

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2016, 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. Even though the data for 2016 has not been closed out, the case numbers for all diseases are within 5-10% of the actual number. 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

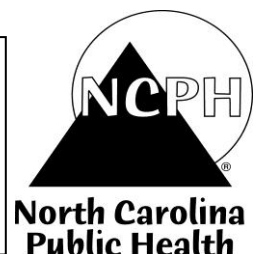
North Carolina law requires that diagnoses of certain communicable diseases, including sexually transmitted diseases (STDs), be reported to local health departments that in turn report the information to the state. The HIV/STD Surveillance Unit (HSSU) is the designated recipient for STD morbidity reports 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. 2016, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2016. 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 2016. 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, 2016

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	--- ^a	--- ^a	0	0.0	--- ^a	--- ^a	0	0.0	6	0.0
	0-9	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	9	0.0
	10-14	7	0.0	14	0.1	9	0.1	5	0.1	35	0.1
	15-19	777	5.4	702	5.0	834	5.8	577	6.9	2,890	5.7
	20-24	1,661	11.6	1,588	11.4	1,649	11.4	1,023	12.2	5,921	11.6
	25-29	810	5.6	898	6.4	867	6.0	529	6.3	3,104	6.1
	30-34	370	2.6	370	2.7	397	2.8	243	2.9	1,380	2.7
	35-39	216	1.5	191	1.4	217	1.5	133	1.6	757	1.5
	40-44	98	0.7	111	0.8	99	0.7	64	0.8	372	0.7
	45-54	96	0.7	112	0.8	115	0.8	62	0.7	385	0.8
	55-64	31	0.2	35	0.3	--- ^a	--- ^a	--- ^a	--- ^a	130	0.3
	65+	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	24	0.0
Total	4,078	28.4	4,030	28.9	4,236	29.3	2,669	31.9	15,013	29.4	
Female	Unknown	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	15	0.0
	0-9	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	9	0.0
	10-14	96	0.7	70	0.5	86	0.6	62	0.7	314	0.6
	15-19	3,067	21.4	3,012	21.6	3,284	22.8	2,074	24.8	11,437	22.4
	20-24	4,200	29.3	4,004	28.7	3,928	27.2	2,031	24.3	14,163	27.7
	25-29	1,688	11.8	1,698	12.2	1,690	11.7	801	9.6	5,877	11.5
	30-34	668	4.7	628	4.5	678	4.7	387	4.6	2,361	4.6
	35-39	295	2.1	281	2.0	281	1.9	184	2.2	1,041	2.0
	40-44	126	0.9	122	0.9	127	0.9	73	0.9	448	0.9
	45-54	96	0.7	84	0.6	96	0.7	71	0.8	347	0.7
	55-64	21	0.1	24	0.2	--- ^a	--- ^a	--- ^a	--- ^a	65	0.1
	65+	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	9	0.0
Total	10,268	71.6	9,932	71.1	10,194	70.6	5,692	68.1	36,086	70.6	
Total^b	Unknown	9	0.1	4	0.0	8	0.1	0	0.0	21	0.0
	0-9	4	0.0	6	0.0	8	0.1	0	0.0	18	0.0
	10-14	103	0.7	84	0.6	95	0.7	67	0.8	349	0.7
	15-19	3,845	26.8	3,714	26.6	4,119	28.5	2,651	31.7	14,329	28.0
	20-24	5,861	40.9	5,592	40.1	5,579	38.6	3,055	36.5	20,087	39.3
	25-29	2,498	17.4	2,596	18.6	2,557	17.7	1,330	15.9	8,981	17.6
	30-34	1,038	7.2	998	7.1	1,076	7.5	630	7.5	3,742	7.3
	35-39	511	3.6	472	3.4	499	3.5	317	3.8	1,799	3.5
	40-44	224	1.6	233	1.7	226	1.6	137	1.6	820	1.6
	45-54	192	1.3	196	1.4	211	1.5	133	1.6	732	1.4
	55-64	52	0.4	59	0.4	50	0.3	34	0.4	195	0.4
	65+	10	0.1	8	0.1	7	0.0	8	0.1	33	0.1
Total	14,347	100.0	13,962	100.0	14,435	100.0	8,362	100.0	51,106	100.0	

^aCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

^b Total includes 7 case with unreported gender (1 case in Quarter 1, 5 in Quarter 3, and 1 in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2016

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	50	0.3	31	0.2	37	0.3	25	0.3	143	0.3
	Asian/Pacific Islander ^a	24	0.2	16	0.1	18	0.1	12	0.1	70	0.1
	Black/African American ^a	1,520	10.6	1,452	10.4	1,525	10.6	825	9.9	5,322	10.4
	Hispanic/Latino	210	1.5	217	1.6	228	1.6	148	1.8	803	1.6
	White/Caucasian ^a	568	4.0	506	3.6	557	3.9	359	4.3	1,990	3.9
	Unknown	1,706	11.9	1,808	12.9	1,871	13.0	1,300	15.5	6,685	13.1
	Total	4,078	28.4	4,030	28.9	4,236	29.3	2,669	31.9	15,013	29.4
Female	American Indian/Alaska Native ^a	158	1.1	173	1.2	139	1.0	70	0.8	540	1.1
	Asian/Pacific Islander ^a	62	0.4	53	0.4	65	0.5	34	0.4	214	0.4
	Black/African American ^a	3,666	25.6	3,582	25.7	3,483	24.1	1,600	19.1	12,331	24.1
	Hispanic/Latino	729	5.1	691	4.9	694	4.8	429	5.1	2,543	5.0
	White/Caucasian ^a	2,002	14.0	1,815	13.0	1,887	13.1	1,065	12.7	6,769	13.2
	Unknown	3,651	25.4	3,618	25.9	3,926	27.2	2,494	29.8	13,689	26.8
	Total	10,268	71.6	9,932	71.1	10,194	70.6	5,692	68.1	36,086	70.6
Total ^c	American Indian/Alaska Native ^a	208	1.4	204	1.5	176	1.2	95	1.1	683	1.3
	Asian/Pacific Islander ^a	86	0.6	69	0.5	83	0.6	46	0.6	284	0.6
	Black/African American ^a	5,186	36.1	5,034	36.1	5,012	34.7	2,425	29.0	17,657	34.5
	Hispanic/Latino	939	6.5	908	6.5	922	6.4	577	6.9	3,346	6.5
	White/Caucasian ^a	2,570	17.9	2,321	16.6	2,445	16.9	1,424	17.0	8,760	17.1
	Unknown	5,358	37.3	5,426	38.9	5,797	40.2	3,795	45.4	20,376	39.9
	Total	14,347	100.0	13,962	100.0	14,435	100.0	8,362	100.0	51,106	100.0

^aNon-Hispanic/Latino.

^bCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

^cTotal includes 7 case with unreported gender (1 case in Quarter 1, 5 in Quarter 3, and 1 in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2016

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	--- ^a	--- ^a	--- ^a	--- ^a
	0-9	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	--- ^a	--- ^a
	10-14	--- ^a	--- ^a	6	0.1	9	0.2	--- ^a	--- ^a	24	0.1
	15-19	301	6.7	316	6.7	331	6.5	218	6.7	1,166	6.7
	20-24	750	16.7	771	16.3	792	15.7	513	15.7	2,826	16.1
	25-29	513	11.4	549	11.6	626	12.4	431	13.2	2,119	12.1
	30-34	290	6.5	282	6.0	316	6.3	186	5.7	1,074	6.1
	35-39	166	3.7	174	3.7	178	3.5	134	4.1	652	3.7
	40-44	89	2.0	103	2.2	120	2.4	79	2.4	391	2.2
	45-54	145	3.2	131	2.8	167	3.3	105	3.2	548	3.1
	55-64	51	1.1	50	1.1	59	1.2	44	1.3	204	1.2
	65+	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	49	0.3
Total		2,320	51.8	2,394	50.6	2,614	51.7	1,729	52.9	9,057	51.7
Female	Unknown	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	--- ^a	--- ^a	--- ^a	--- ^a
	0-9	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	0	0.0	--- ^a	--- ^a
	10-14	--- ^a	--- ^a	16	0.3	30	0.6	--- ^a	--- ^a	76	0.4
	15-19	543	12.1	535	11.3	606	12.0	397	12.2	2,081	11.9
	20-24	780	17.4	841	17.8	878	17.4	550	16.8	3,049	17.4
	25-29	442	9.9	517	10.9	472	9.3	312	9.6	1,743	9.9
	30-34	203	4.5	215	4.5	234	4.6	138	4.2	790	4.5
	35-39	89	2.0	116	2.5	124	2.5	67	2.1	396	2.3
	40-44	46	1.0	47	1.0	49	1.0	30	0.9	172	1.0
	45-54	27	0.6	38	0.8	35	0.7	19	0.6	119	0.7
	55-64	5	0.1	8	0.2	10	0.2	13	0.4	36	0.2
	65+	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	--- ^a	7	0.0
Total		2,161	48.2	2,337	49.4	2,441	48.3	1,537	47.1	8,476	48.3
Total	Unknown	1	0.0	1	0.0	0	0.0	3	0.1	5	0.0
	0-9	2	0.0	2	0.0	2	0.0	0	0.0	6	0.0
	10-14	26	0.6	22	0.5	39	0.8	13	0.4	100	0.6
	15-19	844	18.8	851	18.0	937	18.5	615	18.8	3,247	18.5
	20-24	1,530	34.1	1,612	34.1	1,670	33.0	1,063	32.5	5,875	33.5
	25-29	955	21.3	1,066	22.5	1,098	21.7	743	22.7	3,862	22.0
	30-34	493	11.0	497	10.5	550	10.9	324	9.9	1,864	10.6
	35-39	255	5.7	290	6.1	302	6.0	201	6.2	1,048	6.0
	40-44	135	3.0	150	3.2	169	3.3	109	3.3	563	3.2
	45-54	172	3.8	169	3.6	202	4.0	124	3.8	667	3.8
	55-64	56	1.2	58	1.2	69	1.4	57	1.7	240	1.4
	65+	12	0.3	13	0.3	17	0.3	14	0.4	56	0.3
Total		4,481	100.0	4,731	100.0	5,055	100.0	3,266	100.0	17,533	100.0

^aCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2016

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	--- ^b	--- ^b	34	0.7	29	0.6	--- ^b	--- ^b	100	0.6
	Asian/Pacific Islander ^a	--- ^b	--- ^b	6	0.1	8	0.2	--- ^b	--- ^b	21	0.1
	Black/African American ^a	1,239	27.7	1,221	25.8	1,377	27.2	881	27.0	4,718	26.9
	Hispanic/Latino	83	1.9	91	1.9	98	1.9	71	2.2	343	2.0
	White/Caucasian ^a	244	5.4	259	5.5	275	5.4	172	5.3	950	5.4
	Unknown	727	16.2	783	16.6	827	16.4	588	18.0	2,925	16.7
	Total	2,320	51.8	2,394	50.6	2,614	51.7	1,729	52.9	9,057	51.7
Female	American Indian/Alaska Native ^a	--- ^b	--- ^b	32	0.7	32	0.6	--- ^b	--- ^b	137	0.8
	Asian/Pacific Islander ^a	--- ^b	--- ^b	6	0.1	5	0.1	--- ^b	--- ^b	18	0.1
	Black/African American ^a	1,071	23.9	1,139	24.1	1,166	23.1	713	21.8	4,089	23.3
	Hispanic/Latino	78	1.7	60	1.3	65	1.3	44	1.3	247	1.4
	White/Caucasian ^a	311	6.9	352	7.4	337	6.7	240	7.3	1,240	7.1
	Unknown	651	14.5	748	15.8	836	16.5	510	15.6	2,745	15.7
	Total	2,161	48.2	2,337	49.4	2,441	48.3	1,537	47.1	8,476	48.3
Total	American Indian/Alaska Native ^a	66	1.5	66	1.4	61	1.2	44	1.3	237	1.4
	Asian/Pacific Islander ^a	11	0.2	12	0.3	13	0.3	3	0.1	39	0.2
	Black/African American ^a	2,310	51.6	2,360	49.9	2,543	50.3	1,594	48.8	8,807	50.2
	Hispanic/Latino	161	3.6	151	3.2	163	3.2	115	3.5	590	3.4
	White/Caucasian ^a	555	12.4	611	12.9	612	12.1	412	12.6	2,190	12.5
	Unknown	1,378	30.8	1,531	32.4	1,663	32.9	1,098	33.6	5,670	32.3
	Total	4,481	100.0	4,731	100.0	5,055	100.0	3,266	100.0	17,533	100.0

^aNon-Hispanic/Latino.

^bCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2016

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 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	---	---
	15-19	20	3.7	19	3.9	14	3.0	19	5.3	72	3.9
	20-24	93	17.4	82	16.7	80	17.0	45	12.6	300	16.2
	25-29	106	19.8	95	19.3	99	21.0	74	20.7	374	20.2
	30-34	69	12.9	78	15.9	46	9.8	48	13.4	241	13.0
	35-39	49	9.1	---	---	---	---	32	9.0	167	9.0
	40-44	---	---	26	5.3	---	---	---	---	117	6.3
	45-54	63	11.8	57	11.6	---	---	---	---	221	11.9
	55-64	23	4.3	20	4.1	25	5.3	---	---	79	4.3
	65+	---	---	---	---	---	---	---	---	20	1.1
Total		467	87.1	422	85.9	402	85.4	300	84.0	1,591	85.8
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	---	---
	15-19	9	1.7	7	1.4	7	1.5	6	1.7	29	1.6
	20-24	11	2.1	13	2.6	15	3.2	9	2.5	48	2.6
	25-29	16	3.0	17	3.5	21	4.5	15	4.2	69	3.7
	30-34	12	2.2	8	1.6	7	1.5	11	3.1	38	2.0
	35-39	7	1.3	---	---	---	---	8	2.2	24	1.3
	40-44	---	---	7	1.4	---	---	---	---	15	0.8
	45-54	8	1.5	8	1.6	---	---	---	---	25	1.3
	55-64	0	0.0	---	---	6	1.3	---	---	12	0.6
	65+	---	---	---	---	---	---	---	---	---	---
Total		69	12.9	69	14.1	69	14.6	57	16.0	264	14.2
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	1	0.2	0	0.0	0	0.0	0	0.0	1	0.1
	15-19	29	5.4	26	5.3	21	4.5	25	7.0	101	5.4
	20-24	104	19.4	95	19.3	95	20.2	54	15.1	348	18.8
	25-29	122	22.8	112	22.8	120	25.5	89	24.9	443	23.9
	30-34	81	15.1	86	17.5	53	11.3	59	16.5	279	15.0
	35-39	56	10.4	44	9.0	51	10.8	40	11.2	191	10.3
	40-44	44	8.2	33	6.7	28	5.9	27	7.6	132	7.1
	45-54	71	13.2	65	13.2	64	13.6	46	12.9	246	13.3
	55-64	23	4.3	24	4.9	31	6.6	13	3.6	91	4.9
65+	5	0.9	6	1.2	8	1.7	4	1.1	23	1.2	
Total		536	100.0	491	100.0	471	100.0	357	100.0	1,855	100.0

^aCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2016

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2016 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	---	---	---	---	---	---	---	---	---	---
	Asian/Pacific Islander ^a	---	---	---	---	---	---	0	0.0	---	---
	Black/African American ^a	289	53.9	251	51.1	230	48.8	178	49.9	948	51.1
	Hispanic/Latino	---	---	---	---	---	---	---	---	130	7.0
	White/Caucasian ^a	123	22.9	109	22.2	118	25.1	77	21.6	427	23.0
	Unknown	---	---	---	---	14	3.0	---	---	62	3.3
	Total	467	87.1	422	85.9	402	85.4	300	84.0	1,591	85.8
Female	American Indian/Alaska Native ^a	---	---	---	---	---	---	---	---	---	---
	Asian/Pacific Islander ^a	---	---	---	---	---	---	0	0.0	---	---
	Black/African American ^a	54	10.1	44	9.0	48	10.2	43	12.0	189	10.2
	Hispanic/Latino	---	---	---	---	---	---	---	---	8	0.4
	White/Caucasian ^a	8	1.5	19	3.9	13	2.8	10	2.8	50	2.7
	Unknown	---	---	---	---	5	1.1	---	---	12	0.6
	Total	69	12.9	69	14.1	69	14.6	57	16.0	264	14.2
Total ^c	American Indian/Alaska Native ^a	4	0.7	3	0.6	4	0.8	4	1.1	15	0.8
	Asian/Pacific Islander ^a	1	0.2	8	1.6	5	1.1	0	0.0	14	0.8
	Black/African American ^a	343	64.0	295	60.1	278	59.0	221	61.9	1,137	61.3
	Hispanic/Latino	38	7.1	39	7.9	34	7.2	27	7.6	138	7.4
	White/Caucasian ^a	131	24.4	128	26.1	131	27.8	87	24.4	477	25.7
	Unknown	19	3.5	18	3.7	19	4.0	18	5.0	74	4.0
	Total	536	100.0	491	100.0	471	100.0	357	100.0	1,855	100.0

^aNon-Hispanic/Latino.

^bCell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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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, 2014-2016

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2014 Jan-Sep	2015 Jan-Sep	2016 Jan-Sep	2014 Jan-Sep	2015 Jan-Sep	2016 Jan-Sep	2014 Jan-Sep	2015 Jan-Sep	2016 Jan-Sep	2014 Jan-Sep	2015 Jan-Sep	2016 Jan-Sep
ALAMANCE	727	797	743	299	319	349	6	15	24	6	6	24
ALEXANDER	79	62	80	12	5	13	0	0	1	0	0	0
ALLEGHANY	17	18	11	1	0	0	0	0	0	0	0	0
ANSON	176	171	149	70	96	97	0	3	4	0	0	0
ASHE	19	25	39	1	0	5	0	0	1	0	2	0
AVERY	8	12	27	1	1	5	0	0	0	0	0	0
BEAUFORT	232	230	227	42	59	57	3	1	4	3	3	2
BERTIE	124	161	106	41	59	28	0	0	1	0	0	1
BLADEN	191	150	159	57	44	66	4	2	0	2	2	0
BRUNSWICK	250	316	294	82	112	114	1	2	4	0	6	2
BUNCOMBE	808	872	912	246	300	221	7	13	25	8	12	11
BURKE	201	269	257	22	40	60	2	0	5	0	0	2
CABARRUS	769	813	853	165	159	229	4	19	6	4	7	7
CALDWELL	184	199	185	27	23	43	0	4	4	0	1	1
CAMDEN	29	21	19	4	3	4	0	0	0	0	0	0
CARTERET	186	227	180	23	40	42	0	3	2	2	0	0
CASWELL	66	106	78	20	34	36	0	2	2	1	0	0
CATAWBA	516	500	523	105	127	105	2	3	3	5	10	6
CHATHAM	162	185	142	32	53	37	1	1	4	1	1	0
CHEROKEE	36	27	33	3	6	6	0	3	0	0	2	0
CHOWAN	90	80	78	20	7	22	0	1	0	0	0	0
CLAY	17	10	13	5	1	1	0	0	0	0	0	0
CLEVELAND	447	488	444	125	152	224	2	3	3	0	5	3
COLUMBUS	232	285	291	87	94	94	0	6	1	1	4	2
CRAVEN	643	702	622	129	169	208	4	10	5	7	8	4
CUMBERLAND	3,131	3,131	2,815	1,116	1,016	1,092	50	80	52	25	36	30
CURRITUCK	68	73	57	7	8	9	0	0	0	0	0	0
DARE	88	98	65	8	28	9	0	1	0	0	1	2
DAVIDSON	503	638	620	133	251	254	4	9	5	3	2	6
DAVIE	115	105	96	31	26	33	0	1	2	0	0	0
DUPLIN	224	225	194	43	77	72	1	3	1	1	3	2
DURHAM	2,160	2,284	2,154	752	738	857	49	88	66	24	46	51
EDGECOMBE	557	584	439	197	200	172	6	13	9	3	11	7
FORSYTH	2,422	2,484	2,123	936	1,044	855	32	50	55	19	34	30
FRANKLIN	270	253	194	94	87	46	3	4	1	0	1	1
GASTON	1,167	1,154	1,122	282	299	413	7	12	25	4	11	14
GATES	41	44	31	6	12	14	1	0	0	0	0	0
GRAHAM	20	17	14	4	2	1	0	0	0	0	0	0
GRANVILLE	314	392	443	68	96	99	1	7	6	0	1	3
GREENE	97	135	140	32	43	44	3	0	1	1	1	2
GUILFORD	3,563	4,138	4,140	1,271	1,656	1,656	40	120	86	49	80	77
HALIFAX	422	415	271	86	179	77	1	1	6	0	3	1
HARNETT	484	559	537	105	148	150	4	10	5	1	7	5
HAYWOOD	109	131	124	26	25	11	1	0	7	2	1	1
HENDERSON	224	205	212	45	52	51	2	3	6	2	2	2
HERTFORD	186	209	150	38	48	36	3	0	1	1	0	1
HOKE	266	327	291	92	140	133	1	4	1	2	3	5
HYDE	8	23	16	0	4	2	0	0	0	1	0	1
IREDELL	493	588	555	113	149	140	0	4	7	0	3	3
JACKSON	122	136	127	44	31	22	0	6	6	0	2	1
JOHNSTON	498	715	650	115	196	205	10	10	10	3	10	10
JONES	27	37	35	12	20	18	0	0	2	1	0	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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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, 2014-2016

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec
LEE	273	275	307	57	81	131	1	6	3	0	2	4
LENOIR	396	372	402	155	162	141	12	9	7	1	7	8
LINCOLN	194	253	208	33	41	56	2	2	8	5	3	2
MACON	84	80	54	13	14	12	0	1	1	1	0	0
MADISON	36	55	45	9	10	5	1	0	1	0	0	1
MARTIN	114	124	117	31	25	27	2	3	1	0	3	2
MCDOWELL	114	157	144	13	31	31	0	1	4	0	1	0
MECKLENBURG	6,939	7,893	7,183	2,392	2,575	2,534	178	261	286	96	152	185
MITCHELL	15	13	30	1	0	9	0	0	0	0	0	0
MONTGOMERY	105	112	109	33	25	40	0	2	2	0	1	1
MOORE	282	304	289	70	59	86	2	3	2	2	3	2
NASH	608	603	566	192	243	187	11	18	19	1	10	13
NEW HANOVER	1,000	1,113	1,040	357	360	449	10	25	5	8	7	8
NORTHAMPTON	144	128	98	41	43	25	1	0	2	1	0	6
ONSLOW	1,244	1,520	1,521	239	224	272	9	7	8	3	9	10
ORANGE	530	634	636	123	182	163	11	12	6	5	3	5
PAMLICO	42	19	20	12	5	9	0	1	1	0	0	0
PASQUOTANK	232	275	251	60	62	46	0	2	1	4	1	2
PENDER	153	151	177	56	53	65	1	4	2	1	5	2
PERQUIMANS	48	38	50	19	8	15	0	0	0	0	0	0
PERSON	161	198	190	47	61	66	1	3	5	0	1	1
PITT	1,608	1,703	1,547	404	565	541	21	32	26	15	20	20
POLK	31	19	33	6	2	7	1	0	0	0	0	0
RANDOLPH	459	419	394	114	156	168	1	9	8	2	2	4
RICHMOND	334	367	286	59	99	85	1	0	1	0	2	5
ROBESON	1,036	1,107	1,066	372	360	457	13	15	11	13	14	16
ROCKINGHAM	257	290	352	93	101	177	2	3	2	4	2	5
ROWAN	739	760	664	223	169	175	6	6	12	5	5	3
RUTHERFORD	185	188	208	65	44	75	0	3	4	0	2	0
SAMPSON	265	284	294	71	88	119	6	6	4	2	3	2
SCOTLAND	312	284	277	107	73	81	1	3	4	1	3	4
STANLY	196	224	215	41	45	69	5	2	0	3	1	2
STOKES	133	120	110	15	15	30	0	2	0	0	0	1
SURRY	156	169	167	18	15	32	0	2	2	0	1	2
SWAIN	62	112	94	24	24	21	0	0	1	0	0	0
TRANSYLVANIA	94	65	57	19	13	6	1	0	1	0	0	1
TYRRELL	17	9	12	2	1	0	0	0	0	0	0	0
UNION	635	775	710	119	210	233	5	9	9	2	6	9
VANCE	483	451	444	187	142	193	9	7	8	1	2	4
WAKE	4,558	4,966	4,884	1,264	1,452	1,443	112	147	125	68	102	121
WARREN	140	131	107	26	23	35	2	0	0	1	1	1
WASHINGTON	66	81	75	21	16	14	0	2	1	1	1	1
WATAUGA	132	175	173	18	18	24	2	0	2	0	0	0
WAYNE	758	788	759	245	358	388	6	13	12	2	11	9
WILKES	156	167	144	15	8	22	0	3	1	0	2	0
WILSON	536	485	432	199	293	213	10	12	5	4	12	9
YADKIN	73	80	65	13	14	17	0	0	1	1	1	1
YANCEY	33	21	20	2	2	2	1	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	49,956	54,383	51,106	14,970	17,048	17,533	702	1,153	1,063	435	728	792

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 6, 2017).

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Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2014-2016

COUNTY	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec
ALAMANCE	17	15	18
ALEXANDER	4	0	0
ALLEGHANY	0	0	0
ANSON	3	4	5
ASHE	0	0	2
AVERY	0	1	1
BEAUFORT	5	2	3
BERTIE	7	9	5
BLADEN	3	5	2
BRUNSWICK	8	5	9
BUNCOMBE	21	21	25
BURKE	1	6	5
CABARRUS	18	12	26
CALDWELL	1	4	4
CAMDEN	0	1	1
CARTERET	5	4	3
CASWELL	0	3	2
CATAWBA	14	12	10
CHATHAM	0	5	2
CHEROKEE	1	1	2
CHOWAN	1	1	2
CLAY	0	0	0
CLEVELAND	7	8	10
COLUMBUS	8	8	3
Craven	9	8	11
CUMBERLAND	76	84	70
CURRITUCK	0	0	1
DARE	1	4	2
DAVIDSON	9	10	11
DAVIE	0	1	2
DUPLIN	5	9	3
DURHAM	67	61	84
EDGECOMBE	16	16	9
FORSYTH	50	55	84
FRANKLIN	1	6	4
GASTON	22	31	20
GATES	0	0	1
GRAHAM	0	0	0
GRANVILLE	4	5	6
GREENE	5	3	1
GUILFORD	98	121	144
HALIFAX	11	9	5
HARNETT	9	11	10
HAYWOOD	2	2	2
HENDERSON	4	10	10
HERTFORD	3	2	1
HOKE	9	5	3
HYDE	0	0	1
IREDELL	4	8	6
JACKSON	3	2	0
JOHNSTON	15	13	14

COUNTY	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec
JONES	1	0	0
LEE	4	7	6
LENOIR	10	8	7
LINCOLN	0	3	3
MACON	3	3	2
MADISON	0	0	2
MARTIN	0	4	3
MCDOWELL	1	1	1
MECKLENBURG	309	286	280
MITCHELL	0	0	1
MONTGOMERY	3	1	0
MOORE	11	9	6
NASH	16	14	17
NEW HANOVER	13	26	28
NORTHAMPTON	5	4	4
ONslow	21	25	23
ORANGE	10	14	11
PAMLICO	2	0	0
PASQUOTANK	4	2	5
PENDER	7	4	8
PERQUIMANS	2	2	0
PERSON	3	5	5
PITT	38	33	33
POLK	2	0	1
RANDOLPH	6	4	10
RICHMOND	4	1	7
ROBESON	21	29	19
ROCKINGHAM	7	5	10
ROWAN	13	11	18
RUTHERFORD	1	5	2
SAMPSON	6	3	10
SCOTLAND	8	12	3
STANLY	7	1	7
STOKES	0	1	2
SURRY	1	3	3
SWAIN	1	0	0
TRANSYLVANIA	1	0	0
TYRRELL	0	0	2
UNION	15	17	23
VANCE	12	6	9
WAKE	154	134	180
WARREN	0	2	1
WASHINGTON	5	0	2
WATAUGA	2	3	2
WAYNE	11	16	11
WILKES	1	1	4
WILSON	13	9	10
YADKIN	3	2	2
YANCEY	0	0	1
UNASSIGNED*	22	23	23
TOTAL	1,326	1,342	1,452

* 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 6, 2017).

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Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2014-2016

COUNTY	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec
ALAMANCE	16	8	10
ALEXANDER	0	0	3
ALLEGHANY	0	0	0
ANSON	4	1	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	4	4	3
BERTIE	4	2	3
BLADEN	5	2	2
BRUNSWICK	5	0	4
BUNCOMBE	12	11	7
BURKE	4	2	5
CABARRUS	10	9	12
CALDWELL	4	2	5
CAMDEN	0	1	1
CARTERET	5	2	0
CASWELL	0	1	0
CATAWBA	6	6	2
CHATHAM	6	5	2
CHEROKEE	2	1	1
CHOWAN	1	1	1
CLAY	0	0	0
CLEVELAND	9	3	9
COLUMBUS	4	5	1
CRAVEN	6	6	4
CUMBERLAND	41	35	33
CURRITUCK	0	0	0
DARE	0	2	0
DAVIDSON	3	15	9
DAVIE	0	0	1
DUPLIN	0	1	1
DURHAM	46	52	32
EDGECOMBE	6	4	8
FORSYTH	13	62	30
FRANKLIN	1	3	1
GASTON	14	17	12
GATES	0	0	0
GRAHAM	0	0	0
GRANVILLE	5	5	5
GREENE	3	4	0
GUILFORD	24	36	31
HALIFAX	4	3	2
HARNETT	8	7	2
HAYWOOD	1	1	0
HENDERSON	0	3	2
HERTFORD	2	2	1
HOKE	5	1	3
HYDE	0	0	0
IREDELL	4	7	3
JACKSON	2	1	0
JOHNSTON	15	7	9
JONES	1	0	0
LEE	4	5	7

COUNTY	2014 Jan-Dec	2015 Jan-Dec	2016 Jan-Dec
LENOIR	7	6	7
LINCOLN	3	2	1
MACON	2	1	1
MADISON	0	3	0
MARTIN	1	3	2
MCDOWELL	0	1	1
MECKLENBURG	167	143	122
MITCHELL	0	0	1
MONTGOMERY	1	2	1
MOORE	8	4	3
NASH	8	10	10
NEW HANOVER	7	8	7
NORTHAMPTON	3	3	3
ONSLow	6	6	6
ORANGE	8	8	4
PAMLICO	1	0	0
PASQUOTANK	1	2	1
PENDER	4	1	1
PERQUIMANS	1	0	2
PERSON	2	6	1
PITT	9	9	15
POLK	0	0	1
RANDOLPH	2	6	2
RICHMOND	7	4	2
ROBESON	9	15	14
ROCKINGHAM	2	4	1
ROWAN	7	5	7
RUTHERFORD	0	3	3
SAMPSON	5	1	2
SCOTLAND	3	6	5
STANLY	2	5	3
STOKES	0	2	0
SURRY	1	4	0
SWAIN	0	0	0
TRANSYLVANIA	0	0	0
TYRRELL	0	0	1
UNION	8	7	7
VANCE	5	6	2
WAKE	60	69	65
WARREN	1	2	0
WASHINGTON	3	0	0
WATAUGA	0	1	0
WAYNE	13	7	11
WILKES	0	1	1
WILSON	9	9	8
YADKIN	2	0	1
YANCEY	0	0	1
UNASSIGNED*	14	14	5
TOTAL	701	734	599

* 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 6, 2017).