

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2017, 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 2017, chlamydia cases are approximately 10% underestimated; gonorrhea cases are approximately 15% 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. 2017, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2017. 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/>).



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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 2017. 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>.

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Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2017

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	2	0.0	1	0.0	4	0.0	0	0.0	7	0.0
	0-9	1	0.0	2	0.0	2	0.0	1	0.0	6	0.0
	10-14	6	0.0	7	0.0	9	0.1	6	0.0	28	0.0
	15-19	945	5.9	916	5.9	944	6.0	898	6.5	3,703	6.1
	20-24	1,913	12.0	1,872	12.1	1,792	11.3	1,525	11.1	7,102	11.6
	25-29	1,041	6.5	988	6.4	994	6.3	820	6.0	3,843	6.3
	30-34	439	2.7	423	2.7	468	3.0	355	2.6	1,685	2.8
	35-39	221	1.4	206	1.3	245	1.5	209	1.5	881	1.4
	40-44	105	0.7	112	0.7	156	1.0	143	1.0	516	0.8
	45-54	129	0.8	115	0.7	165	1.0	126	0.9	535	0.9
	55-64	36	0.2	37	0.2	62	0.4	42	0.3	177	0.3
	65+	12	0.1	7	0.0	9	0.1	6	0.0	34	0.1
Total		4,850	30.4	4,686	30.4	4,850	30.7	4,131	30.0	18,517	30.4
Female	Unknown	1	0.0	2	0.0	2	0.0	6	0.0	11	0.0
	0-9	3	0.0	3	0.0	4	0.0	1	0.0	11	0.0
	10-14	81	0.5	83	0.5	104	0.7	81	0.6	349	0.6
	15-19	3,587	22.5	3,448	22.3	3,688	23.3	3,250	23.6	13,973	22.9
	20-24	4,390	27.5	4,259	27.6	4,123	26.1	3,636	26.4	16,408	26.9
	25-29	1,785	11.2	1,762	11.4	1,730	10.9	1,554	11.3	6,831	11.2
	30-34	695	4.4	646	4.2	719	4.5	592	4.3	2,652	4.3
	35-39	302	1.9	287	1.9	310	2.0	274	2.0	1,173	1.9
	40-44	147	0.9	128	0.8	144	0.9	122	0.9	541	0.9
	45-54	103	0.6	98	0.6	111	0.7	100	0.7	412	0.7
	55-64	24	0.2	27	0.2	22	0.1	19	0.1	92	0.2
	65+	6	0.0	3	0.0	5	0.0	4	0.0	18	0.0
Total		11,124	69.6	10,746	69.6	10,962	69.3	9,639	70.0	42,471	69.6
Total	Unknown	3	0.0	3	0.0	6	0.0	6	0.0	18	0.0
	0-9	4	0.0	5	0.0	6	0.0	2	0.0	17	0.0
	10-14	87	0.5	90	0.6	113	0.7	87	0.6	377	0.6
	15-19	4,532	28.4	4,364	28.3	4,632	29.3	4,148	30.1	17,676	29.0
	20-24	6,303	39.5	6,131	39.7	5,915	37.4	5,161	37.5	23,510	38.5
	25-29	2,826	17.7	2,750	17.8	2,724	17.2	2,374	17.2	10,674	17.5
	30-34	1,134	7.1	1,069	6.9	1,187	7.5	947	6.9	4,337	7.1
	35-39	523	3.3	493	3.2	555	3.5	483	3.5	2,054	3.4
	40-44	252	1.6	240	1.6	300	1.9	265	1.9	1,057	1.7
	45-54	232	1.5	213	1.4	276	1.7	226	1.6	947	1.6
	55-64	60	0.4	64	0.4	84	0.5	61	0.4	269	0.4
	65+	18	0.1	10	0.1	14	0.1	10	0.1	52	0.1
Total		15,974	100.0	15,432	100.0	15,812	100.0	13,770	100.0	60,988	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2017

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	44	0.3	41	0.3	55	0.3	46	0.3	186	0.3
	Asian/Pacific Islander ^a	27	0.2	23	0.1	24	0.2	17	0.1	91	0.1
	Black/African American ^a	1,672	10.5	1,771	11.5	1,796	11.4	1,557	11.3	6,796	11.1
	Hispanic/Latino	271	1.7	228	1.5	284	1.8	222	1.6	1,005	1.6
	White/Caucasian ^a	741	4.6	659	4.3	690	4.4	594	4.3	2,684	4.4
	Multiple Race	6	0.0	9	0.1	8	0.1	6	0.0	29	0.0
	Unknown	2,089	13.1	1,955	12.7	1,993	12.6	1,689	12.3	7,726	12.7
	Total	4,850	30.4	4,686	30.4	4,850	30.7	4,131	30.0	18,517	30.4
Female	American Indian/Alaska Native ^a	197	1.2	169	1.1	148	0.9	118	0.9	632	1.0
	Asian/Pacific Islander ^a	70	0.4	68	0.4	71	0.4	61	0.4	270	0.4
	Black/African American ^a	3,786	23.7	3,734	24.2	3,813	24.1	3,300	24.0	14,633	24.0
	Hispanic/Latino	826	5.2	749	4.9	787	5.0	707	5.1	3,069	5.0
	White/Caucasian ^a	2,118	13.3	2,060	13.3	2,192	13.9	1,917	13.9	8,287	13.6
	Multiple Race	26	0.2	31	0.2	36	0.2	21	0.2	114	0.2
	Unknown	4,101	25.7	3,935	25.5	3,915	24.8	3,515	25.5	15,466	25.4
	Total	11,124	69.6	10,746	69.6	10,962	69.3	9,639	70.0	42,471	69.6
Total	American Indian/Alaska Native ^a	241	1.5	210	1.4	203	1.3	164	1.2	818	1.3
	Asian/Pacific Islander ^a	97	0.6	91	0.6	95	0.6	78	0.6	361	0.6
	Black/African American ^a	5,458	34.2	5,505	35.7	5,609	35.5	4,857	35.3	21,429	35.1
	Hispanic/Latino	1,097	6.9	977	6.3	1,071	6.8	929	6.7	4,074	6.7
	White/Caucasian ^a	2,859	17.9	2,719	17.6	2,882	18.2	2,511	18.2	10,971	18.0
	Multiple Race	32	0.2	40	0.3	44	0.3	27	0.2	143	0.2
	Unknown	6,190	38.8	5,890	38.2	5,908	37.4	5,204	37.8	23,192	38.0
	Total	15,974	100.0	15,432	100.0	15,812	100.0	13,770	100.0	60,988	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2017

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Case	%	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	6	0.1	2	0.0	5	0.1	2	0.0	15	0.1
	15-19	331	6.3	343	6.3	393	6.4	362	6.7	1,429	6.4
	20-24	806	15.5	802	14.7	893	14.5	778	14.4	3,279	14.7
	25-29	628	12.0	663	12.1	701	11.4	619	11.5	2,611	11.7
	30-34	310	5.9	339	6.2	402	6.5	337	6.3	1,388	6.2
	35-39	205	3.9	190	3.5	236	3.8	226	4.2	857	3.9
	40-44	132	2.5	132	2.4	171	2.8	134	2.5	569	2.6
	45-54	169	3.2	195	3.6	260	4.2	205	3.8	829	3.7
	55-64	70	1.3	80	1.5	114	1.9	80	1.5	344	1.5
	65+	13	0.2	21	0.4	18	0.3	18	0.3	70	0.3
Total		2,670	51.2	2,767	50.6	3,193	51.9	2,761	51.3	11,391	51.2
Female	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	2	0.0	3	0.0
	10-14	17	0.3	12	0.2	21	0.3	22	0.4	72	0.3
	15-19	635	12.2	670	12.2	719	11.7	664	12.3	2,688	12.1
	20-24	928	17.8	944	17.3	977	15.9	867	16.1	3,716	16.7
	25-29	547	10.5	530	9.7	597	9.7	552	10.2	2,226	10.0
	30-34	204	3.9	274	5.0	315	5.1	258	4.8	1,051	4.7
	35-39	107	2.1	144	2.6	158	2.6	137	2.5	546	2.5
	40-44	47	0.9	64	1.2	87	1.4	60	1.1	258	1.2
	45-54	54	1.0	54	1.0	70	1.1	50	0.9	228	1.0
	55-64	7	0.1	12	0.2	17	0.3	11	0.2	47	0.2
	65+	0	0.0	1	0.0	1	0.0	2	0.0	4	0.0
Total		2,546	48.8	2,705	49.4	2,964	48.1	2,625	48.7	10,840	48.8
Total^a	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	2	0.0	3	0.0
	10-14	23	0.4	14	0.3	26	0.4	24	0.4	87	0.4
	15-19	966	18.5	1,013	18.5	1,112	18.1	1,026	19.0	4,117	18.5
	20-24	1,734	33.2	1,746	31.9	1,870	30.4	1,645	30.5	6,995	31.5
	25-29	1,175	22.5	1,193	21.8	1,298	21.1	1,171	21.7	4,837	21.8
	30-34	514	9.9	613	11.2	717	11.6	595	11.0	2,439	11.0
	35-39	312	6.0	334	6.1	394	6.4	363	6.7	1,403	6.3
	40-44	179	3.4	196	3.6	258	4.2	194	3.6	827	3.7
	45-54	223	4.3	249	4.6	331	5.4	255	4.7	1,058	4.8
	55-64	77	1.5	92	1.7	131	2.1	91	1.7	391	1.8
	65+	13	0.2	22	0.4	19	0.3	20	0.4	74	0.3
Total		5,216	100.0	5,472	100.0	6,158	100.0	5,386	100.0	22,232	100.0

^a Total includes 1 case with unreported gender (1 case in Quarter 3).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2017

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	32	0.6	30	0.5	34	0.6	28	0.5	124	0.6
	Asian/Pacific Islander ^a	9	0.2	10	0.2	13	0.2	5	0.1	37	0.2
	Black/African American ^a	1,339	25.7	1,437	26.3	1,602	26.0	1,388	25.8	5,766	25.9
	Hispanic/Latino	96	1.8	79	1.4	114	1.9	94	1.7	383	1.7
	White/Caucasian ^a	325	6.2	315	5.8	426	6.9	349	6.5	1,415	6.4
	Multiple Race	5	0.1	4	0.1	6	0.1	10	0.2	25	0.1
	Unknown	864	16.6	892	16.3	998	16.2	887	16.5	3,641	16.4
	Total	2,670	51.2	2,767	50.6	3,193	51.9	2,761	51.3	11,391	51.2
Female	American Indian/Alaska Native ^a	39	0.7	66	1.2	59	1.0	58	1.1	222	1.0
	Asian/Pacific Islander ^a	6	0.1	8	0.1	11	0.2	9	0.2	34	0.2
	Black/African American ^a	1,203	23.1	1,269	23.2	1,323	21.5	1,196	22.2	4,991	22.4
	Hispanic/Latino	61	1.2	60	1.1	75	1.2	57	1.1	253	1.1
	White/Caucasian ^a	420	8.1	477	8.7	549	8.9	503	9.3	1,949	8.8
	Multiple Race	11	0.2	6	0.1	8	0.1	5	0.1	30	0.1
	Unknown	806	15.5	819	15.0	939	15.2	797	14.8	3,361	15.1
	Total	2,546	48.8	2,705	49.4	2,964	48.1	2,625	48.7	10,840	48.8
Total ^b	American Indian/Alaska Native ^a	71	1.4	96	1.8	93	1.5	86	1.6	346	1.6
	Asian/Pacific Islander ^a	15	0.3	18	0.3	24	0.4	14	0.3	71	0.3
	Black/African American ^a	2,542	48.7	2,706	49.5	2,926	47.5	2,584	48.0	10,758	48.4
	Hispanic/Latino	157	3.0	139	2.5	189	3.1	151	2.8	636	2.9
	White/Caucasian ^a	745	14.3	792	14.5	975	15.8	852	15.8	3,364	15.1
	Multiple Race	16	0.3	10	0.2	14	0.2	15	0.3	55	0.2
	Unknown	1,670	32.0	1,711	31.3	1,937	31.5	1,684	31.3	7,002	31.5
	Total	5,216	100.0	5,472	100.0	6,158	100.0	5,386	100.0	22,232	100.0

^aNon-Hispanic/Latino.

^bTotal includes 1 case with unreported gender (1 case in Quarter 3).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2017

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Case	%	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	17	3.8	20	4.2	24	5.1	16	4.0	77	4.3
	20-24	96	21.3	79	16.6	83	17.6	57	14.3	315	17.5
	25-29	100	22.2	91	19.2	91	19.3	78	19.5	360	20.1
	30-34	44	9.8	74	15.6	55	11.7	46	11.5	219	12.2
	35-39	46	10.2	45	9.5	36	7.6	37	9.3	164	9.1
	40-44	28	6.2	29	6.1	37	7.9	30	7.5	124	6.9
	45-54	41	9.1	49	10.3	53	11.3	49	12.3	192	10.7
	55-64	24	5.3	27	5.7	24	5.1	21	5.3	96	5.3
	65+	4	0.9	5	1.1	2	0.4	4	1.0	15	0.8
Total		400	88.9	419	88.2	405	86.0	338	84.7	1,562	87.0
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	1	0.3	1	0.1
	15-19	5	1.1	10	2.1	8	1.7	7	1.8	30	1.7
	20-24	15	3.3	16	3.4	13	2.8	12	3.0	56	3.1
	25-29	11	2.4	10	2.1	13	2.8	14	3.5	48	2.7
	30-34	6	1.3	6	1.3	13	2.8	6	1.5	31	1.7
	35-39	2	0.4	1	0.2	8	1.7	7	1.8	18	1.0
	40-44	3	0.7	5	1.1	5	1.1	6	1.5	19	1.1
	45-54	7	1.6	5	1.1	4	0.8	4	1.0	20	1.1
	55-64	1	0.2	2	0.4	0	0.0	2	0.5	5	0.3
	65+	0	0.0	1	0.2	2	0.4	2	0.5	5	0.3
Total		50	11.1	56	11.8	66	14.0	61	15.3	233	13.0
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	1	0.3	1	0.1
	15-19	22	4.9	30	6.3	32	6.8	23	5.8	107	6.0
	20-24	111	24.7	95	20.0	96	20.4	69	17.3	371	20.7
	25-29	111	24.7	101	21.3	104	22.1	92	23.1	408	22.7
	30-34	50	11.1	80	16.8	68	14.4	52	13.0	250	13.9
	35-39	48	10.7	46	9.7	44	9.3	44	11.0	182	10.1
	40-44	31	6.9	34	7.2	42	8.9	36	9.0	143	8.0
	45-54	48	10.7	54	11.4	57	12.1	53	13.3	212	11.8
	55-64	25	5.6	29	6.1	24	5.1	23	5.8	101	5.6
	65+	4	0.9	6	1.3	4	0.8	6	1.5	20	1.1
Total		450	100.0	475	100.0	471	100.0	399	100.0	1,795	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2017

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2017 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	2	0.4	3	0.6	2	0.4	0	0.0	7	0.4
	Asian/Pacific Islander ^a	2	0.4	5	1.1	4	0.8	5	1.3	16	0.9
	Black/African American ^a	244	54.2	247	52.0	226	48.0	193	48.4	910	50.7
	Hispanic/Latino	31	6.9	32	6.7	35	7.4	28	7.0	126	7.0
	White/Caucasian ^a	108	24.0	116	24.4	121	25.7	103	25.8	448	25.0
	Multiple Race	10	2.2	5	1.1	8	1.7	4	1.0	27	1.5
	Unknown	3	0.7	11	2.3	9	1.9	5	1.3	28	1.6
	Total	400	88.9	419	88.2	405	86.0	338	84.7	1,562	87.0
Female	American Indian/Alaska Native ^a	1	0.2	1	0.2	0	0.0	0	0.0	2	0.1
	Asian/Pacific Islander ^a	0	0.0	1	0.2	1	0.2	1	0.3	3	0.2
	Black/African American ^a	33	7.3	37	7.8	40	8.5	38	9.5	148	8.2
	Hispanic/Latino	2	0.4	2	0.4	5	1.1	4	1.0	13	0.7
	White/Caucasian ^a	12	2.7	10	2.1	16	3.4	17	4.3	55	3.1
	Multiple Race	2	0.4	3	0.6	3	0.6	1	0.3	9	0.5
	Unknown	0	0.0	2	0.4	1	0.2	0	0.0	3	0.2
	Total	50	11.1	56	11.8	66	14.0	61	15.3	233	13.0
Total ^c	American Indian/Alaska Native ^a	3	0.7	4	0.8	2	0.4	0	0.0	9	0.5
	Asian/Pacific Islander ^a	2	0.4	6	1.3	5	1.1	6	1.5	19	1.1
	Black/African American ^a	277	61.6	284	59.8	266	56.5	231	57.9	1,058	58.9
	Hispanic/Latino	33	7.3	34	7.2	40	8.5	32	8.0	139	7.7
	White/Caucasian ^a	120	26.7	126	26.5	137	29.1	120	30.1	503	28.0
	Multiple Race	12	2.7	8	1.7	11	2.3	5	1.3	36	2.0
	Unknown	3	0.7	13	2.7	10	2.1	5	1.3	31	1.7
	Total	450	100.0	475	100.0	471	100.0	399	100.0	1,795	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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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, 2015-2017

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
ALAMANCE	797	833	862	319	381	257	15	23	13	6	24	10
ALEXANDER	62	90	65	5	15	26	0	1	0	0	0	0
ALLEGHANY	18	16	25	0	1	2	0	0	0	0	0	0
ANSON	171	173	162	96	101	61	3	4	2	0	0	0
ASHE	25	42	41	0	6	4	0	0	0	2	0	0
AVERY	12	32	33	1	6	5	0	0	0	0	0	0
BEAUFORT	230	254	252	59	62	76	1	4	1	3	2	0
BERTIE	161	130	142	59	38	42	0	1	2	0	1	1
BLADEN	150	182	163	44	76	90	2	0	1	4	0	2
BRUNSWICK	316	349	397	112	136	133	2	4	8	6	3	4
BUNCOMBE	872	998	1,094	300	254	451	13	25	31	11	11	11
BURKE	269	285	331	40	69	164	0	5	7	0	2	7
CABARRUS	813	922	970	159	251	255	19	6	10	7	9	10
CALDWELL	199	208	234	23	57	104	4	3	2	1	1	4
CAMDEN	21	23	24	3	4	7	0	0	0	0	0	0
CARTERET	227	194	216	40	44	41	3	2	0	0	0	1
CASWELL	106	92	116	34	40	38	2	2	1	0	1	0
CATAWBA	500	583	620	127	125	292	3	3	10	10	6	7
CHATHAM	185	157	193	53	39	55	1	4	3	1	0	2
CHEROKEE	27	38	40	6	8	11	3	0	0	2	0	0
CHOWAN	80	87	97	7	27	36	1	0	1	0	0	0
CLAY	10	14	18	1	2	1	0	0	0	0	0	0
CLEVELAND	488	508	561	152	254	348	3	3	5	5	3	1
COLUMBUS	285	313	308	94	99	213	6	1	7	4	2	3
CRAVEN	702	727	786	169	230	183	10	6	5	9	3	5
CUMBERLAND	3,131	3,360	3,233	1,016	1,246	1,435	79	52	43	37	29	29
CURRITUCK	73	67	57	8	10	15	0	0	1	0	0	1
DARE	98	69	103	28	9	26	1	0	0	1	1	1
DAVIDSON	638	681	649	251	286	278	9	5	9	2	6	6
DAVIE	105	131	129	26	39	42	1	2	2	0	0	0
DUPLIN	225	218	270	77	87	86	3	1	3	3	2	1
DURHAM	2,284	2,426	2,668	738	966	1,045	87	67	74	47	53	46
EDGECOMBE	584	497	499	200	189	234	13	9	8	11	7	9
FORSYTH	2,484	2,626	2,420	1,044	1,050	926	49	56	55	32	30	24
FRANKLIN	253	265	311	87	67	113	3	1	1	1	1	1
GASTON	1,154	1,279	1,368	299	476	530	12	26	18	12	13	8
GATES	44	42	40	12	19	12	0	0	0	0	0	0
GRAHAM	17	17	21	2	1	3	0	0	0	0	0	0
GRANVILLE	392	487	473	96	107	132	7	6	3	1	4	4
GREENE	135	157	146	43	46	48	0	1	2	1	1	0
GUILFORD	4,138	4,605	4,890	1,656	1,776	1,881	120	92	113	78	77	68
HALIFAX	415	369	393	179	111	154	2	6	5	3	1	3
HARNETT	559	605	667	148	164	190	9	5	5	8	5	1
HAYWOOD	131	133	136	25	13	42	0	7	7	1	1	2
HENDERSON	205	286	314	52	57	101	3	6	10	2	2	4
HERTFORD	209	166	152	48	39	46	0	1	0	0	1	3
HOKE	327	352	358	140	151	152	3	1	5	3	3	4
HYDE	23	16	25	4	2	6	0	0	0	0	1	1
IREDELL	588	613	758	149	152	362	4	7	9	3	3	3
JACKSON	136	152	200	31	26	83	6	6	3	2	1	0
JOHNSTON	715	727	795	196	223	254	10	11	7	10	10	7
JONES	37	40	58	20	19	19	0	2	2	0	0	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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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, 2015-2017

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
LEE	275	333	318	81	143	95	6	3	3	2	3	1
LENOIR	372	449	458	162	157	195	9	6	4	7	7	1
LINCOLN	253	226	253	41	58	76	2	8	3	2	2	1
MACON	80	70	97	14	13	14	1	1	2	0	0	0
MADISON	55	55	53	10	5	15	0	1	0	0	1	0
MARTIN	124	131	142	25	33	32	3	1	2	3	2	1
MCDOWELL	157	163	175	31	34	100	1	4	1	1	0	0
MECKLENBURG	7,893	7,978	8,733	2,575	2,781	3,152	254	294	257	151	192	160
MITCHELL	13	34	32	0	11	6	0	0	0	0	0	1
MONTGOMERY	112	125	153	25	43	33	2	2	1	1	1	3
MOORE	304	342	315	59	94	89	3	2	1	3	2	3
NASH	603	644	628	243	223	299	18	19	11	10	14	8
NEW HANOVER	1,113	1,170	1,252	360	476	405	25	5	36	7	8	17
NORTHAMPTON	128	114	118	43	38	68	0	2	3	0	6	0
ONSLow	1,520	1,738	1,583	224	307	350	7	9	15	9	9	9
ORANGE	634	692	769	182	175	229	12	6	11	3	5	5
PAMLICO	19	21	42	5	10	10	1	1	0	0	0	0
PASQUOTANK	275	278	306	62	60	85	2	1	3	1	2	0
PENDER	151	198	223	53	72	46	4	2	5	5	2	2
PERQUIMANS	38	53	75	8	16	13	0	0	0	0	0	0
PERSON	198	209	235	61	79	74	3	5	4	1	1	1
PITT	1,703	1,904	2,042	565	665	663	31	26	19	20	19	10
POLK	19	39	47	2	9	13	0	0	1	0	0	0
RANDOLPH	419	420	463	156	185	153	9	8	8	3	4	2
RICHMOND	367	370	420	99	106	106	0	1	1	2	5	1
ROBESON	1,107	1,218	1,215	360	516	547	16	13	9	14	15	8
ROCKINGHAM	290	377	330	101	189	174	2	2	4	2	5	8
ROWAN	760	735	920	169	203	255	5	11	12	5	4	5
RUTHERFORD	188	223	239	44	83	151	3	4	2	2	0	3
SAMPSON	284	324	277	88	136	97	6	4	2	3	2	5
SCOTLAND	284	305	307	73	90	151	3	4	1	3	5	1
STANLY	224	247	237	45	72	59	2	0	6	1	2	2
STOKES	120	118	97	15	32	25	1	0	0	0	1	1
SURRY	169	185	207	15	34	46	2	2	3	1	2	1
SWAIN	112	109	88	24	24	36	0	1	0	0	0	0
TRANSYLVANIA	65	62	67	13	7	14	0	1	0	0	1	2
TYRRELL	9	16	14	1	0	3	0	0	0	0	0	0
UNION	775	805	812	210	267	203	8	9	17	7	8	13
VANCE	451	490	461	142	224	254	6	9	2	3	4	2
WAKE	4,966	5,518	5,897	1,452	1,628	2,036	147	127	120	101	122	117
WARREN	131	123	104	23	36	34	0	0	1	1	1	0
WASHINGTON	81	84	82	16	16	20	2	1	1	1	1	0
WATAUGA	175	202	261	18	28	22	0	2	2	0	0	1
WAYNE	788	830	777	358	419	334	13	12	13	11	8	3
WILKES	167	153	175	8	27	48	4	1	1	2	0	1
WILSON	485	468	507	293	231	258	12	5	12	12	9	7
YADKIN	80	76	71	14	17	25	0	1	1	1	1	0
YANCEY	21	24	28	2	2	9	0	0	0	0	0	1
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	54,383	58,084	60,988	17,048	19,730	22,232	1,137	1,083	1,094	730	796	701

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 5, 2018).

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Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2015-2017

COUNTY	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
ALAMANCE	14	18	21
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	4	5	4
ASHE	0	2	0
AVERY	1	1	0
BEAUFORT	2	3	5
BERTIE	10	4	2
BLADEN	5	2	4
BRUNSWICK	5	9	10
BUNCOMBE	21	22	22
BURKE	6	5	6
CABARRUS	12	26	16
CALDWELL	4	4	5
CAMDEN	1	1	0
CARTERET	4	2	1
CASWELL	3	2	1
CATAWBA	12	10	7
CHATHAM	5	2	5
CHEROKEE	1	2	1
CHOWAN	1	2	0
CLAY	0	0	2
CLEVELAND	8	10	13
COLUMBUS	8	2	10
Craven	8	10	4
CUMBERLAND	83	66	75
CURRITUCK	0	1	0
DARE	4	2	3
DAVIDSON	10	11	14
DAVIE	1	2	4
DUPLIN	9	2	6
DURHAM	61	85	65
EDGECOMBE	16	8	15
FORSYTH	54	82	68
FRANKLIN	6	4	7
GASTON	31	20	27
GATES	0	1	0
GRAHAM	0	0	0
GRANVILLE	5	6	7
GREENE	3	1	3
GUILFORD	123	139	132
HALIFAX	9	5	10
HARNETT	12	10	14
HAYWOOD	2	2	3
HENDERSON	10	9	7
HERTFORD	2	1	2
HOKE	5	3	4
HYDE	0	1	0
IREDELL	8	5	12
JACKSON	2	0	3
JOHNSTON	13	13	9

COUNTY	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
JONES	0	0	3
LEE	7	5	3
LENOIR	8	7	5
LINCOLN	3	3	3
MACON	4	2	2
MADISON	0	2	0
MARTIN	4	3	2
MCDOWELL	1	1	0
MECKLENBURG	287	271	291
MITCHELL	0	1	0
MONTGOMERY	1	0	4
MOORE	8	6	1
NASH	14	16	11
NEW HANOVER	26	25	35
NORTHAMPTON	4	4	3
ONslow	24	22	18
ORANGE	14	10	5
PAMLICO	0	0	1
PASQUOTANK	2	5	7
PENDER	3	9	3
PERQUIMANS	2	0	1
PERSON	5	5	4
PITT	33	31	39
POLK	0	1	0
RANDOLPH	4	10	6
RICHMOND	1	7	6
ROBESON	29	19	17
ROCKINGHAM	5	10	10
ROWAN	11	19	15
RUTHERFORD	5	2	6
SAMPSON	3	11	12
SCOTLAND	12	3	4
STANLY	1	6	0
STOKES	1	2	1
SURRY	3	3	0
SWAIN	0	0	0
TRANSYLVANIA	0	0	1
TYRRELL	0	2	0
UNION	17	22	16
VANCE	6	9	6
WAKE	134	170	138
WARREN	3	1	1
WASHINGTON	0	2	1
WATAUGA	3	2	2
WAYNE	16	11	16
WILKES	1	4	3
WILSON	9	9	14
YADKIN	2	2	3
YANCEY	0	1	0
UNASSIGNED*	23	23	17
TOTAL	1,343	1,402	1,365

* 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 5, 2018).

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Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2015-2017

COUNTY	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
ALAMANCE	8	10	10
ALEXANDER	0	3	1
ALLEGHANY	0	0	0
ANSON	1	1	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	4	3	2
BERTIE	2	3	2
BLADEN	2	2	4
BRUNSWICK	0	5	4
BUNCOMBE	11	7	14
BURKE	2	5	0
CABARRUS	9	12	4
CALDWELL	2	5	1
CAMDEN	1	1	0
CARTERET	2	0	1
CASWELL	1	0	2
CATAWBA	6	2	2
CHATHAM	5	2	3
CHEROKEE	1	1	1
CHOWAN	1	1	0
CLAY	0	0	1
CLEVELAND	3	9	5
COLUMBUS	5	1	3
CRAVEN	6	4	2
CUMBERLAND	35	33	23
CURRITUCK	0	0	0
DARE	2	0	1
DAVIDSON	15	9	7
DAVIE	0	1	0
DUPLIN	1	1	5
DURHAM	52	32	33
EDGECOMBE	4	8	9
FORSYTH	62	30	44
FRANKLIN	3	1	3
GASTON	17	12	17
GATES	0	0	0
GRAHAM	0	0	0
GRANVILLE	5	5	5
GREENE	4	0	2
GUILFORD	36	30	30
HALIFAX	3	2	4
HARNETT	7	2	8
HAYWOOD	1	0	2
HENDERSON	3	2	5
HERTFORD	1	1	1
HOKE	1	3	4
HYDE	0	0	0
IREDELL	7	3	8
JACKSON	1	0	1
JOHNSTON	7	8	5
JONES	0	0	2
LEE	5	6	4

COUNTY	2015 Jan-Dec	2016 Jan-Dec	2017 Jan-Dec
LENOIR	6	7	5
LINCOLN	2	1	1
MACON	1	1	0
MADISON	3	0	0
MARTIN	3	2	2
MCDOWELL	1	1	1
MECKLENBURG	143	122	94
MITCHELL	0	1	0
MONTGOMERY	2	1	2
MOORE	4	3	1
NASH	10	10	8
NEW HANOVER	8	7	9
NORTHAMPTON	3	3	3
ONSLow	6	6	7
ORANGE	8	4	2
PAMLICO	0	0	0
PASQUOTANK	2	1	4
PENDER	1	1	0
PERQUIMANS	0	2	0
PERSON	6	1	1
PITT	9	15	21
POLK	0	1	0
RANDOLPH	6	2	2
RICHMOND	4	2	6
ROBESON	15	14	9
ROCKINGHAM	4	1	3
ROWAN	5	7	10
RUTHERFORD	3	3	3
SAMPSON	1	2	5
SCOTLAND	6	5	1
STANLY	5	3	0
STOKES	2	0	1
SURRY	4	0	0
SWAIN	0	0	0
TRANSYLVANIA	0	0	1
TYRRELL	0	1	0
UNION	7	7	9
VANCE	6	2	3
WAKE	69	66	68
WARREN	2	0	3
WASHINGTON	0	0	0
WATAUGA	1	0	1
WAYNE	7	11	8
WILKES	1	1	2
WILSON	9	8	6
YADKIN	0	1	1
YANCEY	0	1	0
UNASSIGNED*	14	5	7
TOTAL	733	598	596

* 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 5, 2018).