North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2019, 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. 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. 2019, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2019. 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 (https://epi.dph.ncdhhs.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 https://epi.dph.ncdhhs.gov/cd/stds/figures.html.

Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	1	0.0	1	0.0	0	0.0	2	0.0
	0-9	2	0.0	0	0.0	2	0.0	0	0.0	4	0.0
	10-14	7	0.0	16	0.1	13	0.1	12	0.1	48	0.1
	15-19	1,137	6.3	1,016	5.9	1,135	6.2	1,007	6.6	4,295	6.2
	20-24	2,284	12.8	2,075	12.1	2,275	12.4	1,812	11.8	8,446	12.3
	25-29	1,183	6.6	1,225	7.1	1,232	6.7	1,035	6.8	4,675	6.8
	30-34	519	2.9	625	3.6	645	3.5	543	3.5	2,332	3.4
	35-39	285	1.6	296	1.7	321	1.7	277	1.8	1,179	1.7
	40-44	160	0.9	147	0.9	194	1.1	170	1.1	671	1.0
	45-54	160	0.9	153	0.9	190	1.0	137	0.9	640	0.9
	55-64	46	0.3	64	0.4	81	0.4	54	0.4	245	0.4
	65+	9	0.1	11	0.1	16	0.1	9	0.1	45	0.1
	Total	5,792	32.3	5,629	32.8	6,105	33.2	5,056	33.0	22,582	32.8
Female	Unknown	0	0.0	0	0.0	2	0.0	1	0.0	3	0.0
	0-9	4	0.0	4	0.0	2	0.0	3	0.0	13	0.0
	10-14	99	0.6	102	0.6	125	0.7	79	0.5	405	0.6
	15-19	3,979	22.2	3,666	21.3	3,924	21.3	3,341	21.8	14,910	21.7
	20-24	4,474	25.0	4,372	25.4	4,650	25.3	3,761	24.6	17,257	25.1
	25-29	2,098	11.7	1,975	11.5	2,051	11.1	1,741	11.4	7,865	11.4
	30-34	818	4.6	790	4.6	811	4.4	742	4.8	3,161	4.6
	35-39	326	1.8	344	2.0	368	2.0	297	1.9	1,335	1.9
	40-44	166	0.9	170	1.0	192	1.0	138	0.9	666	1.0
	45-54	121	0.7	102	0.6	139	0.8	119	0.8	481	0.7
	55-64	26	0.1	29	0.2	32	0.2	18	0.1	105	0.2
	65+	5	0.0	3	0.0	4	0.0	2	0.0	14	0.0
	Total	12,116	67.7	11,557	67.2	12,300	66.8	10,242	66.9	46,215	67.2
Total[a]	Unknown	0	0.0	1	0.0	3	0.0	1	0.0	5	0.0
	0-9	6	0.0	4	0.0	4	0.0	3	0.0	17	0.0
	10-14	106	0.6	118	0.7	138	0.7	91	0.6	453	0.7
	15-19	5,116	28.6	4,682	27.2	5,059	27.5	4,348	28.4	19,205	27.9
	20-24	6,758	37.7	6,447	37.5	6,925	37.6	5,574	36.4	25,704	37.4
	25-29	3,281	18.3	3,200	18.6	3,283	17.8	2,776	18.1	12,540	18.2
	30-34	1,337	7.5	1,415	8.2	1,456	7.9	1,285	8.4	5,493	8.0
	35-39	611	3.4	640	3.7	689	3.7	574	3.8	2,514	3.7
	40-44	326	1.8	317	1.8	386	2.1	308	2.0	1,337	1.9
	45-54	281	1.6	255	1.5	329	1.8	256	1.7	1,121	1.6
	55-64	72	0.4	93	0.5	113	0.6	72	0.5	350	0.5
	65+	14	0.1	14	0.1	20	0.1	11	0.1	59	0.1
	Total	17,908	100.0	17,186	100.0	18,405	100.0	15,299	100.0	68,798	100.0

[a]Total includes 1 case with unreported gender (1 case in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2019

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	31	0.2	30	0.2	28	0.2	36	0.2	125	0.2
	Asian/Pacific Islander[a]	28	0.2	22	0.1	33	0.2	25	0.2	108	0.2
	Black/African American[a]	2,268	12.7	2,228	13.0	2,357	12.8	1,934	12.6	8,787	12.8
	Hispanic/Latino	333	1.9	311	1.8	335	1.8	277	1.8	1,256	1.8
	White/Caucasian[a]	946	5.3	875	5.1	952	5.2	774	5.1	3,547	5.2
	Multiple Race	9	0.1	8	0.0	8	0.0	7	0.0	32	0.0
	Unknown	2,177	12.2	2,155	12.5	2,392	13.0	2,003	13.1	8,727	12.7
	Total	5,792	32.3	5,629	32.8	6,105	33.2	5,056	33.0	22,582	32.8
Female	American Indian/Alaska Native[a]	117	0.7	105	0.6	113	0.6	90	0.6	425	0.6
	Asian/Pacific Islander[a]	70	0.4	76	0.4	82	0.4	71	0.5	299	0.4
	Black/African American[a]	4,505	25.2	4,331	25.2	4,384	23.8	3,714	24.3	16,934	24.6
	Hispanic/Latino	957	5.3	921	5.4	962	5.2	729	4.8	3,569	5.2
	White/Caucasian[a]	2,579	14.4	2,303	13.4	2,568	14.0	2,141	14.0	9,591	13.9
	Multiple Race	24	0.1	28	0.2	34	0.2	29	0.2	115	0.2
	Unknown	3,864	21.6	3,793	22.1	4,157	22.6	3,468	22.7	15,282	22.2
	Total	12,116	67.7	11,557	67.2	12,300	66.8	10,242	66.9	46,215	67.2
Total[b]	American Indian/Alaska Native[a]	148	0.8	135	0.8	141	0.8	126	0.8	550	0.8
	Asian/Pacific Islander[a]	98	0.5	98	0.6	115	0.6	96	0.6	407	0.6
	Black/African American[a]	6,773	37.8	6,559	38.2	6,741	36.6	5,649	36.9	25,722	37.4
	Hispanic/Latino	1,290	7.2	1,232	7.2	1,297	7.0	1,006	6.6	4,825	7.0
	White/Caucasian[a]	3,525	19.7	3,178	18.5	3,520	19.1	2,915	19.1	13,138	19.1
	Multiple Race	33	0.2	36	0.2	42	0.2	36	0.2	147	0.2
	Unknown	6,041	33.7	5,948	34.6	6,549	35.6	5,471	35.8	24,009	34.9
	Total	17,908	100.0	17,186	100.0	18,405	100.0	15,299	100.0	68,798	100.0

[a]Non-Hispanic/Latino.
[b]Total includes 1 case with unreported gender (1 case in Quarter 4).
Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
	0-9	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
	10-14	3	0.0	5	0.1	12	0.2	6	0.1	26	0.1
	15-19	416	6.6	360	5.7	439	6.2	343	5.9	1,558	6.1
	20-24	874	13.8	904	14.3	992	14.1	806	13.9	3,576	14.0
	25-29	793	12.5	818	12.9	812	11.5	724	12.5	3,147	12.3
	30-34	459	7.2	483	7.6	535	7.6	441	7.6	1,918	7.5
	35-39	267	4.2	293	4.6	353	5.0	262	4.5	1,175	4.6
	40-44	148	2.3	181	2.9	211	3.0	154	2.7	694	2.7
	45-54	226	3.6	193	3.1	234	3.3	198	3.4	851	3.3
	55-64	94	1.5	90	1.4	108	1.5	87	1.5	379	1.5
	65+	16	0.3	17	0.3	24	0.3	17	0.3	74	0.3
	Total	3,296	51.9	3,344	52.9	3,722	52.9	3,038	52.6	13,400	52.6
Female	Unknown	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
	0-9	2	0.0	3	0.0	2	0.0	0	0.0	7	0.0
	10-14	22	0.3	34	0.5	26	0.4	13	0.2	95	0.4
	15-19	736	11.6	658	10.4	769	10.9	661	11.4	2,824	11.1
	20-24	986	15.5	971	15.4	1,076	15.3	902	15.6	3,935	15.4
	25-29	668	10.5	630	10.0	677	9.6	579	10.0	2,554	10.0
	30-34	303	4.8	339	5.4	377	5.4	298	5.2	1,317	5.2
	35-39	174	2.7	177	2.8	178	2.5	131	2.3	660	2.6
	40-44	83	1.3	83	1.3	105	1.5	75	1.3	346	1.4
	45-54	62	1.0	66	1.0	80	1.1	63	1.1	271	1.1
	55-64	13	0.2	14	0.2	19	0.3	19	0.3	65	0.3
	65+	3	0.0	5	0.1	5	0.1	2	0.0	15	0.1
	Total	3,053	48.1	2,980	47.1	3,314	47.1	2,743	47.4	12,090	47.4
Total	Unknown	1	0.0	0	0.0	1	0.0	0	0.0	2	0.0
	0-9	2	0.0	3	0.0	3	0.0	0	0.0	8	0.0
	10-14	25	0.4	39	0.6	38	0.5	19	0.3	121	0.5
	15-19	1,152	18.1	1,018	16.1	1,208	17.2	1,004	17.4	4,382	17.2
	20-24	1,860	29.3	1,875	29.6	2,068	29.4	1,708	29.5	7,511	29.5
	25-29	1,461	23.0	1,448	22.9	1,489	21.2	1,303	22.5	5,701	22.4
	30-34	762	12.0	822	13.0	912	13.0	739	12.8	3,235	12.7
	35-39	441	6.9	470	7.4	531	7.5	393	6.8	1,835	7.2
	40-44	231	3.6	264	4.2	316	4.5	229	4.0	1,040	4.1
	45-54	288	4.5	259	4.1	314	4.5	261	4.5	1,122	4.4
	55-64	107	1.7	104	1.6	127	1.8	106	1.8	444	1.7
	65+	19	0.3	22	0.3	29	0.4	19	0.3	89	0.3
	Total	6,349	100.0	6,324	100.0	7,036	100.0	5,781	100.0	25,490	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2019

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	34	0.5	35	0.6	28	0.4	20	0.3	117	0.5
	Asian/Pacific Islander[a]	18	0.3	11	0.2	8	0.1	7	0.1	44	0.2
	Black/African American[a]	1,793	28.2	1,785	28.2	1,918	27.3	1,601	27.7	7,097	27.8
	Hispanic/Latino	123	1.9	129	2.0	122	1.7	114	2.0	488	1.9
	White/Caucasian[a]	482	7.6	414	6.5	544	7.7	419	7.2	1,859	7.3
	Multiple Race	4	0.1	8	0.1	12	0.2	15	0.3	39	0.2
	Unknown	842	13.3	962	15.2	1,090	15.5	862	14.9	3,756	14.7
	Total	3,296	51.9	3,344	52.9	3,722	52.9	3,038	52.6	13,400	52.6
Female	American Indian/Alaska Native[a]	56	0.9	52	0.8	51	0.7	31	0.5	190	0.7
	Asian/Pacific Islander[a]	10	0.2	7	0.1	7	0.1	7	0.1	31	0.1
	Black/African American[a]	1,427	22.5	1,393	22.0	1,535	21.8	1,237	21.4	5,592	21.9
	Hispanic/Latino	100	1.6	79	1.2	109	1.5	73	1.3	361	1.4
	White/Caucasian[a]	639	10.1	634	10.0	636	9.0	568	9.8	2,477	9.7
	Multiple Race	6	0.1	8	0.1	10	0.1	7	0.1	31	0.1
	Unknown	815	12.8	807	12.8	966	13.7	820	14.2	3,408	13.4
	Total	3,053	48.1	2,980	47.1	3,314	47.1	2,743	47.4	12,090	47.4
Total	American Indian/Alaska Native[a]	90	1.4	87	1.4	79	1.1	51	0.9	307	1.2
	Asian/Pacific Islander[a]	28	0.4	18	0.3	15	0.2	14	0.2	75	0.3
	Black/African American[a]	3,220	50.7	3,178	50.3	3,453	49.1	2,838	49.1	12,689	49.8
	Hispanic/Latino	223	3.5	208	3.3	231	3.3	187	3.2	849	3.3
	White/Caucasian[a]	1,121	17.7	1,048	16.6	1,180	16.8	987	17.1	4,336	17.0
	Multiple Race	10	0.2	16	0.3	22	0.3	22	0.4	70	0.3
	Unknown	1,657	26.1	1,769	28.0	2,056	29.2	1,682	29.1	7,164	28.1
	Total	6,349	100.0	6,324	100.0	7,036	100.0	5,781	100.0	25,490	100.0

[a]Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 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	16	3.0	18	3.5	18	3.3	10	2.2	62	3.0
	20-24	69	13.1	71	13.8	78	14.1	64	14.1	282	13.8
	25-29	112	21.3	97	18.9	114	20.6	88	19.3	411	20.1
	30-34	73	13.9	77	15.0	66	11.9	71	15.6	287	14.0
	35-39	47	8.9	39	7.6	55	9.9	45	9.9	186	9.1
	40-44	28	5.3	28	5.5	38	6.9	32	7.0	126	6.2
	45-54	78	14.8	54	10.5	56	10.1	42	9.2	230	11.2
	55-64	28	5.3	23	4.5	16	2.9	35	7.7	102	5.0
	65+	2	0.4	3	0.6	10	1.8	6	1.3	21	1.0
	Total	453	86.0	410	79.9	451	81.6	393	86.4	1,707	83.3
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	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	4	0.8	7	1.4	6	1.1	4	0.9	21	1.0
	20-24	12	2.3	21	4.1	22	4.0	13	2.9	68	3.3
	25-29	14	2.7	20	3.9	23	4.2	7	1.5	64	3.1
	30-34	14	2.7	21	4.1	19	3.4	8	1.8	62	3.0
	35-39	12	2.3	4	0.8	9	1.6	8	1.8	33	1.6
	40-44	5	0.9	13	2.5	7	1.3	12	2.6	37	1.8
	45-54	11	2.1	11	2.1	11	2.0	7	1.5	40	2.0
	55-64	2	0.4	4	0.8	4	0.7	3	0.7	13	0.6
	65+	0	0.0	2	0.4	1	0.2	0	0.0	3	0.1
	Total	74	14.0	103	20.1	102	18.4	62	13.6	341	16.7
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	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	20	3.8	25	4.9	24	4.3	14	3.1	83	4.1
	20-24	81	15.4	92	17.9	100	18.1	77	16.9	350	17.1
	25-29	126	23.9	117	22.8	137	24.8	95	20.9	475	23.2
	30-34	87	16.5	98	19.1	85	15.4	79	17.4	349	17.0
	35-39	59	11.2	43	8.4	64	11.6	53	11.6	219	10.7
	40-44	33	6.3	41	8.0	45	8.1	44	9.7	163	8.0
	45-54	89	16.9	65	12.7	67	12.1	49	10.8	270	13.2
	55-64	30	5.7	27	5.3	20	3.6	38	8.4	115	5.6
	65+	2	0.4	5	1.0	11	2.0	6	1.3	24	1.2
	Total	527	100.0	513	100.0	553	100.0	455	100.0	2,048	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2019

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2019 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native[a]	3	0.6	4	0.8	3	0.5	2	0.4	12	0.6
	Asian/Pacific Islander[a]	4	0.8	3	0.6	4	0.7	1	0.2	12	0.6
	Black/African American[a]	288	54.6	239	46.6	272	49.2	244	53.6	1,043	50.9
	Hispanic/Latino	46	8.7	33	6.4	42	7.6	35	7.7	156	7.6
	White/Caucasian[a]	97	18.4	109	21.2	114	20.6	92	20.2	412	20.1
	Multiple Race	9	1.7	11	2.1	2	0.4	4	0.9	26	1.3
	Unknown	6	1.1	11	2.1	14	2.5	15	3.3	46	2.2
	Total	453	86.0	410	79.9	451	81.6	393	86.4	1,707	83.3
Female	American Indian/Alaska Native[a]	0	0.0	0	0.0	0	0.0	1	0.2	1	0.0
	Asian/Pacific Islander[a]	1	0.2	1	0.2	2	0.4	0	0.0	4	0.2
	Black/African American[a]	56	10.6	63	12.3	67	12.1	39	8.6	225	11.0
	Hispanic/Latino	3	0.6	10	1.9	6	1.1	3	0.7	22	1.1
	White/Caucasian[a]	11	2.1	24	4.7	24	4.3	17	3.7	76	3.7
	Multiple Race	3	0.6	2	0.4	1	0.2	1	0.2	7	0.3
	Unknown	0	0.0	3	0.6	2	0.4	1	0.2	6	0.3
	Total	74	14.0	103	20.1	102	18.4	62	13.6	341	16.7
Total[c]	American Indian/Alaska Native[a]	3	0.6	4	0.8	3	0.5	3	0.7	13	0.6
	Asian/Pacific Islander[a]	5	0.9	4	0.8	6	1.1	1	0.2	16	0.8
	Black/African American[a]	344	65.3	302	58.9	339	61.3	283	62.2	1,268	61.9
	Hispanic/Latino	49	9.3	43	8.4	48	8.7	38	8.4	178	8.7
	White/Caucasian[a]	108	20.5	133	25.9	138	25.0	109	24.0	488	23.8
	Multiple Race	12	2.3	13	2.5	3	0.5	5	1.1	33	1.6
	Unknown	6	1.1	14	2.7	16	2.9	16	3.5	52	2.5
	Total	527	100.0	513	100.0	553	100.0	455	100.0	2,048	100.0

[a]Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

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, 2017-2019

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec
ALAMANCE	906	936	1,041	273	262	250	13	14	16	9	13	22
ALEXANDER	67	75	77	26	21	42	0	0	0	1	0	0
ALLEGHANY	26	38	23	2	6	3	0	0	0	0	0	0
ANSON	166	181	242	61	69	73	2	3	2	1	0	2
ASHE	41	40	28	4	6	6	0	0	0	0	0	2
AVERY	33	30	33	5	7	4	0	1	0	0	0	0
BEAUFORT	255	290	299	77	75	138	1	1	2	0	2	2
BERTIE	154	164	121	47	51	57	2	1	0	1	2	5
BLADEN	166	144	167	91	75	111	1	2	2	3	1	1
BRUNSWICK	400	443	459	135	170	157	8	3	6	5	4	7
BUNCOMBE	1,102	1,139	1,224	452	402	454	33	13	28	13	13	12
BURKE	334	356	354	165	188	170	8	1	3	7	1	2
CABARRUS	976	1,135	1,214	255	326	315	11	15	15	10	10	12
CALDWELL	240	289	329	104	149	207	2	2	3	4	4	0
CAMDEN	24	38	23	7	9	6	0	0	0	0	0	0
CARTERET	223	242	234	41	39	42	0	2	2	1	0	2
CASWELL	122	98	88	39	27	17	1	1	3	0	1	1
CATAWBA	622	656	676	294	267	291	11	21	13	7	7	5
CHATHAM	195	212	222	55	40	40	3	2	1	1	0	0
CHEROKEE	42	52	45	12	19	30	0	0	1	0	0	0
CHOWAN	101	95	74	37	47	58	1	1	3	0	0	3
CLAY	18	22	26	1	2	10	0	0	0	0	0	1
CLEVELAND	567	665	636	348	414	302	6	3	7	2	5	4
COLUMBUS	309	298	299	215	132	135	7	1	5	4	1	7
CRAVEN	813	820	754	184	229	174	5	7	7	5	8	7
CUMBERLAND	3,649	4,065	4,220	1,485	1,488	1,689	47	63	55	32	53	55
CURRITUCK	61	77	47	15	21	13	1	0	1	1	1	2
DARE	108	112	75	27	20	18	0	0	2	1	0	0
DAVIDSON	666	692	641	282	293	405	8	3	8	7	5	9
DAVIE	137	131	101	45	39	32	2	2	0	0	1	4
DUPLIN	275	323	311	88	95	94	3	4	2	1	3	1
DURHAM	2,739	2,865	2,875	1,073	1,107	1,077	77	110	97	48	64	71
EDGECOMBE	501	522	627	237	278	302	8	3	3	9	3	2
FORSYTH	2,525	2,849	2,917	962	1,170	1,458	56	54	56	25	46	40
FRANKLIN	330	348	327	127	155	159	1	4	7	1	1	4
GASTON	1,382	1,577	1,647	533	657	584	19	21	22	15	19	14
GATES	46	39	49	13	14	12	0	0	2	0	1	0
GRAHAM	21	17	18	3	5	3	0	0	0	0	0	0
GRANVILLE	476	459	412	134	137	170	3	13	9	5	3	5
GREENE	146	169	174	49	53	54	2	0	0	0	0	3
GUILFORD	4,988	5,162	5,093	1,908	1,969	2,189	116	87	79	70	62	98
HALIFAX	419	492	424	162	180	199	5	2	3	4	6	5
HARNETT	693	761	768	191	244	274	6	3	7	2	9	6
HAYWOOD	139	169	174	42	51	74	7	2	4	2	1	1
HENDERSON	325	337	320	103	106	138	10	2	1	4	3	0
HERTFORD	155	194	142	46	67	64	0	1	1	3	2	3
HOKE	387	400	393	158	151	175	5	2	3	4	6	7
HYDE	25	18	6	6	3	4	0	0	0	1	0	1
IREDELL	767	729	756	363	222	243	12	9	9	3	7	9
JACKSON	206	205	265	83	65	44	3	1	2	0	1	0
JOHNSTON	837	883	965	261	245	321	8	14	12	10	4	11
JONES	61	49	47	19	20	18	2	0	0	0	1	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

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, 2017-2019

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec
LEE	328	286	334	98	79	81	3	1	4	1	2	1
LENOIR	474	541	560	202	235	215	4	6	3	1	4	5
LINCOLN	257	324	294	76	98	97	3	4	2	1	4	2
MACON	98	101	75	14	32	24	2	2	0	0	1	2
MADISON	53	71	70	15	16	16	0	1	1	0	1	0
MARTIN	143	170	187	32	62	52	2	2	4	1	0	4
MCDOWELL	177	146	166	100	70	81	1	4	0	0	2	1
MECKLENBURG	8,830	9,208	9,911	3,184	3,192	3,292	265	251	226	187	175	207
MITCHELL	33	36	38	7	2	5	0	0	0	1	0	0
MONTGOMERY	156	141	126	34	30	41	1	0	0	3	2	0
MOORE	326	391	406	89	81	130	1	2	1	3	0	2
NASH	640	680	762	306	282	415	11	8	13	8	7	11
NEW HANOVER	1,257	1,216	1,282	406	387	426	36	25	24	16	25	21
NORTHAMPTON	128	176	172	72	65	74	3	1	2	0	0	0
ONSLOW	1,779	2,093	2,258	381	518	498	15	16	14	9	11	10
ORANGE	776	692	738	229	189	175	11	10	9	5	7	9
PAMLICO	43	33	34	11	6	7	0	0	0	0	0	0
PASQUOTANK	326	323	289	88	128	133	3	3	0	0	0	2
PENDER	225	205	200	46	58	47	5	1	2	2	3	1
PERQUIMANS	76	60	56	13	23	35	0	0	0	0	0	0
PERSON	240	177	203	75	49	48	4	4	7	1	2	1
PITT	2,095	2,050	2,150	684	645	818	19	26	16	10	21	18
POLK	47	37	34	13	9	20	1	2	1	0	0	1
RANDOLPH	468	509	551	153	177	155	9	3	3	2	4	1
RICHMOND	438	407	417	114	174	235	2	1	5	1	1	0
ROBESON	1,269	1,157	1,289	590	507	693	15	17	13	10	16	12
ROCKINGHAM	354	419	443	181	144	188	4	3	1	9	2	2
ROWAN	927	951	882	255	346	374	13	9	10	5	7	13
RUTHERFORD	244	284	285	152	179	165	2	0	4	3	0	0
SAMPSON	282	323	390	98	107	115	3	3	3	6	3	2
SCOTLAND	313	314	345	155	155	170	2	4	3	1	3	2
STANLY	239	268	283	59	70	73	6	0	2	2	0	1
STOKES	101	115	109	26	40	42	0	0	2	1	1	0
SURRY	213	207	191	46	43	61	3	1	0	1	4	0
SWAIN	88	118	122	36	50	34	0	0	0	0	0	0
TRANSYLVANIA	71	77	92	14	24	45	0	0	2	2	0	1
TYRRELL	16	18	14	3	1	3	0	0	0	0	0	0
UNION	816	988	1,081	203	286	278	18	11	13	13	4	7
VANCE	471	491	499	255	265	282	2	7	8	3	2	4
WAKE	6,083	6,501	6,410	2,080	2,146	2,128	128	150	159	120	101	148
WARREN	108	123	122	35	38	57	1	2	2	0	1	3
WASHINGTON	83	90	85	20	26	30	1	0	0	0	0	0
WATAUGA	267	274	246	22	35	20	2	2	0	1	0	2
WAYNE	796	918	947	337	314	303	13	5	13	3	9	6
WILKES	175	184	187	48	52	41	1	2	0	1	0	0
WILSON	516	666	873	259	240	335	12	12	10	7	7	11
YADKIN	72	86	78	25	19	19	1	1	1	0	0	0
YANCEY	28	34	30	9	8	9	0	0	0	1	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	62,911	66,781	68,798	22,695	23,589	25,490	1,144	1,096	1,087	763	806	961

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2020).

Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2017-2019

COUNTY	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec
ALAMANCE	22	20	22
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	4	2	2
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	5	6	6
BERTIE	2	2	3
BLADEN	4	4	3
BRUNSWICK	9	7	5
BUNCOMBE	21	11	15
BURKE	5	4	4
CABARRUS	14	14	21
CALDWELL	6	4	6
CAMDEN	0	1	0
CARTERET	1	3	0
CASWELL	1	3	4
CATAWBA	7	16	13
CHATHAM	5	3	2
CHEROKEE	1	3	5
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	12	8	10
COLUMBUS	10	3	6
CRAVEN	4	10	7
CUMBERLAND	73	61	72
CURRITUCK	0	0	1
DARE	2	2	0
DAVIDSON	12	17	12
DAVIE	4	2	1
DUPLIN	6	5	4
DURHAM	65	61	69
EDGECOMBE	15	13	8
FORSYTH	68	63	82
FRANKLIN	6	4	2
GASTON	25	28	32
GATES	0	0	0
GRAHAM	0	0	0
GRANVILLE	7	9	8
GREENE	3	0	1
GUILFORD	130	110	124
HALIFAX	10	4	5
HARNETT	16	13	20
HAYWOOD	3	5	2
HENDERSON	7	8	5
HERTFORD	2	5	2
HOKE	4	8	5
HYDE	0	0	0
IREDELL	11	10	17
JACKSON	3	0	2
JOHNSTON	9	15	21
JONES	2	1	0
LEE	4	7	8
LENOIR	5	10	8
LINCOLN	3	7	2
MACON	1	0	2
MADISON	0	2	0
MARTIN	2	1	4
MCDOWELL	0	0	2
MECKLENBURG	271	248	269
MITCHELL	0	0	0
MONTGOMERY	3	0	2
MOORE	1	5	3
NASH	10	10	15
NEW HANOVER	33	24	29
NORTHAMPTON	3	0	4
ONSLOW	18	10	27
ORANGE	5	11	11
PAMLICO	1	0	1
PASQUOTANK	7	10	7
PENDER	3	4	2
PERQUIMANS	1	1	0
PERSON	4	5	1
PITT	38	34	47
POLK	0	0	0
RANDOLPH	7	4	14
RICHMOND	7	7	5
ROBESON	17	17	26
ROCKINGHAM	9	8	10
ROWAN	15	12	14
RUTHERFORD	5	1	0
SAMPSON	13	2	7
SCOTLAND	3	3	10
STANLY	0	2	2
STOKES	1	2	2
SURRY	0	2	7
SWAIN	0	0	0
TRANSYLVANIA	1	1	0
TYRRELL	0	0	0
UNION	15	18	15
VANCE	6	8	7
WAKE	127	113	134
WARREN	1	3	1
WASHINGTON	1	3	3
WATAUGA	2	1	3
WAYNE	15	13	16
WILKES	2	3	4
WILSON	14	14	15
YADKIN	3	2	1
YANCEY	0	0	0
UNASSIGNED*	16	13	21
TOTAL	1,309	1,209	1,390

* 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 3, 2020).

Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2017-2019

COUNTY	2017 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec
ALAMANCE	10	7	7
ALEXANDER	1	0	0
ALLEGHANY	0	0	0
ANSON	1	2	1
ASHE	0	0	0
AVERY	0	1	0
BEAUFORT	2	1	1
BERTIE	2	4	5
BLADEN	4	2	4
BRUNSWICK	4	2	2
BUNCOMBE	14	7	6
BURKE	1	1	3
CABARRUS	4	2	3
CALDWELL	1	2	3
CAMDEN	0	1	0
CARTERET	1	1	0
CASWELL	2	2	2
CATAWBA	2	6	5
CHATHAM	3	0	2
CHEROKEE	1	0	0
CHOWAN	0	0	0
CLAY	1	0	0
CLEVELAND	5	4	2
COLUMBUS	3	2	4
CRAVEN	2	4	3
CUMBERLAND	24	37	41
CURRITUCK	0	0	1
DARE	0	0	0
DAVIDSON	7	15	5
DAVIE	0	0	2
DUPLIN	5	3	2
DURHAM	33	30	24
EDGECOMBE	9	4	9
FORSYTH	44	46	38
FRANKLIN	2	3	2
GASTON	16	13	10
GATES	0	1	0
GRAHAM	0	0	0
GRANVILLE	5	7	2
GREENE	2	2	2
GUILFORD	30	24	28
HALIFAX	4	0	2
HARNETT	9	5	6
HAYWOOD	2	1	0
HENDERSON	5	3	3
HERTFORD	1	1	2
HOKE	3	2	6
HYDE	0	0	0
IREDELL	8	3	13
JACKSON	1	0	3
JOHNSTON	5	9	4
JONES	0	1	0
LEE	4	0	4
LENOIR	5	6	3
LINCOLN	1	2	3
MACON	0	0	2
MADISON	0	1	0
MARTIN	2	2	2
MCDOWELL	1	0	0
MECKLENBURG	95	55	76
MITCHELL	0	0	0
MONTGOMERY	1	0	1
MOORE	1	1	6
NASH	8	7	6
NEW HANOVER	8	5	5
NORTHAMPTON	3	2	1
ONSLOW	7	6	7
ORANGE	2	3	4
PAMLICO	0	0	0
PASQUOTANK	5	5	4
PENDER	0	0	0
PERQUIMANS	0	1	1
PERSON	1	3	0
PITT	21	22	18
POLK	0	1	0
RANDOLPH	3	5	4
RICHMOND	6	4	2
ROBESON	9	11	15
ROCKINGHAM	3	7	2
ROWAN	10	3	8
RUTHERFORD	3	4	0
SAMPSON	5	4	2
SCOTLAND	1	6	3
STANLY	0	3	0
STOKES	1	1	2
SURRY	0	2	2
SWAIN	0	0	0
TRANSYLVANIA	1	0	1
TYRRELL	0	0	0
UNION	9	2	4
VANCE	3	4	3
WAKE	64	59	44
WARREN	3	0	2
WASHINGTON	0	1	2
WATAUGA	1	0	1
WAYNE	8	10	4
WILKES	2	2	0
WILSON	6	4	12
YADKIN	1	0	1
YANCEY	0	0	0
UNASSIGNED*	7	3	10
TOTAL	590	518	525

* 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 3, 2020).