should consider the data in this report to be *preliminary*. These data represent reports for short time periods and changes noted from quarter to quarter may not be meaningful. *Case review and confirmation is incomplete for this quarter. For the fourth quarter of 2018, chlamydia cases are approximately 7% underestimated; gonorrhea cases are approximately 5% underestimated.* Some cases listed in this report are considered presumptive; their status may change as case investigation continues.

If you have questions or comments, please contact us at the address or phone number above.

About the authors

North Carolina law requires that diagnoses of certain communicable diseases, including sexually transmitted diseases (STDs), be reported to local health departments that in turn report the information to the state. The HIV/STD Surveillance Unit (HSSU) is the designated recipient for STD morbidity reports at the state level and is responsible for aggregating reports and providing statewide information about these diseases to others, including the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. The HSSU is part of the Communicable Disease Branch within the North Carolina Division of Public Health.

About the contents of this report

The *North Carolina HIV/STD Surveillance Report: Vol. 2018, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through September 30, 2018. All reports are presented by the **date of diagnosis**. This report is intended as a reference document for local health departments, program managers, health planners, researchers and others who are concerned with the public health implications of these diseases. **The information in this quarterly report is meant to be brief and provide limited data on these diseases throughout the year. More detailed and complete information will continue to be available in annual publications.** This report and our annual publications are available on our website (http://epi.publichealth.nc.gov/cd/stds/figures.html). The CDC maintains data about these diseases for the United States; national information is available from its website (http://www.cdc.gov/hiv/library/reports/surveillance/).

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

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North Carolina Public Health

HIV Infection Surveillance Data

Human immunodeficiency virus (HIV) infection case reports represents all new diagnoses with HIV in North Carolina regardless of the stage of the disease (including acquired immunodeficiency syndrome [AIDS]). Most persons are reported with only an HIV infection, but some persons are reported with a concurrent diagnosis of AIDS (an AIDS diagnosis within six months of the initial HIV infection diagnosis). In North Carolina, about one-quarter of the new HIV infection reports represent persons who are diagnosed with HIV infection and AIDS at the same time. ***AIDS case reports***, by contrast, represent only persons with HIV infection who have progressed to this later, more life threatening, stage of disease. For these reasons, HIV infection reports and AIDS case reports should be considered separately. The two categories should never be combined to estimate an infected population, as the broad group of HIV disease includes AIDS cases, and combining the two categories would therefore double-count the AIDS cases. ***HIV infection and AIDS cases are both presented by date of diagnosis in this publication.*** This gives a preliminary look at HIV infection surveillance for 2018. Also, HIV and AIDS cases diagnosed from long-term care institutions, such as prisons, are not included in county totals, but are listed under “Unassigned” county.

Chlamydia Surveillance Data

Chlamydia case reports represent persons who have a laboratory-confirmed chlamydial infection. It is important to note that chlamydial infection is often asymptomatic in both males and females, and most cases are detected through screening. The disease can cause serious complications in females (such as infertility), and a number of screening programs are in place to detect infection in young women. There are no comparable screening programs for young men. For this reason, chlamydia case reports are always highly biased with respect to gender. Changes in the number of reported cases may be due to changes in screening practices. Increases in morbidity totals since 2008 are likely to be the result of enhancements in laboratory reporting. Chlamydia infections are presented by **date of diagnosis** in this publication.

Gonorrhea Surveillance Data

Gonorrhea case reports represent persons who have a laboratory-confirmed gonorrhea infection. Gonorrhea is often symptomatic in males and slightly less so in females. Many cases are detected when patients seek medical care. Others are detected through screening, but to a far lesser degree than chlamydia cases. Gonorrhea can cause serious complications for females (such as infertility),, and a number of screening programs exist targeting this population. There is less screening of males but since they are more likely to have symptoms that would bring them to the STD clinic, gender bias in gonorrhea reporting is not likely to be large. Public clinics and health departments may do a better job of conducting such screening programs and reporting cases, causing the reported cases to be biased toward those attending public clinics. Gonorrhea infections are presented by **date of diagnosis** in this publication.

Syphilis Surveillance Data

Syphilis cases are reported by stage of infection, which is determined through a combination of laboratory testing and patient interviews. Primary and secondary syphilis have very specific symptoms associated with them, so misclassification of these stages is highly unlikely. Early latent syphilis is asymptomatic but can be staged with confirmation that the person has been infected for less than a year. Together these three stages that occur within the first year of infection are called “early syphilis.” This report includes only early syphilis cases, though other later stages are reported to HSSU. Because North Carolina performs patient interviews, partner notification, and contact tracing on all early syphilis cases, the quality of the early latent case data is also quite good. Screening programs are more likely to detect asymptomatic cases, which may introduce some bias in the early latent case reports toward screened populations (pregnant women, jail inmates, others). But, thorough contact tracing further aids in case detection and reduces these biases. Syphilis infections are presented by **date of diagnosis** in this publication.

For more information

The data descriptions provided on this page are succinct. For a more detailed discussion of the content, strengths, and weaknesses of STD and HIV surveillance data, please see Appendix B in the *Epidemiologic Profile for HIV/STD Prevention & Care Planning, December 2013*. This report can be found on our website http://epi.publichealth.nc.gov/cd/stds/figures.html.

Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	2	0.0	0	0.0	2	0.0
	10-14	6	0.0	8	0.0	10	0.1	7	0.0	31	0.0
	15-19	1,005	6.1	964	5.8	1,016	6.1	1,011	6.4	3,996	6.1
	20-24	2,007	12.3	1,990	12.0	1,981	11.9	1,820	11.5	7,798	11.9
	25-29	1,085	6.6	1,132	6.9	1,146	6.9	1,094	6.9	4,457	6.8
	30-34	475	2.9	487	2.9	504	3.0	455	2.9	1,921	2.9
	35-39	249	1.5	229	1.4	283	1.7	271	1.7	1,032	1.6
	40-44	134	0.8	167	1.0	138	0.8	166	1.0	605	0.9
	45-54	134	0.8	146	0.9	175	1.1	139	0.9	594	0.9
	55-64	39	0.2	34	0.2	59	0.4	48	0.3	180	0.3
	65+	7	0.0	10	0.1	11	0.1	12	0.1	40	0.1
	Total	5,141	31.4	5,167	31.3	5,325	32.0	5,023	31.8	20,656	31.6
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	1	0.0	2	0.0	0	0.0	3	0.0
	10-14	81	0.5	96	0.6	92	0.6	93	0.6	362	0.6
	15-19	3,657	22.3	3,587	21.7	3,704	22.2	3,551	22.5	14,499	22.2
	20-24	4,389	26.8	4,355	26.4	4,257	25.6	4,004	25.3	17,005	26.0
	25-29	1,814	11.1	1,964	11.9	1,932	11.6	1,859	11.8	7,569	11.6
	30-34	706	4.3	719	4.4	739	4.4	693	4.4	2,857	4.4
	35-39	319	1.9	362	2.2	311	1.9	312	2.0	1,304	2.0
	40-44	127	0.8	150	0.9	169	1.0	141	0.9	587	0.9
	45-54	98	0.6	88	0.5	89	0.5	111	0.7	386	0.6
	55-64	35	0.2	26	0.2	33	0.2	28	0.2	122	0.2
	65+	5	0.0	0	0.0	8	0.0	1	0.0	14	0.0
	Total	11,231	68.6	11,348	68.7	11,336	68.0	10,793	68.2	44,708	68.4
Total	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	1	0.0	4	0.0	0	0.0	5	0.0
	10-14	87	0.5	104	0.6	102	0.6	100	0.6	393	0.6
	15-19	4,662	28.5	4,551	27.6	4,720	28.3	4,562	28.8	18,495	28.3
	20-24	6,396	39.1	6,345	38.4	6,238	37.4	5,824	36.8	24,803	37.9
	25-29	2,899	17.7	3,096	18.7	3,078	18.5	2,953	18.7	12,026	18.4
	30-34	1,181	7.2	1,206	7.3	1,243	7.5	1,148	7.3	4,778	7.3
	35-39	568	3.5	591	3.6	594	3.6	583	3.7	2,336	3.6
	40-44	261	1.6	317	1.9	307	1.8	307	1.9	1,192	1.8
	45-54	232	1.4	234	1.4	264	1.6	250	1.6	980	1.5
	55-64	74	0.5	60	0.4	92	0.6	76	0.5	302	0.5
	65+	12	0.1	10	0.1	19	0.1	13	0.1	54	0.1
	Total	16,372	100.0	16,515	100.0	16,661	100.0	15,816	100.0	65,364	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	47	0.3	56	0.3	63	0.4	56	0.4	222	0.3
	Asian/Pacific Islander[a]	27	0.2	22	0.1	29	0.2	22	0.1	100	0.2
	Black/African American[a]	1,870	11.4	1,832	11.1	1,938	11.6	1,787	11.3	7,427	11.4
	Hispanic/Latino	296	1.8	299	1.8	286	1.7	312	2.0	1,193	1.8
	White/Caucasian[a]	723	4.4	658	4.0	748	4.5	692	4.4	2,821	4.3
	Multiple Race	10	0.1	6	0.0	13	0.1	11	0.1	40	0.1
	Unknown	2,168	13.2	2,294	13.9	2,248	13.5	2,143	13.5	8,853	13.5
	Total	5,141	31.4	5,167	31.3	5,325	32.0	5,023	31.8	20,656	31.6
Female	American Indian/Alaska Native[a]	155	0.9	149	0.9	167	1.0	136	0.9	607	0.9
	Asian/Pacific Islander[a]	81	0.5	65	0.4	65	0.4	53	0.3	264	0.4
	Black/African American[a]	3,769	23.0	3,906	23.7	4,002	24.0	3,529	22.3	15,206	23.3
	Hispanic/Latino	845	5.2	882	5.3	806	4.8	738	4.7	3,271	5.0
	White/Caucasian[a]	2,210	13.5	2,078	12.6	2,153	12.9	1,987	12.6	8,428	12.9
	Multiple Race	30	0.2	25	0.2	17	0.1	25	0.2	97	0.1
	Unknown	4,141	25.3	4,243	25.7	4,126	24.8	4,325	27.3	16,835	25.8
	Total	11,231	68.6	11,348	68.7	11,336	68.0	10,793	68.2	44,708	68.4
Total[c]	American Indian/Alaska Native[a]	202	1.2	205	1.2	230	1.4	192	1.2	829	1.3
	Asian/Pacific Islander[a]	108	0.7	87	0.5	94	0.6	75	0.5	364	0.6
	Black/African American[a]	5,639	34.4	5,738	34.7	5,940	35.7	5,316	33.6	22,633	34.6
	Hispanic/Latino	1,141	7.0	1,181	7.2	1,092	6.6	1,050	6.6	4,464	6.8
	White/Caucasian[a]	2,933	17.9	2,736	16.6	2,901	17.4	2,679	16.9	11,249	17.2
	Multiple Race	40	0.2	31	0.2	30	0.2	36	0.2	137	0.2
	Unknown	6,309	38.5	6,537	39.6	6,374	38.3	6,468	40.9	25,688	39.3
	Total	16,372	100.0	16,515	100.0	16,661	100.0	15,816	100.0	65,364	100.0

[a]Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	3	0.1	5	0.1	4	0.1	2	0.0	14	0.1
	15-19	360	6.6	346	6.0	382	6.2	358	6.2	1,446	6.3
	20-24	796	14.6	853	14.8	833	13.5	797	13.9	3,279	14.2
	25-29	614	11.3	689	12.0	738	11.9	664	11.6	2,705	11.7
	30-34	369	6.8	364	6.3	440	7.1	390	6.8	1,563	6.8
	35-39	202	3.7	277	4.8	288	4.7	271	4.7	1,038	4.5
	40-44	145	2.7	150	2.6	169	2.7	176	3.1	640	2.8
	45-54	146	2.7	171	3.0	212	3.4	197	3.4	726	3.1
	55-64	68	1.3	67	1.2	113	1.8	107	1.9	355	1.5
	65+	17	0.3	19	0.3	14	0.2	22	0.4	72	0.3
	Total	2,720	50.0	2,941	51.2	3,193	51.6	2,984	52.1	11,838	51.2
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	1	0.0	2	0.0	0	0.0	0	0.0	3	0.0
	10-14	17	0.3	22	0.4	20	0.3	17	0.3	76	0.3
	15-19	687	12.6	654	11.4	684	11.1	635	11.1	2,660	11.5
	20-24	909	16.7	876	15.2	985	15.9	852	14.9	3,622	15.7
	25-29	565	10.4	636	11.1	644	10.4	598	10.4	2,443	10.6
	30-34	279	5.1	320	5.6	328	5.3	315	5.5	1,242	5.4
	35-39	127	2.3	162	2.8	161	2.6	156	2.7	606	2.6
	40-44	62	1.1	65	1.1	78	1.3	84	1.5	289	1.3
	45-54	51	0.9	56	1.0	69	1.1	73	1.3	249	1.1
	55-64	18	0.3	13	0.2	23	0.4	12	0.2	66	0.3
	65+	2	0.0	1	0.0	3	0.0	5	0.1	11	0.0
	Total	2,718	50.0	2,807	48.8	2,995	48.4	2,747	47.9	11,267	48.8
Total	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	1	0.0	2	0.0	0	0.0	0	0.0	3	0.0
	10-14	20	0.4	27	0.5	24	0.4	19	0.3	90	0.4
	15-19	1,047	19.3	1,000	17.4	1,066	17.2	993	17.3	4,106	17.8
	20-24	1,705	31.4	1,729	30.1	1,818	29.4	1,649	28.8	6,901	29.9
	25-29	1,179	21.7	1,325	23.1	1,382	22.3	1,262	22.0	5,148	22.3
	30-34	648	11.9	684	11.9	768	12.4	705	12.3	2,805	12.1
	35-39	329	6.1	439	7.6	449	7.3	427	7.5	1,644	7.1
	40-44	207	3.8	215	3.7	247	4.0	260	4.5	929	4.0
	45-54	197	3.6	227	3.9	281	4.5	270	4.7	975	4.2
	55-64	86	1.6	80	1.4	136	2.2	119	2.1	421	1.8
	65+	19	0.3	20	0.3	17	0.3	27	0.5	83	0.4
	Total	5,438	100.0	5,748	100.0	6,188	100.0	5,731	100.0	23,105	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	31	0.6	24	0.4	42	0.7	23	0.4	120	0.5
	Asian/Pacific Islander[a]	9	0.2	6	0.1	10	0.2	14	0.2	39	0.2
	Black/African American[a]	1,370	25.2	1,489	25.9	1,568	25.3	1,452	25.3	5,879	25.4
	Hispanic/Latino	100	1.8	105	1.8	102	1.6	92	1.6	399	1.7
	White/Caucasian[a]	332	6.1	355	6.2	415	6.7	357	6.2	1,459	6.3
	Multiple Race	6	0.1	4	0.1	10	0.2	10	0.2	30	0.1
	Unknown	872	16.0	958	16.7	1,046	16.9	1,036	18.1	3,912	16.9
	Total	2,720	50.0	2,941	51.2	3,193	51.6	2,984	52.1	11,838	51.2
Female	American Indian/Alaska Native[a]	44	0.8	39	0.7	55	0.9	46	0.8	184	0.8
	Asian/Pacific Islander[a]	10	0.2	6	0.1	15	0.2	8	0.1	39	0.2
	Black/African American[a]	1,216	22.4	1,322	23.0	1,381	22.3	1,177	20.5	5,096	22.1
	Hispanic/Latino	79	1.5	81	1.4	83	1.3	76	1.3	319	1.4
	White/Caucasian[a]	497	9.1	493	8.6	552	8.9	499	8.7	2,041	8.8
	Multiple Race	10	0.2	8	0.1	12	0.2	14	0.2	44	0.2
	Unknown	862	15.9	858	14.9	897	14.5	927	16.2	3,544	15.3
	Total	2,718	50.0	2,807	48.8	2,995	48.4	2,747	47.9	11,267	48.8
Total	American Indian/Alaska Native[a]	75	1.4	63	1.1	97	1.6	69	1.2	304	1.3
	Asian/Pacific Islander[a]	19	0.3	12	0.2	25	0.4	22	0.4	78	0.3
	Black/African American[a]	2,586	47.6	2,811	48.9	2,949	47.7	2,629	45.9	10,975	47.5
	Hispanic/Latino	179	3.3	186	3.2	185	3.0	168	2.9	718	3.1
	White/Caucasian[a]	829	15.2	848	14.8	967	15.6	856	14.9	3,500	15.1
	Multiple Race	16	0.3	12	0.2	22	0.4	24	0.4	74	0.3
	Unknown	1,734	31.9	1,816	31.6	1,943	31.4	1,963	34.3	7,456	32.3
	Total	5,438	100.0	5,748	100.0	6,188	100.0	5,731	100.0	23,105	100.0

[a]Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	18	3.7	11	2.4	16	3.8	11	2.6	56	3.1
	20-24	89	18.4	74	15.8	68	16.0	52	12.1	283	15.6
	25-29	90	18.6	96	20.5	87	20.5	82	19.0	355	19.6
	30-34	64	13.2	67	14.3	54	12.7	55	12.8	240	13.3
	35-39	45	9.3	32	6.8	45	10.6	47	10.9	169	9.3
	40-44	27	5.6	28	6.0	22	5.2	29	6.7	106	5.9
	45-54	52	10.7	53	11.3	50	11.8	46	10.7	201	11.1
	55-64	25	5.2	28	6.0	22	5.2	20	4.6	95	5.3
	65+	5	1.0	2	0.4	4	0.9	5	1.2	16	0.9
	Total	415	85.6	391	83.5	368	86.6	347	80.5	1,521	84.1
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	1	0.2	0	0.0	0	0.0	1	0.1
	15-19	4	0.8	11	2.4	8	1.9	6	1.4	29	1.6
	20-24	14	2.9	19	4.1	9	2.1	15	3.5	57	3.2
	25-29	20	4.1	17	3.6	14	3.3	22	5.1	73	4.0
	30-34	11	2.3	12	2.6	8	1.9	11	2.6	42	2.3
	35-39	6	1.2	5	1.1	5	1.2	8	1.9	24	1.3
	40-44	9	1.9	4	0.9	6	1.4	8	1.9	27	1.5
	45-54	5	1.0	5	1.1	4	0.9	9	2.1	23	1.3
	55-64	1	0.2	1	0.2	3	0.7	5	1.2	10	0.6
	65+	0	0.0	2	0.4	0	0.0	0	0.0	2	0.1
	Total	70	14.4	77	16.5	57	13.4	84	19.5	288	15.9
Total	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	1	0.2	0	0.0	0	0.0	1	0.1
	15-19	22	4.5	22	4.7	24	5.6	17	3.9	85	4.7
	20-24	103	21.2	93	19.9	77	18.1	67	15.5	340	18.8
	25-29	110	22.7	113	24.1	101	23.8	104	24.1	428	23.7
	30-34	75	15.5	79	16.9	62	14.6	66	15.3	282	15.6
	35-39	51	10.5	37	7.9	50	11.8	55	12.8	193	10.7
	40-44	36	7.4	32	6.8	28	6.6	37	8.6	133	7.4
	45-54	57	11.8	58	12.4	54	12.7	55	12.8	224	12.4
	55-64	26	5.4	29	6.2	25	5.9	25	5.8	105	5.8
	65+	5	1.0	4	0.9	4	0.9	5	1.2	18	1.0
	Total	485	100.0	468	100.0	425	100.0	431	100.0	1,809	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	2	0.4	2	0.4	3	0.7	3	0.7	10	0.6
	Asian/Pacific Islander[a]	4	0.8	1	0.2	6	1.4	0	0.0	11	0.6
	Black/African American[a]	242	49.9	242	51.7	215	50.6	211	49.0	910	50.3
	Hispanic/Latino	39	8.0	29	6.2	29	6.8	34	7.9	131	7.2
	White/Caucasian[a]	111	22.9	95	20.3	99	23.3	84	19.5	389	21.5
	Multiple Race	7	1.4	9	1.9	8	1.9	4	0.9	28	1.5
	Unknown	10	2.1	13	2.8	8	1.9	11	2.6	42	2.3
	Total	415	85.6	391	83.5	368	86.6	347	80.5	1,521	84.1
Female	American Indian/Alaska Native[a]	1	0.2	0	0.0	0	0.0	1	0.2	2	0.1
	Asian/Pacific Islander[a]	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Black/African American[a]	52	10.7	52	11.1	42	9.9	52	12.1	198	10.9
	Hispanic/Latino	1	0.2	5	1.1	5	1.2	5	1.2	16	0.9
	White/Caucasian[a]	14	2.9	18	3.8	10	2.4	24	5.6	66	3.6
	Multiple Race	2	0.4	1	0.2	0	0.0	0	0.0	3	0.2
	Unknown	0	0.0	1	0.2	0	0.0	2	0.5	3	0.2
	Total	70	14.4	77	16.5	57	13.4	84	19.5	288	15.9
Total	American Indian/Alaska Native[a]	3	0.6	2	0.4	3	0.7	4	0.9	12	0.7
	Asian/Pacific Islander[a]	4	0.8	1	0.2	6	1.4	0	0.0	11	0.6
	Black/African American[a]	294	60.6	294	62.8	257	60.5	263	61.0	1,108	61.2
	Hispanic/Latino	40	8.2	34	7.3	34	8.0	39	9.0	147	8.1
	White/Caucasian[a]	125	25.8	113	24.1	109	25.6	108	25.1	455	25.2
	Multiple Race	9	1.9	10	2.1	8	1.9	4	0.9	31	1.7
	Unknown	10	2.1	14	3.0	8	1.9	13	3.0	45	2.5
	Total	485	100.0	468	100.0	425	100.0	431	100.0	1,809	100.0

[a]Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 7. North Carolina Newly Diagnosed Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec
ALAMANCE	833	906	913	381	273	253	23	13	13	24	9	11
ALEXANDER	90	67	74	15	26	19	1	0	0	0	1	0
ALLEGHANY	16	26	36	1	2	4	0	0	0	0	0	0
ANSON	173	166	179	101	61	69	4	2	3	0	1	0
ASHE	42	41	40	6	4	6	0	0	0	0	0	0
AVERY	32	33	30	6	5	7	0	0	1	0	0	0
BEAUFORT	254	255	283	62	77	74	4	1	1	2	0	2
BERTIE	130	153	149	38	47	46	1	2	1	1	1	2
BLADEN	182	166	143	76	91	75	0	1	2	0	3	1
BRUNSWICK	349	400	432	136	135	169	4	8	3	3	5	3
BUNCOMBE	998	1,102	1,132	254	452	401	25	33	13	11	13	13
BURKE	285	334	352	69	165	188	5	8	1	2	7	1
CABARRUS	922	976	1,133	251	255	326	6	11	14	9	10	8
CALDWELL	208	240	286	57	104	146	3	2	2	1	4	4
CAMDEN	23	24	34	4	7	6	0	0	0	0	0	0
CARTERET	194	223	240	44	41	37	2	0	2	0	1	0
CASWELL	92	122	94	40	39	25	2	1	1	1	0	1
CATAWBA	583	622	650	125	294	267	3	11	21	6	7	7
CHATHAM	157	195	210	39	55	41	4	3	2	0	1	0
CHEROKEE	38	42	51	8	12	19	0	0	0	0	0	0
CHOWAN	87	101	83	27	37	43	0	1	1	0	0	0
CLAY	14	18	20	2	1	2	0	0	0	0	0	0
CLEVELAND	508	567	665	254	348	412	3	6	3	3	2	5
COLUMBUS	313	309	290	99	215	128	1	7	1	2	4	1
CRAVEN	727	813	816	230	184	225	6	5	7	3	5	8
CUMBERLAND	3,360	3,649	3,761	1,246	1,485	1,439	52	48	60	29	33	50
CURRITUCK	67	61	70	10	15	20	0	1	0	0	1	1
DARE	69	108	112	9	27	20	0	0	0	1	1	0
DAVIDSON	681	665	682	286	282	288	5	8	3	6	7	5
DAVIE	131	136	89	39	45	27	2	2	2	0	0	1
DUPLIN	218	275	319	87	88	94	1	3	4	2	1	3
DURHAM	2,426	2,739	2,809	966	1,073	1,082	68	78	108	53	47	63
EDGECOMBE	497	501	519	189	237	278	9	8	3	7	9	2
FORSYTH	2,626	2,525	2,690	1,050	962	1,088	56	56	53	30	25	46
FRANKLIN	265	330	305	67	127	134	1	1	4	1	1	1
GASTON	1,279	1,382	1,561	476	533	650	26	19	21	13	15	16
GATES	42	46	28	19	13	8	0	0	0	0	0	1
GRAHAM	17	21	14	1	3	5	0	0	0	0	0	0
GRANVILLE	487	476	456	107	134	135	6	3	13	4	6	2
GREENE	157	146	168	46	49	52	1	2	0	1	0	0
GUILFORD	4,605	4,988	5,085	1,776	1,908	1,912	92	116	81	77	70	61
HALIFAX	369	419	465	111	162	169	6	5	2	1	4	6
HARNETT	605	693	751	164	191	244	5	6	3	5	2	9
HAYWOOD	133	139	169	13	42	51	7	7	2	1	2	1
HENDERSON	286	325	333	57	103	103	6	10	2	2	4	3
HERTFORD	166	155	183	39	46	64	1	0	1	1	3	2
HOKE	352	387	366	151	158	138	1	5	2	3	4	6
HYDE	16	25	18	2	6	3	0	0	0	1	1	0
IREDELL	613	767	722	152	363	221	7	12	9	3	3	7
JACKSON	152	206	202	26	83	65	6	3	1	1	0	1
JOHNSTON	727	837	878	223	261	244	11	8	14	10	10	4
JONES	40	61	45	19	19	17	2	2	0	0	0	1

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 7 (Continued). North Carolina Newly Diagnosed Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec
LEE	333	328	282	143	98	78	3	3	0	3	1	2
LENOIR	449	474	534	157	202	234	6	4	6	7	1	4
LINCOLN	226	257	319	58	76	98	8	3	4	2	1	4
MACON	70	98	100	13	14	31	1	2	2	0	0	1
MADISON	55	53	71	5	15	16	1	0	1	1	0	1
MARTIN	131	143	169	33	32	60	1	2	2	2	1	0
MCDOWELL	163	177	145	34	100	69	4	1	4	0	0	2
MECKLENBURG	7,978	8,830	9,140	2,781	3,184	3,172	294	265	221	192	187	160
MITCHELL	34	33	35	11	7	2	0	0	0	0	1	0
MONTGOMERY	125	156	140	43	34	30	2	1	0	1	3	1
MOORE	342	326	380	94	89	80	2	1	2	2	3	0
NASH	644	640	669	223	306	280	19	11	8	14	8	7
NEW HANOVER	1,170	1,257	1,204	476	406	386	5	36	24	8	16	25
NORTHAMPTON	114	128	171	38	72	63	2	3	1	6	0	0
ONSLOW	1,738	1,779	2,056	307	381	512	9	15	16	9	9	11
ORANGE	692	776	686	175	229	185	6	11	11	5	5	7
PAMLICO	21	43	31	10	11	3	1	0	0	0	0	0
PASQUOTANK	278	326	314	60	88	126	1	3	3	2	0	0
PENDER	198	225	202	72	46	58	2	5	1	2	2	3
PERQUIMANS	53	76	60	16	13	22	0	0	0	0	0	0
PERSON	209	240	175	79	75	48	5	4	3	1	1	1
PITT	1,904	2,095	2,009	665	684	632	26	19	26	19	10	20
POLK	39	47	37	9	13	9	0	1	2	0	0	0
RANDOLPH	420	468	504	185	153	176	8	9	3	4	2	4
RICHMOND	370	438	402	106	114	171	1	2	1	5	1	1
ROBESON	1,218	1,269	1,146	516	590	503	13	15	16	15	11	14
ROCKINGHAM	377	354	400	189	181	131	2	4	3	5	9	2
ROWAN	735	927	948	203	255	343	11	13	9	4	5	7
RUTHERFORD	223	244	283	83	152	178	4	2	0	0	3	0
SAMPSON	324	282	316	136	98	106	4	3	3	2	6	3
SCOTLAND	305	312	301	90	155	149	4	2	3	5	1	3
STANLY	247	239	266	72	59	70	0	6	0	2	2	0
STOKES	118	101	115	32	26	40	0	0	0	1	1	1
SURRY	185	213	204	34	46	43	2	3	1	2	1	3
SWAIN	109	88	116	24	36	50	1	0	0	0	0	0
TRANSYLVANIA	62	71	77	7	14	24	1	0	0	1	2	0
TYRRELL	16	16	18	0	3	1	0	0	0	0	0	0
UNION	805	816	982	267	203	282	9	18	11	8	13	4
VANCE	490	471	485	224	255	262	9	2	7	4	3	2
WAKE	5,518	6,083	6,390	1,628	2,080	2,124	127	128	147	122	120	96
WARREN	123	108	124	36	35	37	0	1	2	1	0	1
WASHINGTON	84	83	89	16	20	26	1	1	0	1	0	0
WATAUGA	202	267	269	28	22	33	2	2	2	0	1	0
WAYNE	830	796	904	419	337	309	12	13	5	8	3	8
WILKES	153	175	183	27	48	51	1	1	2	0	1	0
WILSON	468	516	659	231	259	236	5	12	12	9	7	7
YADKIN	76	72	85	17	25	19	1	1	1	1	0	0
YANCEY	24	28	34	2	9	8	0	0	0	0	1	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	58,084	62,907	65,364	19,730	22,695	23,105	1,084	1,146	1,045	796	765	764

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 4, 2019).

Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec
ALAMANCE	18	22	21
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	5	4	3
ASHE	2	0	0
AVERY	1	0	0
BEAUFORT	3	5	6
BERTIE	4	2	2
BLADEN	2	4	5
BRUNSWICK	9	9	8
BUNCOMBE	21	20	13
BURKE	5	5	4
CABARRUS	25	14	15
CALDWELL	4	6	4
CAMDEN	1	0	1
CARTERET	2	1	3
CASWELL	2	1	3
CATAWBA	10	7	16
CHATHAM	3	5	3
CHEROKEE	2	1	2
CHOWAN	2	0	0
CLAY	0	0	0
CLEVELAND	10	12	8
COLUMBUS	2	10	4
CRAVEN	10	4	9
CUMBERLAND	65	71	64
CURRITUCK	1	0	0
DARE	2	3	2
DAVIDSON	11	11	16
DAVIE	2	4	2
DUPLIN	2	6	5
DURHAM	85	65	61
EDGECOMBE	8	15	13
FORSYTH	83	68	68
FRANKLIN	4	6	4
GASTON	20	25	32
GATES	1	0	0
GRAHAM	0	0	0
GRANVILLE	6	6	9
GREENE	1	3	0
GUILFORD	139	129	114
HALIFAX	5	10	4
HARNETT	10	16	13
HAYWOOD	2	3	5
HENDERSON	9	7	8
HERTFORD	1	2	5
HOKE	3	4	9
HYDE	1	0	0
IREDELL	5	11	11
JACKSON	0	3	0
JOHNSTON	13	9	16
JONES	0	2	1
LEE	5	4	8
LENOIR	7	5	10
LINCOLN	3	3	7
MACON	2	1	0
MADISON	2	0	2
MARTIN	3	2	1
MCDOWELL	1	0	0
MECKLENBURG	267	270	268
MITCHELL	1	0	0
MONTGOMERY	0	3	0
MOORE	6	1	5
NASH	16	10	11
NEW HANOVER	25	33	23
NORTHAMPTON	4	3	0
ONSLOW	22	19	10
ORANGE	10	5	10
PAMLICO	0	1	0
PASQUOTANK	5	7	11
PENDER	9	3	4
PERQUIMANS	0	1	0
PERSON	5	4	5
PITT	31	38	32
POLK	1	0	0
RANDOLPH	10	7	4
RICHMOND	7	6	7
ROBESON	19	17	18
ROCKINGHAM	10	9	8
ROWAN	19	15	13
RUTHERFORD	2	5	1
SAMPSON	11	13	2
SCOTLAND	3	3	3
STANLY	6	0	2
STOKES	2	1	2
SURRY	3	0	2
SWAIN	0	0	0
TRANSYLVANIA	0	1	1
TYRRELL	2	0	0
UNION	22	15	18
VANCE	9	6	8
WAKE	170	128	116
WARREN	1	1	4
WASHINGTON	2	1	3
WATAUGA	2	2	1
WAYNE	11	15	12
WILKES	4	2	3
WILSON	9	14	15
YADKIN	2	3	2
YANCEY	1	0	0
UNASSIGNED*	23	16	14
TOTAL	1,397	1,304	1,258

* Unassigned includes cases with unknown county of residence at diagnosis or cases that were diagnosed at a long-term care facility such as prison.
Data Source: enhanced HIV/AIDS Reporting System (eHARS) (data as of February 4, 2019).

Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	2016 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec
ALAMANCE	11	11	7
ALEXANDER	3	1	0
ALLEGHANY	0	0	0
ANSON	1	1	2
ASHE	0	0	0
AVERY	0	0	1
BEAUFORT	3	2	1
BERTIE	3	2	4
BLADEN	2	4	2
BRUNSWICK	5	4	1
BUNCOMBE	7	14	7
BURKE	5	1	1
CABARRUS	11	4	2
CALDWELL	5	1	2
CAMDEN	1	0	1
CARTERET	0	1	1
CASWELL	0	2	2
CATAWBA	2	2	6
CHATHAM	2	3	0
CHEROKEE	1	1	0
CHOWAN	1	0	0
CLAY	0	1	0
CLEVELAND	9	5	4
COLUMBUS	1	3	2
CRAVEN	4	2	4
CUMBERLAND	33	24	38
CURRITUCK	0	0	0
DARE	0	1	0
DAVIDSON	9	7	14
DAVIE	1	0	0
DUPLIN	1	5	3
DURHAM	32	33	30
EDGECOMBE	8	9	4
FORSYTH	30	43	46
FRANKLIN	1	2	3
GASTON	12	16	13
GATES	0	0	1
GRAHAM	0	0	0
GRANVILLE	5	5	7
GREENE	0	2	2
GUILFORD	30	30	23
HALIFAX	2	4	0
HARNETT	2	9	5
HAYWOOD	0	2	1
HENDERSON	2	5	3
HERTFORD	1	1	1
HOKE	3	3	2
HYDE	0	0	0
IREDELL	3	8	3
JACKSON	0	1	0
JOHNSTON	8	5	9
JONES	0	1	1
LEE	6	4	0
LENOIR	7	5	6
LINCOLN	1	1	2
MACON	1	0	0
MADISON	0	0	1
MARTIN	2	2	2
MCDOWELL	1	1	0
MECKLENBURG	123	93	55
MITCHELL	1	0	0
MONTGOMERY	1	1	0
MOORE	3	1	1
NASH	10	8	7
NEW HANOVER	7	8	5
NORTHAMPTON	3	3	3
ONSLOW	6	7	6
ORANGE	4	2	3
PAMLICO	0	0	0
PASQUOTANK	1	5	4
PENDER	1	0	0
PERQUIMANS	2	0	1
PERSON	1	1	3
PITT	15	21	22
POLK	1	0	1
RANDOLPH	2	3	5
RICHMOND	2	6	4
ROBESON	14	9	11
ROCKINGHAM	1	3	7
ROWAN	7	10	3
RUTHERFORD	3	3	4
SAMPSON	2	5	4
SCOTLAND	5	1	6
STANLY	3	0	3
STOKES	0	1	1
SURRY	0	0	2
SWAIN	0	0	0
TRANSYLVANIA	0	1	0
TYRRELL	1	0	0
UNION	7	9	2
VANCE	2	3	4
WAKE	66	66	57
WARREN	0	3	0
WASHINGTON	0	0	1
WATAUGA	0	1	0
WAYNE	11	8	10
WILKES	1	2	2
WILSON	8	6	4
YADKIN	1	1	0
YANCEY	1	0	0
UNASSIGNED*	4	7	3
TOTAL	598	592	514

* Unassigned includes cases with unknown county of residence at diagnosis or cases that were diagnosed at a long-term care facility such as prison.
Data Source: enhanced HIV/AIDS Reporting System (eHARS) (data as of February 4, 2019).