

# North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2018, 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 2018, chlamydia cases are approximately 10% underestimated; gonorrhea cases are approximately 3% underestimated.* Some cases listed in this report are considered presumptive; their status may change as case investigation continues.

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

### About the authors

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

### About the contents of this report

The *North Carolina HIV/STD Surveillance Report: Vol. 2018, No. 3* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through September 30, 2018. All reports are presented by the **date of diagnosis**. This report is intended as a reference document for local health departments, program managers, health planners, researchers and others who are concerned with the public health implications of these diseases. **The information in this quarterly report is meant to be brief and provide limited data on these diseases throughout the year. More detailed and complete information will continue to be available in annual publications.** This report and our annual publications are available on our website (<http://epi.publichealth.nc.gov/cd/stds/figures.html>). The CDC maintains data about these diseases for the United States; national information is available from its website (<http://www.cdc.gov/hiv/library/reports/surveillance/>).



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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 <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, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	3	0.0			3	0.0
	0-9	0	0.0	0	0.0	1	0.0			1	0.0
	10-14	6	0.0	8	0.0	7	0.1			21	0.0
	15-19	1,004	6.2	947	5.8	734	5.9			2,685	6.0
	20-24	2,004	12.3	1,933	11.9	1,345	10.8			5,282	11.7
	25-29	1,076	6.6	1,114	6.8	825	6.6			3,015	6.7
	30-34	473	2.9	480	2.9	373	3.0			1,326	2.9
	35-39	249	1.5	226	1.4	205	1.7			680	1.5
	40-44	134	0.8	165	1.0	104	0.8			403	0.9
	45-54	134	0.8	146	0.9	130	1.0			410	0.9
	55-64	38	0.2	34	0.2	47	0.4			119	0.3
	65+	7	0.0	10	0.1	8	0.1			25	0.1
	<b>Total</b>		5,125	31.4	5,063	31.1	3,782	30.5			13,970
Female	Unknown	0	0.0	0	0.0	0	0.0			0	0.0
	0-9	0	0.0	1	0.0	1	0.0			2	0.0
	10-14	80	0.5	95	0.6	76	0.6			251	0.6
	15-19	3,646	22.4	3,544	21.8	2,802	22.6			9,992	22.2
	20-24	4,367	26.8	4,301	26.4	3,192	25.7			11,860	26.4
	25-29	1,809	11.1	1,943	11.9	1,486	12.0			5,238	11.6
	30-34	701	4.3	707	4.3	587	4.7			1,995	4.4
	35-39	318	1.9	359	2.2	244	2.0			921	2.0
	40-44	127	0.8	148	0.9	136	1.1			411	0.9
	45-54	97	0.6	88	0.5	68	0.5			253	0.6
	55-64	35	0.2	26	0.2	28	0.2			89	0.2
	65+	5	0.0	0	0.0	8	0.1			13	0.0
	<b>Total</b>		11,185	68.6	11,212	68.9	8,628	69.5			31,025
Total	Unknown	0	0.0	0	0.0	3	0.0			3	0.0
	0-9	0	0.0	1	0.0	2	0.0			3	0.0
	10-14	86	0.5	103	0.6	83	0.7			272	0.6
	15-19	4,650	28.5	4,491	27.6	3,536	28.5			12,677	28.2
	20-24	6,371	39.1	6,234	38.3	4,537	36.6			17,142	38.1
	25-29	2,885	17.7	3,057	18.8	2,311	18.6			8,253	18.3
	30-34	1,174	7.2	1,187	7.3	960	7.7			3,321	7.4
	35-39	567	3.5	585	3.6	449	3.6			1,601	3.6
	40-44	261	1.6	313	1.9	240	1.9			814	1.8
	45-54	231	1.4	234	1.4	198	1.6			663	1.5
	55-64	73	0.4	60	0.4	75	0.6			208	0.5
	65+	12	0.1	10	0.1	16	0.1			38	0.1
	<b>Total</b>		16,310	100.0	16,275	100.0	12,410	100.0			44,995

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	47	0.3	55	0.3	46	0.4			148	0.3
	Asian/Pacific Islander <sup>a</sup>	27	0.2	21	0.1	23	0.2			71	0.2
	Black/African American <sup>a</sup>	1,865	11.4	1,815	11.2	1,394	11.2			5,074	11.3
	Hispanic/Latino	294	1.8	297	1.8	216	1.7			807	1.8
	White/Caucasian <sup>a</sup>	723	4.4	652	4.0	555	4.5			1,930	4.3
	Multiple Race	9	0.1	6	0.0	10	0.1			25	0.1
	Unknown	2,160	13.2	2,217	13.6	1,538	12.4			5,915	13.1
	<b>Total</b>	<b>5,125</b>	<b>31.4</b>	<b>5,063</b>	<b>31.1</b>	<b>3,782</b>	<b>30.5</b>			<b>13,970</b>	<b>31.0</b>
Female	American Indian/Alaska Native <sup>a</sup>	155	1.0	147	0.9	119	1.0			421	0.9
	Asian/Pacific Islander <sup>a</sup>	81	0.5	64	0.4	40	0.3			185	0.4
	Black/African American <sup>a</sup>	3,759	23.0	3,872	23.8	3,059	24.6			10,690	23.8
	Hispanic/Latino	844	5.2	870	5.3	617	5.0			2,331	5.2
	White/Caucasian <sup>a</sup>	2,195	13.5	2,066	12.7	1,679	13.5			5,940	13.2
	Multiple Race	31	0.2	25	0.2	12	0.1			68	0.2
	Unknown	4,120	25.3	4,168	25.6	3,102	25.0			11,390	25.3
	<b>Total</b>	<b>11,185</b>	<b>68.6</b>	<b>11,212</b>	<b>68.9</b>	<b>8,628</b>	<b>69.5</b>			<b>31,025</b>	<b>69.0</b>
Total <sup>c</sup>	American Indian/Alaska Native <sup>a</sup>	202	1.2	202	1.2	165	1.3			569	1.3
	Asian/Pacific Islander <sup>a</sup>	108	0.7	85	0.5	63	0.5			256	0.6
	Black/African American <sup>a</sup>	5,624	34.5	5,687	34.9	4,453	35.9			15,764	35.0
	Hispanic/Latino	1,138	7.0	1,167	7.2	833	6.7			3,138	7.0
	White/Caucasian <sup>a</sup>	2,918	17.9	2,718	16.7	2,234	18.0			7,870	17.5
	Multiple Race	40	0.2	31	0.2	22	0.2			93	0.2
	Unknown	6,280	38.5	6,385	39.2	4,640	37.4			17,305	38.5
	<b>Total</b>	<b>16,310</b>	<b>100.0</b>	<b>16,275</b>	<b>100.0</b>	<b>12,410</b>	<b>100.0</b>			<b>44,995</b>	<b>100.0</b>

<sup>a</sup>Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	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	0.1	5	0.1	2	0.0			10	0.1
	15-19	358	6.6	342	6.0	336	6.3			1,036	6.3
	20-24	792	14.6	838	14.7	703	13.1			2,333	14.2
	25-29	615	11.4	686	12.1	653	12.2			1,954	11.9
	30-34	368	6.8	362	6.4	385	7.2			1,115	6.8
	35-39	200	3.7	275	4.8	259	4.8			734	4.5
	40-44	145	2.7	149	2.6	152	2.8			446	2.7
	45-54	146	2.7	168	3.0	189	3.5			503	3.1
	55-64	68	1.3	67	1.2	101	1.9			236	1.4
	65+	17	0.3	19	0.3	10	0.2			46	0.3
<b>Total</b>		2,712	50.1	2,911	51.2	2,791	51.9			8,414	51.1
Female	Unknown	0	0.0	0	0.0	0	0.0			0	0.0
	0-9	1	0.0	2	0.0	0	0.0			3	0.0
	10-14	17	0.3	21	0.4	14	0.3			52	0.3
	15-19	685	12.6	643	11.3	582	10.8			1,910	11.6
	20-24	904	16.7	870	15.3	845	15.7			2,619	15.9
	25-29	562	10.4	627	11.0	563	10.5			1,752	10.6
	30-34	276	5.1	319	5.6	289	5.4			884	5.4
	35-39	127	2.3	156	2.7	139	2.6			422	2.6
	40-44	62	1.1	65	1.1	68	1.3			195	1.2
	45-54	51	0.9	55	1.0	61	1.1			167	1.0
	55-64	18	0.3	13	0.2	18	0.3			49	0.3
	65+	2	0.0	1	0.0	3	0.1			6	0.0
<b>Total</b>		2,705	49.9	2,772	48.8	2,582	48.1			8,059	48.9
Total	Unknown	0	0.0	0	0.0	1	0.0			1	0.0
	0-9	1	0.0	2	0.0	0	0.0			3	0.0
	10-14	20	0.4	26	0.5	16	0.3			62	0.4
	15-19	1,043	19.3	985	17.3	918	17.1			2,946	17.9
	20-24	1,696	31.3	1,708	30.1	1,548	28.8			4,952	30.1
	25-29	1,177	21.7	1,313	23.1	1,216	22.6			3,706	22.5
	30-34	644	11.9	681	12.0	674	12.5			1,999	12.1
	35-39	327	6.0	431	7.6	398	7.4			1,156	7.0
	40-44	207	3.8	214	3.8	220	4.1			641	3.9
	45-54	197	3.6	223	3.9	250	4.7			670	4.1
	55-64	86	1.6	80	1.4	119	2.2			285	1.7
	65+	19	0.4	20	0.4	13	0.2			52	0.3
<b>Total</b>		5,417	100.0	5,683	100.0	5,373	100.0			16,473	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	31	0.6	24	0.4	35	0.7			90	0.5
	Asian/Pacific Islander <sup>a</sup>	9	0.2	6	0.1	9	0.2			24	0.1
	Black/African American <sup>a</sup>	1,368	25.3	1,479	26.0	1,367	25.4			4,214	25.6
	Hispanic/Latino	100	1.8	105	1.8	90	1.7			295	1.8
	White/Caucasian <sup>a</sup>	332	6.1	351	6.2	372	6.9			1,055	6.4
	Multiple Race	6	0.1	4	0.1	8	0.1			18	0.1
	Unknown	866	16.0	942	16.6	910	16.9			2,718	16.5
	<b>Total</b>	<b>2,712</b>	<b>50.1</b>	<b>2,911</b>	<b>51.2</b>	<b>2,791</b>	<b>51.9</b>			<b>8,414</b>	<b>51.1</b>
Female	American Indian/Alaska Native <sup>a</sup>	44	0.8	39	0.7	48	0.9			131	0.8
	Asian/Pacific Islander <sup>a</sup>	10	0.2	6	0.1	14	0.3			30	0.2
	Black/African American <sup>a</sup>	1,211	22.4	1,306	23.0	1,200	22.3			3,717	22.6
	Hispanic/Latino	79	1.5	81	1.4	74	1.4			234	1.4
	White/Caucasian <sup>a</sup>	495	9.1	488	8.6	477	8.9			1,460	8.9
	Multiple Race	9	0.2	8	0.1	8	0.1			25	0.2
	Unknown	857	15.8	844	14.9	761	14.2			2,462	14.9
	<b>Total</b>	<b>2,705</b>	<b>49.9</b>	<b>2,772</b>	<b>48.8</b>	<b>2,582</b>	<b>48.1</b>			<b>8,059</b>	<b>48.9</b>
Total	American Indian/Alaska Native <sup>a</sup>	75	1.4	63	1.1	83	1.5			221	1.3
	Asian/Pacific Islander <sup>a</sup>	19	0.4	12	0.2	23	0.4			54	0.3
	Black/African American <sup>a</sup>	2,579	47.6	2,785	49.0	2,567	47.8			7,931	48.1
	Hispanic/Latino	179	3.3	186	3.3	164	3.1			529	3.2
	White/Caucasian <sup>a</sup>	827	15.3	839	14.8	849	15.8			2,515	15.3
	Multiple Race	15	0.3	12	0.2	16	0.3			43	0.3
	Unknown	1,723	31.8	1,786	31.4	1,671	31.1			5,180	31.4
	<b>Total</b>	<b>5,417</b>	<b>100.0</b>	<b>5,683</b>	<b>100.0</b>	<b>5,373</b>	<b>100.0</b>			<b>16,473</b>	<b>100.0</b>

<sup>a</sup>Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	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	18	3.7	10	2.2	15	3.8			43	3.2
	20-24	89	18.4	72	15.8	62	15.9			223	16.8
	25-29	89	18.4	95	20.8	78	20.0			262	19.7
	30-34	64	13.3	64	14.0	54	13.8			182	13.7
	35-39	44	9.1	31	6.8	38	9.7			113	8.5
	40-44	27	5.6	28	6.1	20	5.1			75	5.6
	45-54	52	10.8	52	11.4	45	11.5			149	11.2
	55-64	25	5.2	27	5.9	22	5.6			74	5.6
	65+	5	1.0	2	0.4	3	0.8			10	0.8
<b>Total</b>		413	85.5	381	83.4	337	86.4			1,131	85.0
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	1	0.2	0	0.0			1	0.1
	15-19	4	0.8	11	2.4	9	2.3			24	1.8
	20-24	14	2.9	19	4.2	8	2.1			41	3.1
	25-29	20	4.1	17	3.7	14	3.6			51	3.8
	30-34	11	2.3	12	2.6	8	2.1			31	2.3
	35-39	6	1.2	5	1.1	2	0.5			13	1.0
	40-44	9	1.9	4	0.9	6	1.5			19	1.4
	45-54	5	1.0	5	1.1	3	0.8			13	1.0
	55-64	1	0.2	1	0.2	3	0.8			5	0.4
	65+	0	0.0	1	0.2	0	0.0			1	0.1
<b>Total</b>		70	14.5	76	16.6	53	13.6			199	15.0
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	1	0.2	0	0.0			1	0.1
	15-19	22	4.6	21	4.6	24	6.2			67	5.0
	20-24	103	21.3	91	19.9	70	17.9			264	19.8
	25-29	109	22.6	112	24.5	92	23.6			313	23.5
	30-34	75	15.5	76	16.6	62	15.9			213	16.0
	35-39	50	10.4	36	7.9	40	10.3			126	9.5
	40-44	36	7.5	32	7.0	26	6.7			94	7.1
	45-54	57	11.8	57	12.5	48	12.3			162	12.2
	55-64	26	5.4	28	6.1	25	6.4			79	5.9
	65+	5	1.0	3	0.7	3	0.8			11	0.8
<b>Total</b>		483	100.0	457	100.0	390	100.0			1,330	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	2	0.4	2	0.4	3	0.8			7	0.5
	Asian/Pacific Islander <sup>a</sup>	4	0.8	1	0.2	6	1.5			11	0.8
	Black/African American <sup>a</sup>	241	49.9	236	51.6	202	51.8			679	51.1
	Hispanic/Latino	39	8.1	28	6.1	24	6.2			91	6.8
	White/Caucasian <sup>a</sup>	110	22.8	92	20.1	88	22.6			290	21.8
	Multiple Race	7	1.4	9	2.0	8	2.1			24	1.8
	Unknown	10	2.1	13	2.8	6	1.5			29	2.2
	<b>Total</b>	<b>413</b>	<b>85.5</b>	<b>381</b>	<b>83.4</b>	<b>337</b>	<b>86.4</b>			<b>1,131</b>	<b>85.0</b>
Female	American Indian/Alaska Native <sup>a</sup>	1	0.2	0	0.0	0	0.0			1	0.1
	Asian/Pacific Islander <sup>a</sup>	0	0.0	0	0.0	0	0.0			0	0.0
	Black/African American <sup>a</sup>	52	10.8	51	11.2	39	10.0			142	10.7
	Hispanic/Latino	1	0.2	5	1.1	4	1.0			10	0.8
	White/Caucasian <sup>a</sup>	14	2.9	18	3.9	10	2.6			42	3.2
	Multiple Race	2	0.4	1	0.2	n/a	0.0			3	0.2
	Unknown	0	0.0	1	0.2	n/a	0.0			1	0.1
	<b>Total</b>	<b>70</b>	<b>14.5</b>	<b>76</b>	<b>16.6</b>	<b>53</b>	<b>13.6</b>			<b>199</b>	<b>15.0</b>
Total <sup>c</sup>	American Indian/Alaska Native <sup>a</sup>	3	0.6	2	0.4	3	0.8			8	0.6
	Asian/Pacific Islander <sup>a</sup>	4	0.8	1	0.2	6	1.5			11	0.8
	Black/African American <sup>a</sup>	293	60.7	287	62.8	241	61.8			821	61.7
	Hispanic/Latino	40	8.3	33	7.2	28	7.2			101	7.6
	White/Caucasian <sup>a</sup>	124	25.7	110	24.1	98	25.1			332	25.0
	Multiple Race	9	1.9	10	2.2	8	2.1			27	2.0
	Unknown	10	2.1	14	3.1	6	1.5			30	2.3
	<b>Total</b>	<b>483</b>	<b>100.0</b>	<b>457</b>	<b>100.0</b>	<b>390</b>	<b>100.0</b>			<b>1,330</b>	<b>100.0</b>

<sup>a</sup>Non-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 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, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
ALAMANCE	638	685	636	305	201	190	20	13	10	21	8	8
ALEXANDER	70	58	55	11	21	13	1	0	0	0	0	0
ALLEGHANY	12	15	19	1	2	2	0	0	0	0	0	0
ANSON	133	132	133	80	52	56	3	2	2	0	1	0
ASHE	32	33	32	5	3	4	0	0	0	0	0	0
AVERY	23	27	14	4	5	6	0	0	1	0	0	0
BEAUFORT	205	202	194	48	46	53	3	1	0	2	0	2
BERTIE	106	121	97	27	36	29	1	2	0	0	1	0
BLADEN	140	141	100	52	77	59	0	1	1	0	3	1
BRUNSWICK	253	299	297	96	83	110	1	7	2	2	4	3
BUNCOMBE	744	866	809	156	342	325	18	29	12	9	8	8
BURKE	214	251	239	46	120	128	3	3	1	2	5	1
CABARRUS	666	731	805	179	177	234	5	7	9	7	6	6
CALDWELL	156	175	205	30	83	96	3	2	1	1	3	4
CAMDEN	16	16	15	4	2	2	0	0	0	0	0	0
CARTERET	151	158	179	40	29	27	1	0	2	0	1	0
CASWELL	72	95	66	31	29	15	2	1	1	1	0	0
CATAWBA	434	469	447	81	219	195	3	8	15	6	6	5
CHATHAM	120	141	135	28	43	31	4	2	2	0	0	0
CHEROKEE	26	28	40	3	7	15	0	0	0	0	0	0
CHOWAN	72	76	53	18	29	29	0	1	0	0	0	0
CLAY	12	15	14	1	1	2	0	0	0	0	0	0
CLEVELAND	366	390	477	170	251	307	1	4	2	3	2	4
COLUMBUS	248	248	200	80	159	91	1	6	1	2	1	0
CRAVEN	544	598	580	185	129	160	5	3	4	2	3	7
CUMBERLAND	2,530	2,786	2,593	896	1,141	993	40	36	35	24	28	38
CURRITUCK	48	50	43	5	9	12	0	1	0	0	1	1
DARE	49	73	77	9	13	17	0	0	0	1	1	0
DAVIDSON	503	517	477	225	215	205	3	6	3	6	6	5
DAVIE	102	92	37	30	36	13	2	0	2	0	0	1
DUPLIN	155	218	225	56	68	66	1	3	2	2	1	3
DURHAM	1,839	2,047	1,904	683	790	754	51	50	77	42	36	39
EDGECOMBE	381	386	371	146	189	190	9	7	1	6	9	1
FORSYTH	1,925	1,859	1,950	807	681	805	43	40	42	25	18	37
FRANKLIN	197	245	194	50	79	79	1	0	2	0	1	1
GASTON	946	1,043	1,123	351	385	486	21	14	13	11	11	9
GATES	35	36	23	11	9	5	0	0	0	0	0	0
GRAHAM	12	15	11	0	3	4	0	0	0	0	0	0
GRANVILLE	376	363	318	76	100	104	4	2	8	3	3	0
GREENE	118	124	109	35	35	43	1	2	0	1	0	0
GUILFORD	3,455	3,627	3,505	1,388	1,412	1,359	69	94	64	65	52	43
HALIFAX	268	325	301	86	94	115	5	5	2	1	2	4
HARNETT	461	509	531	112	143	182	5	4	2	3	1	7
HAYWOOD	102	93	110	10	31	36	7	7	0	1	1	0
HENDERSON	203	242	219	37	74	78	2	9	2	2	3	3
HERTFORD	116	117	118	31	36	45	1	0	1	0	2	1
HOKE	255	295	213	117	126	80	1	4	2	3	4	3
HYDE	14	19	15	2	4	3	0	0	0	1	1	0
IREDELL	462	597	513	115	278	165	6	8	7	2	2	5
JACKSON	99	152	128	21	61	50	3	2	0	1	0	1
JOHNSTON	548	632	619	156	206	182	9	6	10	7	8	3
JONES	25	47	34	13	17	12	2	1	0	0	0	1

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 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, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
LEE	252	253	196	113	83	54	3	3	0	3	1	1
LENOIR	350	356	373	109	150	176	5	3	2	6	1	4
LINCOLN	166	199	226	45	49	65	8	3	4	1	0	3
MACON	53	71	75	10	10	27	1	2	2	0	0	1
MADISON	43	46	52	4	12	14	1	0	1	1	0	1
MARTIN	104	102	106	24	20	47	1	2	1	2	1	0
MCDOWELL	133	144	87	27	74	47	3	0	2	0	0	2
MECKLENBURG	5,968	6,767	6,445	2,026	2,432	2,296	223	224	177	150	148	126
MITCHELL	26	29	21	5	6	2	0	0	0	0	0	0
MONTGOMERY	95	120	105	31	26	17	2	1	0	0	3	0
MOORE	243	257	276	72	73	61	2	1	2	2	3	0
NASH	478	467	484	146	216	200	16	10	6	8	7	5
NEW HANOVER	855	973	830	381	295	285	5	22	19	8	9	20
NORTHAMPTON	84	91	106	24	47	43	0	2	1	5	0	0
ONSLow	1,278	1,463	1,203	234	279	274	7	12	14	5	7	8
ORANGE	501	597	489	134	183	141	5	7	8	5	3	4
PAMLICO	16	26	26	7	7	3	0	0	0	0	0	0
PASQUOTANK	224	247	188	38	64	78	0	2	2	1	0	1
PENDER	150	158	138	54	35	42	2	3	1	2	1	2
PERQUIMANS	42	62	41	14	10	18	0	0	0	0	0	0
PERSON	160	194	122	47	61	39	4	3	2	1	0	0
PITT	1,400	1,590	1,277	473	503	411	19	14	13	15	9	17
POLK	31	38	28	7	8	7	0	1	2	0	0	0
RANDOLPH	312	341	344	130	119	140	7	5	3	4	1	3
RICHMOND	264	331	267	65	82	110	1	2	1	5	1	1
ROBESON	908	990	789	373	436	355	9	7	11	14	7	11
ROCKINGHAM	300	263	250	151	133	88	0	4	2	5	8	1
ROWAN	521	694	666	133	199	228	9	11	7	3	4	6
RUTHERFORD	167	183	189	48	112	139	4	0	0	0	3	0
SAMPSON	239	214	226	79	75	79	2	2	2	1	1	1
SCOTLAND	225	240	220	57	123	94	4	1	3	5	0	3
STANLY	186	176	191	58	39	47	0	6	0	1	2	0
STOKES	97	81	83	27	16	32	0	0	0	1	1	0
SURRY	144	155	144	32	32	33	1	3	0	2	1	3
SWAIN	86	67	88	17	27	41	1	0	0	0	0	0
TRANSYLVANIA	52	50	60	6	9	13	1	0	0	1	2	0
TYRRELL	10	11	12	0	1	1	0	0	0	0	0	0
UNION	610	629	677	207	155	219	7	13	9	8	9	1
VANCE	386	356	371	156	193	198	7	2	7	3	3	1
WAKE	4,155	4,545	4,344	1,193	1,550	1,539	105	94	113	99	88	65
WARREN	96	82	84	28	24	25	0	1	2	1	0	1
WASHINGTON	69	66	60	14	17	19	1	1	0	1	0	0
WATAUGA	149	193	161	19	18	20	1	2	2	0	1	0
WAYNE	650	614	616	306	273	222	11	9	4	5	1	4
WILKES	116	138	125	16	40	44	1	1	2	0	1	0
WILSON	363	358	445	168	181	158	4	8	7	6	4	3
YADKIN	62	50	61	14	19	14	0	0	1	1	0	0
YANCEY	17	23	26	2	6	6	0	0	0	0	1	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	43,513	47,579	44,995	14,473	16,903	16,473	844	880	776	646	575	554

Data Source: North Carolina Electronic Disease Surveillance System (data as of October 22, 2018).

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

COUNTY	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
ALAMANCE	11	17	13
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	5	2	1
ASHE	2	0	0
AVERY	0	0	0
BEAUFORT	3	4	5
BERTIE	4	2	1
BLADEN	1	4	4
BRUNSWICK	6	5	4
BUNCOMBE	17	15	10
BURKE	3	4	1
CABARRUS	21	12	11
CALDWELL	2	1	3
CAMDEN	1	0	1
CARTERET	1	1	0
CASWELL	2	0	2
CATAWBA	5	6	13
CHATHAM	3	5	3
CHEROKEE	1	0	1
CHOWAN	2	0	0
CLAY	0	0	0
CLEVELAND	8	7	7
COLUMBUS	1	8	2
Craven	9	3	7
CUMBERLAND	52	54	47
CURRITUCK	1	0	0
DARE	2	3	0
DAVIDSON	8	10	15
DAVIE	2	4	1
DUPLIN	2	5	4
DURHAM	66	49	44
EDGECOMBE	8	12	9
FORSYTH	62	53	53
FRANKLIN	4	4	4
GASTON	16	22	24
GATES	1	0	0
GRAHAM	0	0	0
GRANVILLE	4	4	8
GREENE	1	1	0
GUILFORD	105	98	85
HALIFAX	4	9	4
HARNETT	7	12	11
HAYWOOD	2	3	2
HENDERSON	7	7	5
HERTFORD	1	1	2
HOKE	3	3	5
HYDE	1	0	0
IREDELL	3	8	8
JACKSON	0	3	0
JOHNSTON	10	8	14

COUNTY	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
JONES	0	1	1
LEE	4	3	6
LENOIR	4	3	8
LINCOLN	2	3	3
MACON	1	1	1
MADISON	2	0	2
MARTIN	3	1	0
MCDOWELL	1	0	0
MECKLENBURG	202	193	178
MITCHELL	1	0	0
MONTGOMERY	0	2	0
MOORE	6	1	4
NASH	13	7	7
NEW HANOVER	18	26	16
NORTHAMPTON	4	1	0
ONslow	15	16	9
ORANGE	10	5	8
PAMLICO	0	1	0
PASQUOTANK	4	7	7
PENDER	9	3	2
PERQUIMANS	0	1	0
PERSON	3	3	4
PITT	29	26	25
POLK	1	0	0
RANDOLPH	7	3	2
RICHMOND	6	5	6
ROBESON	10	15	13
ROCKINGHAM	7	7	7
ROWAN	15	12	11
RUTHERFORD	2	5	1
SAMPSON	9	11	2
SCOTLAND	3	3	3
STANLY	5	0	1
STOKES	2	1	1
SURRY	2	0	1
SWAIN	0	0	0
TRANSYLVANIA	0	1	1
TYRRELL	2	0	0
UNION	19	13	10
VANCE	6	5	4
WAKE	123	101	83
WARREN	1	0	2
WASHINGTON	1	0	2
WATAUGA	0	2	1
WAYNE	10	12	7
WILKES	3	2	2
WILSON	7	11	11
YADKIN	2	1	1
YANCEY	1	0	0
UNASSIGNED*	20	12	11
TOTAL	1,075	995	898

\* 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 October 1, 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, 2016-2018**

COUNTY	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
ALAMANCE	8	8	6
ALEXANDER	1	1	0
ALLEGHANY	0	0	0
ANSON	1	1	2
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	3	2	0
BERTIE	3	2	3
BLADEN	2	3	2
BRUNSWICK	2	4	1
BUNCOMBE	4	10	5
BURKE	5	1	1
CABARRUS	10	4	1
CALDWELL	5	0	1
CAMDEN	1	0	1
CARTERET	0	1	1
CASWELL	0	2	1
CATAWBA	1	0	3
CHATHAM	2	3	0
CHEROKEE	1	0	0
CHOWAN	1	0	0
CLAY	0	1	0
CLEVELAND	5	5	3
COLUMBUS	1	1	2
Craven	3	0	1
CUMBERLAND	28	15	28
CURRITUCK	0	0	0
DARE	0	1	0
DAVIDSON	7	6	13
DAVIE	1	0	0
DUPLIN	0	5	3
DURHAM	22	28	23
EDGECOMBE	7	8	4
FORSYTH	24	34	36
FRANKLIN	0	1	2
GASTON	10	15	8
GATES	0	0	1
GRAHAM	0	0	0
GRANVILLE	4	4	4
GREENE	0	1	1
GUILFORD	27	24	16
HALIFAX	2	3	0
HARNETT	2	7	4
HAYWOOD	0	2	0
HENDERSON	1	5	0
HERTFORD	1	1	1
HOKE	2	2	2
HYDE	0	0	0
IREDELL	3	7	1
JACKSON	0	1	0
JOHNSTON	7	3	9
JONES	0	1	1
LEE	4	3	0

COUNTY	2016 Jan-Sep	2017 Jan-Sep	2018 Jan-Sep
LENOIR	5	2	5
LINCOLN	1	1	1
MACON	0	0	0
MADISON	0	0	1
MARTIN	2	1	2
MCDOWELL	0	1	0
MECKLENBURG	96	80	39
MITCHELL	1	0	0
MONTGOMERY	1	1	0
MOORE	2	0	1
NASH	9	7	6
NEW HANOVER	5	7	2
NORTHAMPTON	2	2	2
ONSLow	5	5	3
ORANGE	4	2	2
PAMLICO	0	0	0
PASQUOTANK	0	4	3
PENDER	1	0	0
PERQUIMANS	1	0	1
PERSON	1	1	3
PITT	14	18	13
POLK	1	0	1
RANDOLPH	1	2	4
RICHMOND	1	4	3
ROBESON	8	7	9
ROCKINGHAM	1	2	5
ROWAN	4	8	2
RUTHERFORD	2	3	3
SAMPSON	2	3	3
SCOTLAND	4	1	5
STANLY	3	0	2
STOKES	0	1	1
SURRY	0	0	1
SWAIN	0	0	0
TRANSYLVANIA	0	1	0
TYRRELL	1	0	0
UNION	6	6	2
VANCE	2	3	3
WAKE	52	49	44
WARREN	0	2	0
WASHINGTON	0	0	1
WATAUGA	0	1	0
WAYNE	7	3	10
WILKES	1	1	1
WILSON	6	6	4
YADKIN	1	0	0
YANCEY	1	0	0
UNASSIGNED*	4	6	3
<b>TOTAL</b>	<b>469</b>	<b>467</b>	<b>382</b>

\* 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 October 1, 2018).