

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2019, No. 3

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 third quarter of 2019, 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. 2019, No. 3* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through September 30, 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/>).



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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>.

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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	0	0.0	0	0.0			0	0.0
	0-9	2	0.0	0	0.0	0	0.0			2	0.0
	10-14	7	0.0	16	0.1	13	0.1			36	0.1
	15-19	1,136	6.4	1,013	5.9	970	6.2			3,119	6.2
	20-24	2,265	12.7	2,065	12.1	1,846	11.7			6,176	12.2
	25-29	1,174	6.6	1,218	7.1	1,046	6.7			3,438	6.8
	30-34	517	2.9	624	3.7	552	3.5			1,693	3.3
	35-39	285	1.6	294	1.7	275	1.8			854	1.7
	40-44	159	0.9	146	0.9	173	1.1			478	0.9
	45-54	159	0.9	152	0.9	170	1.1			481	1.0
	55-64	46	0.3	64	0.4	61	0.4			171	0.3
	65+	9	0.1	11	0.1	13	0.1			33	0.1
	Total	5,715	32.3	4,749	31.9	3,185	33.2			16,481	32.6
Female	Unknown	0	0.0	0	0.0	0	0.0			0	0.0
	0-9	4	0.0	2	0.0	1	0.0			7	0.0
	10-14	99	0.6	102	0.6	104	0.7			305	0.6
	15-19	3,963	22.3	3,642	21.3	3,399	21.6			11,004	21.7
	20-24	4,452	25.0	4,356	25.5	3,952	25.2			12,760	25.2
	25-29	2,080	11.7	1,960	11.5	1,795	11.4			5,835	11.5
	30-34	812	4.6	785	4.6	711	4.5			2,308	4.6
	35-39	324	1.8	342	2.0	305	1.9			971	1.9
	40-44	165	0.9	169	1.0	168	1.1			502	1.0
	45-54	119	0.7	101	0.6	124	0.8			344	0.7
	55-64	25	0.1	29	0.2	31	0.2			85	0.2
	65+	5	0.0	3	0.0	3	0.0			11	0.0
	Total	12,048	67.7	11,491	67.2	10,593	67.4			34,132	67.4
Total	Unknown	0	0.0	0	0.0	0	0.0			0	0.0
	0-9	6	0.0	2	0.0	1	0.0			9	0.0
	10-14	106	0.6	118	0.7	117	0.7			341	0.7
	15-19	5,099	28.6	4,655	27.2	4,369	27.8			14,123	27.9
	20-24	6,717	37.7	6,421	37.6	5,798	36.9			18,936	37.4
	25-29	3,254	18.3	3,178	18.6	2,841	18.1			9,273	18.3
	30-34	1,329	7.5	1,409	8.2	1,263	8.0			4,001	7.9
	35-39	609	3.4	636	3.7	580	3.7			1,825	3.6
	40-44	324	1.8	315	1.8	341	2.2			980	1.9
	45-54	278	1.6	253	1.5	294	1.9			825	1.6
	55-64	71	0.4	93	0.5	92	0.6			256	0.5
	65+	14	0.1	14	0.1	16	0.1			44	0.1
Total	17,807	100.0	17,094	100.0	15,712	100.0			50,613	100.0	

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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	46	0.3	54	0.3	47	0.3			147	0.3
	Asian/Pacific Islander ^a	19	0.1	19	0.1	15	0.1			53	0.1
	Black/African American ^a	1,906	10.7	1,940	11.3	1,700	10.8			5,546	11.0
	Hispanic/Latino	329	1.8	310	1.8	276	1.8			915	1.8
	White/Caucasian ^a	740	4.2	754	4.4	673	4.3			2,167	4.3
	Multiple Race	11	0.1	10	0.1	9	0.1			30	0.1
	Unknown	2,708	15.2	2,516	14.7	2,399	15.3			7,623	15.1
	Total	5,759	32.3	5,603	32.8	5,119	32.6			16,481	32.6
Female	American Indian/Alaska Native ^a	155	0.9	158	0.9	140	0.9			453	0.9
	Asian/Pacific Islander ^a	46	0.3	62	0.4	44	0.3			152	0.3
	Black/African American ^a	3,890	21.8	3,789	22.2	3,252	20.7			10,931	21.6
	Hispanic/Latino	953	5.4	916	5.4	835	5.3			2,704	5.3
	White/Caucasian ^a	2,199	12.3	2,025	11.8	1,941	12.4			6,165	12.2
	Multiple Race	27	0.2	33	0.2	34	0.2			94	0.2
	Unknown	4,778	26.8	4,508	26.4	4,347	27.7			13,633	26.9
	Total	12,048	67.7	11,491	67.2	10,593	67.4			34,132	67.4
Total	American Indian/Alaska Native ^a	201	1.1	212	1.2	187	1.2			600	1.2
	Asian/Pacific Islander ^a	65	0.4	81	0.5	59	0.4			205	0.4
	Black/African American ^a	5,796	32.5	5,729	33.5	4,952	31.5			16,477	32.6
	Hispanic/Latino	1,282	7.2	1,226	7.2	1,111	7.1			3,619	7.2
	White/Caucasian ^a	2,939	16.5	2,779	16.3	2,614	16.6			8,332	16.5
	Multiple Race	38	0.2	43	0.3	43	0.3			124	0.2
	Unknown	7,486	42.0	7,024	41.1	6,746	42.9			21,256	42.0
	Total	17,807	100.0	17,094	100.0	15,712	100.0			50,613	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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			1	0.0
	0-9	0	0.0	0	0.0	0	0.0			0	0.0
	10-14	3	0.0	5	0.1	12	0.2			20	0.1
	15-19	412	6.5	358	5.7	390	6.1			1,160	6.1
	20-24	868	13.8	897	14.3	879	13.8			2,644	13.9
	25-29	783	12.4	812	12.9	736	11.5			2,331	12.3
	30-34	456	7.2	482	7.7	492	7.7			1,430	7.5
	35-39	265	4.2	290	4.6	316	5.0			871	4.6
	40-44	147	2.3	181	2.9	192	3.0			520	2.7
	45-54	225	3.6	193	3.1	212	3.3			630	3.3
	55-64	94	1.5	90	1.4	96	1.5			280	1.5
	65+	15	0.2	17	0.3	22	0.3			54	0.3
Total		3,268	51.9	3,325	52.9	3,347	52.4			9,940	52.4
Female	Unknown	0	0.0	0	0.0	0	0.0			0	0.0
	0-9	2	0.0	3	0.0	1	0.0			6	0.0
	10-14	22	0.3	32	0.5	23	0.4			77	0.4
	15-19	729	11.6	657	10.4	696	10.9			2,082	11.0
	20-24	982	15.6	967	15.4	982	15.4			2,931	15.4
	25-29	664	10.5	625	9.9	630	9.9			1,919	10.1
	30-34	300	4.8	337	5.4	350	5.5			987	5.2
	35-39	174	2.8	176	2.8	165	2.6			515	2.7
	40-44	83	1.3	83	1.3	93	1.5			259	1.4
	45-54	60	1.0	65	1.0	73	1.1			198	1.0
	55-64	13	0.2	14	0.2	18	0.3			45	0.2
	65+	3	0.0	5	0.1	4	0.1			12	0.1
Total		3,032	48.1	2,964	47.1	3,035	47.6			9,031	47.6
Total	Unknown	1	0.0	0	0.0	1	0.0			2	0.0
	0-9	2	0.0	3	0.1	1	0.0			6	0.0
	10-14	25	0.4	37	0.6	35	0.5			97	0.5
	15-19	1,141	18.1	1,015	16.1	1,086	17.0			3,242	17.1
	20-24	1,850	29.4	1,864	29.6	1,861	29.2			5,575	29.4
	25-29	1,447	23.0	1,437	22.8	1,366	21.4			4,250	22.4
	30-34	756	12.0	819	13.0	842	13.2			2,417	12.7
	35-39	439	7.0	466	7.4	481	7.5			1,386	7.3
	40-44	230	3.7	264	4.2	285	4.5			779	4.1
	45-54	285	4.5	258	4.1	285	4.5			828	4.4
	55-64	107	1.7	104	1.7	114	1.8			325	1.7
	65+	18	0.3	22	0.3	26	0.4			66	0.3
Total		6,300	100.0	6,289	100.0	6,382	100.0			18,971	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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	32	0.5	32	0.5			98	0.5
	Asian/Pacific Islander ^a	15	0.2	9	0.1	3	0.0			27	0.1
	Black/African American ^a	1,567	24.9	1,579	25.1	1,492	23.4			4,638	24.4
	Hispanic/Latino	122	1.9	129	2.1	108	1.7			359	1.9
	White/Caucasian ^a	404	6.4	379	6.0	450	7.1			1,233	6.5
	Multiple Race	5	0.1	10	0.2	15	0.2			30	0.2
	Unknown	1,121	17.8	1,187	18.9	1,247	19.5			3,555	18.7
	Total	3,268	51.9	3,325	52.9	3,347	52.4			9,940	52.4
Female	American Indian/Alaska Native ^a	58	0.9	54	0.9	43	0.7			155	0.8
	Asian/Pacific Islander ^a	8	0.1	6	0.1	2	0.0			16	0.1
	Black/African American ^a	1,254	19.9	1,231	19.6	1,223	19.2			3,708	19.5
	Hispanic/Latino	100	1.6	78	1.2	98	1.5			276	1.5
	White/Caucasian ^a	562	8.9	563	9.0	539	8.4			1,664	8.8
	Multiple Race	8	0.1	8	0.1	11	0.2			27	0.1
	Unknown	1,042	16.5	1,024	16.3	1,119	17.5			3,185	16.8
	Total	3,032	48.1	2,964	47.1	3,035	47.6			9,031	47.6
Total	American Indian/Alaska Native ^a	92	1.5	86	1.4	75	1.2			253	1.3
	Asian/Pacific Islander ^a	23	0.4	15	0.2	5	0.1			43	0.2
	Black/African American ^a	2,821	44.8	2,810	44.7	2,715	42.5			8,346	44.0
	Hispanic/Latino	222	3.5	207	3.3	206	3.2			635	3.3
	White/Caucasian ^a	966	15.3	942	15.0	989	15.5			2,897	15.3
	Multiple Race	13	0.2	18	0.3	26	0.4			57	0.3
	Unknown	2,163	34.3	2,211	35.2	2,366	37.1			6,740	35.5
	Total	6,300	100.0	6,289	100.0	6,382	100.0			18,971	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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
	0-9	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
	15-19	13	2.9	18	3.5	17	3.3			48	3.2
	20-24	58	12.7	72	14.2	77	14.8			207	13.9
	25-29	102	22.4	96	18.9	105	20.1			303	20.4
	30-34	66	14.5	76	15.0	60	11.5			202	13.6
	35-39	39	8.6	39	7.7	54	10.3			132	8.9
	40-44	24	5.3	27	5.3	34	6.5			85	5.7
	45-54	68	14.9	54	10.6	52	10.0			174	11.7
	55-64	22	4.8	22	4.3	16	3.1			60	4.0
	65+	2	0.4	3	0.6	10	1.9			15	1.0
Total		394	86.4	407	80.1	425	81.4			1,226	82.5
Female	Unknown	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
	10-14	0	0.0	0	0.0	0	0.0			0	0.0
	15-19	2	0.4	7	1.4	5	1.0			14	0.9
	20-24	11	2.4	21	4.1	20	3.8			52	3.5
	25-29	10	2.2	19	3.7	21	4.0			50	3.4
	30-34	14	3.1	21	4.1	19	3.6			54	3.6
	35-39	9	2.0	4	0.8	9	1.7			22	1.5
	40-44	5	1.1	13	2.6	7	1.3			25	1.7
	45-54	9	2.0	11	2.2	11	2.1			31	2.1
	55-64	2	0.4	4	0.8	4	0.8			10	0.7
	65+	0	0.0	1	0.2	1	0.2			2	0.1
Total		62	13.6	101	19.9	97	18.6			260	17.5
Total	Unknown	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
	10-14	0	0.0	0	0.0	0	0.0			0	0.0
	15-19	15	3.3	25	4.9	22	4.2			62	4.2
	20-24	69	15.1	93	18.3	97	18.6			259	17.4
	25-29	112	24.6	115	22.6	126	24.1			353	23.8
	30-34	80	17.5	97	19.1	79	15.1			256	17.2
	35-39	48	10.5	43	8.5	63	12.1			154	10.4
	40-44	29	6.4	40	7.9	41	7.9			110	7.4
	45-54	77	16.9	65	12.8	63	12.1			205	13.8
	55-64	24	5.3	26	5.1	20	3.8			70	4.7
	65+	2	0.4	4	0.8	11	2.1			17	1.1
Total		456	100.0	508	100.0	522	100.0			1,486	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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	2	0.4	5	1.0	3	0.6			10	0.7
	Asian/Pacific Islander ^a	3	0.7	2	0.4	4	0.8			9	0.6
	Black/African American ^a	253	55.5	238	46.9	256	49.0			747	50.3
	Hispanic/Latino	44	9.6	32	6.3	39	7.5			115	7.7
	White/Caucasian ^a	80	17.5	109	21.5	106	20.3			295	19.9
	Multiple Race	7	1.5	11	2.2	2	0.4			20	1.3
	Unknown	5	1.1	10	2.0	15	2.9			30	2.0
	Total	394	86.4	407	80.1	425	81.4			1,226	82.5
Female	American Indian/Alaska Native ^a	0	0.0	1	0.2	0	0.0			1	0.1
	Asian/Pacific Islander ^a	1	0.2	0	0.0	1	0.2			2	0.1
	Black/African American ^a	47	10.3	62	12.2	67	12.8			176	11.8
	Hispanic/Latino	3	0.7	10	2.0	5	1.0			18	1.2
	White/Caucasian ^a	8	1.8	24	4.7	22	4.2			54	3.6
	Multiple Race	3	0.7	2	0.4	0	0.0			5	0.3
	Unknown	0	0.0	2	0.4	2	0.4			4	0.3
	Total	62	13.6	101	19.9	97	18.6			260	17.5
Total ^c	American Indian/Alaska Native ^a	2	0.4	6	1.2	3	0.6			11	0.7
	Asian/Pacific Islander ^a	4	0.9	2	0.4	5	1.0			11	0.7
	Black/African American ^a	300	65.8	300	59.1	323	61.9			923	62.1
	Hispanic/Latino	47	10.3	42	8.3	44	8.4			133	9.0
	White/Caucasian ^a	88	19.3	133	26.2	128	24.5			349	23.5
	Multiple Race	10	2.2	13	2.6	2	0.4			25	1.7
	Unknown	5	1.1	12	2.4	17	3.3			34	2.3
	Total	456	100.0	508	100.0	522	100.0			1,486	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep
ALAMANCE	685	718	801	201	199	191	13	11	9	8	9	17
ALEXANDER	58	61	59	21	16	37	0	0	0	0	0	0
ALLEGHANY	15	28	17	2	4	1	0	0	0	0	0	0
ANSON	132	139	180	52	56	55	2	2	0	1	0	1
ASHE	33	32	19	3	4	4	0	0	0	0	0	0
AVERY	27	19	31	5	7	4	0	1	0	0	0	0
BEAUFORT	202	208	208	46	53	94	1	0	2	0	2	2
BERTIE	121	129	81	36	40	32	2	0	0	1	1	2
BLADEN	141	111	121	77	61	85	1	2	2	3	1	0
BRUNSWICK	299	328	336	83	123	126	7	2	5	4	3	6
BUNCOMBE	866	872	888	342	327	322	29	12	21	8	9	10
BURKE	251	258	267	120	128	129	3	1	1	5	1	0
CABARRUS	731	856	913	177	236	234	7	9	9	6	6	13
CALDWELL	175	221	239	83	99	156	2	1	2	3	4	0
CAMDEN	16	27	17	2	5	6	0	0	0	0	0	0
CARTERET	158	188	171	29	27	31	0	2	2	1	0	2
CASWELL	95	74	65	29	15	12	1	1	3	0	0	0
CATAWBA	469	476	498	219	195	233	8	16	9	6	5	1
CHATHAM	141	141	171	43	31	29	2	2	1	0	0	0
CHEROKEE	28	42	32	7	15	16	0	0	1	0	0	0
CHOWAN	76	69	54	29	33	47	1	0	3	0	0	2
CLAY	15	14	17	1	2	3	0	0	0	0	0	0
CLEVELAND	390	508	463	251	309	250	4	2	5	2	4	2
COLUMBUS	248	214	234	159	96	106	6	1	4	1	0	4
CRAVEN	598	626	571	129	162	131	3	4	7	3	7	6
CUMBERLAND	2,786	3,023	3,102	1,141	1,062	1,249	35	40	36	27	41	43
CURRITUCK	50	52	39	9	15	9	1	0	0	1	1	0
DARE	73	84	60	13	18	10	0	0	1	1	0	0
DAVIDSON	517	502	469	215	210	318	6	3	7	6	5	8
DAVIE	92	93	91	36	32	28	0	2	0	0	1	2
DUPLIN	218	242	247	68	71	81	3	2	1	1	3	0
DURHAM	2,047	2,114	2,126	790	813	794	50	77	70	37	41	59
EDGECOMBE	386	393	439	189	195	202	7	2	3	9	1	2
FORSYTH	1,859	2,148	2,163	681	848	1,044	40	43	39	18	38	30
FRANKLIN	245	254	182	79	107	102	0	2	2	1	1	2
GASTON	1,043	1,200	1,185	385	490	448	14	15	15	11	12	9
GATES	36	29	21	9	7	4	0	0	2	0	0	0
GRAHAM	15	12	15	3	5	2	0	0	0	0	0	0
GRANVILLE	363	342	315	100	109	126	2	8	8	2	2	5
GREENE	124	116	126	35	43	41	2	0	0	0	0	3
GUILFORD	3,627	3,870	3,678	1,412	1,465	1,578	94	66	53	52	44	68
HALIFAX	325	362	320	94	132	143	5	2	1	2	4	1
HARNETT	509	575	596	143	189	208	4	3	5	1	7	6
HAYWOOD	93	116	118	31	36	52	7	0	2	1	0	1
HENDERSON	242	248	246	74	80	108	9	2	1	3	3	0
HERTFORD	117	148	103	36	56	43	0	1	1	2	1	2
HOKE	295	308	264	126	116	112	4	2	3	4	5	6
HYDE	19	17	5	4	3	2	0	0	0	1	0	0
IREDELL	597	548	553	278	169	174	8	7	8	2	6	9
JACKSON	152	142	177	61	52	39	2	0	2	0	1	0
JOHNSTON	632	666	696	206	187	240	6	11	9	8	3	9
JONES	47	36	36	17	13	16	1	0	0	0	1	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of November 1, 2019).

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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-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep
LEE	253	207	253	83	54	62	3	1	2	1	1	1
LENOIR	356	400	416	150	180	158	3	2	3	1	4	2
LINCOLN	199	252	214	49	75	70	3	4	2	0	3	2
MACON	71	83	57	10	27	18	2	2	0	0	1	2
MADISON	46	55	49	12	14	9	0	1	1	0	1	0
MARTIN	102	124	144	20	50	45	2	1	3	1	0	4
MCDOWELL	144	98	123	74	54	68	0	2	0	0	2	1
MECKLENBURG	6,767	6,869	7,354	2,432	2,361	2,477	224	189	161	148	135	152
MITCHELL	29	23	30	6	2	4	0	0	0	0	0	0
MONTGOMERY	120	114	91	26	22	27	1	0	0	3	1	0
MOORE	257	297	311	73	61	95	1	2	0	3	0	2
NASH	467	530	558	216	207	277	10	6	7	7	6	8
NEW HANOVER	973	878	962	295	287	338	22	19	15	9	20	18
NORTHAMPTON	91	126	128	47	47	51	2	1	2	0	0	0
ONSLOW	1,463	1,607	1,651	279	374	353	12	15	9	7	8	9
ORANGE	597	520	534	183	144	139	7	9	5	3	4	9
PAMLICO	26	26	24	7	3	4	0	0	0	0	0	0
PASQUOTANK	247	216	203	64	94	115	2	2	0	0	0	2
PENDER	158	150	146	35	42	35	3	1	1	1	2	0
PERQUIMANS	62	43	43	10	20	31	0	0	0	0	0	0
PERSON	194	129	158	61	39	33	3	2	6	0	0	1
PITT	1,590	1,421	1,593	503	449	585	14	14	11	9	17	16
POLK	38	30	25	8	7	18	1	2	1	0	0	1
RANDOLPH	341	364	426	119	144	114	5	3	2	1	3	0
RICHMOND	331	308	333	82	122	186	2	1	4	1	1	0
ROBESON	990	851	937	436	363	532	7	12	10	7	13	11
ROCKINGHAM	263	311	314	133	101	133	4	2	1	8	1	2
ROWAN	694	713	676	199	235	287	11	6	8	4	7	11
RUTHERFORD	183	199	217	112	142	139	0	0	4	3	0	0
SAMPSON	214	245	306	75	85	92	2	2	2	1	1	1
SCOTLAND	240	244	256	123	109	135	1	3	3	0	3	2
STANLY	176	204	210	39	49	61	6	0	2	2	0	0
STOKES	81	88	82	16	32	31	0	0	2	1	0	0
SURRY	155	157	143	32	34	49	3	0	0	1	4	0
SWAIN	67	96	84	27	42	30	0	0	0	0	0	0
TRANSYLVANIA	50	63	64	9	16	35	0	0	1	2	0	1
TYRRELL	11	12	12	1	1	3	0	0	0	0	0	0
UNION	629	735	764	155	227	205	13	11	9	9	2	9
VANCE	356	397	341	193	206	225	2	7	6	3	1	3
WAKE	4,545	4,782	4,654	1,550	1,622	1,574	94	116	109	88	70	105
WARREN	82	93	90	24	27	47	1	2	1	0	1	3
WASHINGTON	66	67	64	17	20	21	1	0	0	0	0	0
WATAUGA	193	195	184	18	27	14	2	2	0	1	0	2
WAYNE	614	667	736	273	228	250	9	4	10	1	4	4
WILKES	138	130	138	40	44	36	1	2	0	1	0	0
WILSON	358	477	657	181	164	244	8	7	8	4	4	6
YADKIN	50	63	65	19	14	16	0	1	1	0	0	0
YANCEY	23	27	16	6	6	7	0	0	0	1	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	47,579	49,685	50,661	16,903	17,439	18,985	879	813	767	574	593	723

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

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

COUNTY	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep
ALAMANCE	13	11	8
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	2	2	1
ASHE	0	0	0
AVERY	0	1	0
BEAUFORT	1	0	2
BERTIE	2	0	0
BLADEN	1	2	2
BRUNSWICK	7	2	5
BUNCOMBE	29	12	24
BURKE	3	1	1
CABARRUS	7	9	9
CALDWELL	2	1	1
CAMDEN	0	0	0
CARTERET	0	2	2
CASWELL	1	1	2
CATAWBA	8	16	10
CHATHAM	2	2	1
CHEROKEE	0	0	0
CHOWAN	1	0	3
CLAY	0	0	0
CLEVELAND	4	2	4
COLUMBUS	6	1	3
Craven	3	4	6
CUMBERLAND	35	40	35
CURRITUCK	1	0	0
DARE	0	0	1
DAVIDSON	6	3	7
DAVIE	0	2	0
DUPLIN	3	2	0
DURHAM	50	77	65
EDGECOMBE	7	2	3
FORSYTH	40	43	35
FRANKLIN	0	2	2
GASTON	14	15	14
GATES	0	0	2
GRAHAM	0	0	0
GRANVILLE	2	8	7
GREENE	2	0	0
GUILFORD	94	66	48
HALIFAX	5	2	2
HARNETT	4	3	5
HAYWOOD	7	0	2
HENDERSON	9	2	1
HERTFORD	0	1	1
HOKE	4	2	2
HYDE	0	0	0
IREDELL	8	7	7
JACKSON	2	0	2
JOHNSTON	6	11	8

COUNTY	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep
JONES	1	1	0
LEE	3	6	6
LENOIR	3	7	4
LINCOLN	3	4	1
MACON	1	0	2
MADISON	0	2	0
MARTIN	1	0	4
MCDOWELL	0	0	1
MECKLENBURG	195	176	200
MITCHELL	0	0	0
MONTGOMERY	2	0	1
MOORE	1	4	0
NASH	7	7	13
NEW HANOVER	26	16	24
NORTHAMPTON	1	0	3
ONSLow	16	9	20
ORANGE	5	8	9
PAMLICO	1	0	1
PASQUOTANK	7	7	5
PENDER	3	2	0
PERQUIMANS	1	0	0
PERSON	3	4	1
PITT	26	28	32
POLK	0	0	0
RANDOLPH	3	2	12
RICHMOND	6	6	4
ROBESON	15	13	22
ROCKINGHAM	7	7	7
ROWAN	12	11	13
RUTHERFORD	5	1	0
SAMPSON	11	2	7
SCOTLAND	3	3	8
STANLY	0	2	2
STOKES	1	1	2
SURRY	0	1	6
SWAIN	0	0	0
TRANSYLVANIA	1	1	0
TYRRELL	0	0	0
UNION	13	11	9
VANCE	5	4	5
WAKE	103	81	95
WARREN	0	2	0
WASHINGTON	0	2	1
WATAUGA	2	1	2
WAYNE	12	7	14
WILKES	2	3	1
WILSON	11	11	12
YADKIN	1	1	1
YANCEY	0	0	0
UNASSIGNED*	12	8	16
TOTAL	1,005	890	1,056

* 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 November 4, 2019).

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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-Sep	2018 Jan-Sep	2019 Jan-Sep
ALAMANCE	8	6	6
ALEXANDER	1	0	0
ALLEGHANY	0	0	0
ANSON	1	2	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	2	0	1
BERTIE	2	3	4
BLADEN	3	2	3
BRUNSWICK	4	2	1
BUNCOMBE	10	5	5
BURKE	1	1	2
CABARRUS	4	1	2
CALDWELL	0	1	3
CAMDEN	0	1	0
CARTERET	1	1	0
CASWELL	2	1	2
CATAWBA	0	3	4
CHATHAM	3	0	1
CHEROKEE	0	0	0
CHOWAN	0	0	0
CLAY	1	0	0
CLEVELAND	5	3	2
COLUMBUS	1	2	2
Craven	0	1	2
CUMBERLAND	15	30	31
CURRITUCK	0	0	1
DARE	0	0	0
DAVIDSON	6	13	3
DAVIE	0	0	2
DUPLIN	5	3	1
DURHAM	28	24	15
EDGECOMBE	8	4	8
FORSYTH	34	36	30
FRANKLIN	1	2	2
GASTON	15	8	5
GATES	0	1	0
GRAHAM	0	0	0
GRANVILLE	4	4	2
GREENE	1	1	2
GUILFORD	24	16	24
HALIFAX	3	0	2
HARNETT	7	4	4
HAYWOOD	2	0	0
HENDERSON	5	0	2
HERTFORD	1	1	1
HOKE	2	2	3
HYDE	0	0	0
IREDELL	7	1	12
JACKSON	1	0	2
JOHNSTON	3	9	3
JONES	0	1	0
LEE	3	0	3

COUNTY	2017 Jan-Sep	2018 Jan-Sep	2019 Jan-Sep
LENOIR	2	5	3
LINCOLN	1	1	2
MACON	0	0	0
MADISON	0	1	0
MARTIN	1	2	2
MCDOWELL	1	0	0
MECKLENBURG	80	37	49
MITCHELL	0	0	0
MONTGOMERY	1	0	0
MOORE	0	1	5
NASH	7	6	5
NEW HANOVER	7	2	4
NORTHAMPTON	2	1	1
ONSLow	5	4	6
ORANGE	2	3	3
PAMLICO	0	0	0
PASQUOTANK	4	3	3
PENDER	0	0	0
PERQUIMANS	0	1	0
PERSON	1	3	0
PITT	18	16	17
POLK	0	1	0
RANDOLPH	2	4	3
RICHMOND	4	3	2
ROBESON	6	10	11
ROCKINGHAM	2	5	2
ROWAN	8	2	6
RUTHERFORD	3	3	0
SAMPSON	3	3	1
SCOTLAND	1	6	3
STANLY	0	3	0
STOKES	1	1	1
SURRY	0	1	2
SWAIN	0	0	0
TRANSYLVANIA	1	0	1
TYRRELL	0	0	0
UNION	6	2	2
VANCE	3	3	2
WAKE	49	45	34
WARREN	2	0	1
WASHINGTON	0	1	1
WATAUGA	1	0	1
WAYNE	3	10	4
WILKES	1	1	0
WILSON	6	4	8
YADKIN	0	0	0
YANCEY	0	0	0
UNASSIGNED*	6	3	8
TOTAL	464	392	392

* 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 November 4, 2019).