

# North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2020, No. 4

## HIV/STD Surveillance Unit

Communicable Disease Branch  
Epidemiology Section, Division of Public Health  
North Carolina Department of Health & Human Services

1902 Mail Service Center  
Raleigh, North Carolina 27699-1902  
(919) 733-7301

<https://epi.dph.ncdhhs.gov/cd/stds/figures.html>

### ANNOUNCEMENTS:

**Readers should consider the data in this report to be *preliminary*.** These data represent reports for short time periods and changes noted from quarter to quarter may not be meaningful. Some cases listed in this report are considered presumptive; their status may change as case investigation continues.

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

### About the authors

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

### About the contents of this report

The *North Carolina HIV/STD Surveillance Report: Vol. 2020, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2020. All reports are presented by the **date of diagnosis**. This report is intended as a reference document for local health departments, program managers, health planners, researchers and others who are concerned with the public health implications of these diseases. **The information in this quarterly report is meant to be brief and provide limited data on these diseases throughout the year. More detailed and complete information will continue to be available in annual publications.** This report and our annual publications are available on our website (<https://epi.dph.ncdhhs.gov/cd/stds/figures.html>). The CDC maintains data about these diseases for the United States; national information is available from its website (<http://www.cdc.gov/hiv/library/reports/surveillance/>).



NC DEPARTMENT OF  
HEALTH AND HUMAN SERVICES

State of North Carolina • Roy Cooper, Governor  
Department of Health & Human Services • Mandy Cohen MD, MPH, Secretary  
Division of Public Health • Mark T. Benton, Assistant Secretary

[www.ncdhhs.gov](http://www.ncdhhs.gov) • [www.publichealth.nc.gov](http://www.publichealth.nc.gov)

NC DHHS is an equal opportunity employer and provider.

02/21



North Carolina  
Public Health

## HIV Infection Surveillance Data

**Human immunodeficiency virus (HIV) infection case reports** represents all new diagnoses with HIV in North Carolina regardless of the stage of the disease (including acquired immunodeficiency syndrome [AIDS]). Most persons are reported with only an HIV infection, but some persons are reported with a concurrent diagnosis of AIDS (an AIDS diagnosis within six months of the initial HIV infection diagnosis). In North Carolina, about one-quarter of the new HIV infection reports represent persons who are diagnosed with HIV infection and AIDS at the same time. **AIDS case reports**, by contrast, represent only persons with HIV infection who have progressed to this later, more life threatening, stage of disease. For these reasons, HIV infection reports and AIDS case reports should be considered separately. The two categories should never be combined to estimate an infected population, as the broad group of HIV disease includes AIDS cases, and combining the two categories would therefore double-count the AIDS cases. **HIV infection and AIDS cases are both presented by date of diagnosis in this publication.** This gives a preliminary look at HIV infection surveillance for 2020. 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>.

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2020

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	6	0.0	0	0.0	1	0.0	2	0.0	9	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	6	0.0	5	0.0	12	0.1	12	0.1	35	0.1
	15-19	1,070	6.1	769	5.8	1,086	6.3	782	5.9	3,707	6.0
	20-24	2,216	12.7	1,571	11.8	1,973	11.4	1,487	11.2	7,247	11.8
	25-29	1,218	7.0	889	6.7	1,127	6.5	882	6.7	4,116	6.7
	30-34	579	3.3	453	3.4	625	3.6	468	3.5	2,125	3.5
	35-39	331	1.9	227	1.7	313	1.8	209	1.6	1,080	1.8
	40-44	171	1.0	138	1.0	152	0.9	128	1.0	589	1.0
	45-54	183	1.0	120	0.9	136	0.8	144	1.1	583	1.0
	55-64	63	0.4	35	0.3	60	0.3	55	0.4	213	0.3
	65+	12	0.1	7	0.1	13	0.1	11	0.1	43	0.1
<b>Total</b>		<b>5,855</b>	<b>33.5</b>	<b>4,214</b>	<b>31.7</b>	<b>5,498</b>	<b>31.9</b>	<b>4,180</b>	<b>31.5</b>	<b>19,747</b>	<b>32.2</b>
Female	Unknown	2	0.0	2	0.0	0	0.0	2	0.0	6	0.0
	0-9	3	0.0	2	0.0	5	0.0	3	0.0	13	0.0
	10-14	104	0.6	73	0.5	118	0.7	81	0.6	376	0.6
	15-19	3,644	20.8	2,741	20.6	3,692	21.4	2,665	20.1	12,742	20.8
	20-24	4,366	25.0	3,491	26.3	4,356	25.3	3,466	26.2	15,679	25.6
	25-29	1,992	11.4	1,553	11.7	2,066	12.0	1,591	12.0	7,202	11.8
	30-34	848	4.9	690	5.2	841	4.9	697	5.3	3,076	5.0
	35-39	346	2.0	278	2.1	347	2.0	303	2.3	1,274	2.1
	40-44	166	0.9	132	1.0	173	1.0	151	1.1	622	1.0
	45-54	122	0.7	95	0.7	111	0.6	82	0.6	410	0.7
	55-64	29	0.2	19	0.1	32	0.2	25	0.2	105	0.2
	65+	7	0.0	5	0.0	5	0.0	4	0.0	21	0.0
<b>Total</b>		<b>11,629</b>	<b>66.5</b>	<b>9,081</b>	<b>68.3</b>	<b>11,746</b>	<b>68.1</b>	<b>9,070</b>	<b>68.5</b>	<b>41,526</b>	<b>67.8</b>
Total	Unknown	8	0.0	2	0.0	1	0.0	4	0.0	15	0.0
	0-9	3	0.0	2	0.0	5	0.0	3	0.0	13	0.0
	10-14	110	0.6	78	0.6	130	0.8	93	0.7	411	0.7
	15-19	4,714	27.0	3,510	26.4	4,778	27.7	3,447	26.0	16,449	26.8
	20-24	6,582	37.6	5,062	38.1	6,329	36.7	4,953	37.4	22,926	37.4
	25-29	3,210	18.4	2,442	18.4	3,193	18.5	2,473	18.7	11,318	18.5
	30-34	1,427	8.2	1,143	8.6	1,466	8.5	1,165	8.8	5,201	8.5
	35-39	677	3.9	505	3.8	660	3.8	512	3.9	2,354	3.8
	40-44	337	1.9	270	2.0	325	1.9	279	2.1	1,211	2.0
	45-54	305	1.7	215	1.6	247	1.4	226	1.7	993	1.6
	55-64	92	0.5	54	0.4	92	0.5	80	0.6	318	0.5
	65+	19	0.1	12	0.1	18	0.1	15	0.1	64	0.1
<b>Total</b>		<b>17,484</b>	<b>100.0</b>	<b>13,295</b>	<b>100.0</b>	<b>17,244</b>	<b>100.0</b>	<b>13,250</b>	<b>100.0</b>	<b>61,273</b>	<b>100.0</b>

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2020

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	53	0.3	39	0.3	45	0.3	37	0.3	174	0.3
	Asian/Pacific Islander <sup>a</sup>	16	0.1	25	0.2	19	0.1	10	0.1	70	0.1
	Black/African American <sup>a</sup>	2,000	11.4	1,436	10.8	1,797	10.4	1,307	9.9	6,540	10.7
	Hispanic/Latino	382	2.2	232	1.7	317	1.8	346	2.6	1,277	2.1
	White/Caucasian <sup>a</sup>	747	4.3	512	3.9	638	3.7	497	3.8	2,394	3.9
	Multiple Race	22	0.1	14	0.1	20	0.1	16	0.1	72	0.1
	Unknown	2,635	15.1	1,956	14.7	2,662	15.4	1,967	14.8	9,220	15.0
	<b>Total</b>	<b>5,855</b>	<b>33.5</b>	<b>4,214</b>	<b>31.7</b>	<b>5,498</b>	<b>31.9</b>	<b>4,180</b>	<b>31.5</b>	<b>19,747</b>	<b>32.2</b>
Female	American Indian/Alaska Native <sup>a</sup>	151	0.9	100	0.8	120	0.7	75	0.6	446	0.7
	Asian/Pacific Islander <sup>a</sup>	71	0.4	57	0.4	34	0.2	31	0.2	193	0.3
	Black/African American <sup>a</sup>	3,615	20.7	2,818	21.2	3,485	20.2	2,560	19.3	12,478	20.4
	Hispanic/Latino	889	5.1	681	5.1	807	4.7	907	6.8	3,284	5.4
	White/Caucasian <sup>a</sup>	2,160	12.4	1,599	12.0	1,946	11.3	1,427	10.8	7,132	11.6
	Multiple Race	40	0.2	61	0.5	37	0.2	27	0.2	165	0.3
	Unknown	4,703	26.9	3,765	28.3	5,317	30.8	4,043	30.5	17,828	29.1
	<b>Total</b>	<b>11,629</b>	<b>66.5</b>	<b>9,081</b>	<b>68.3</b>	<b>11,746</b>	<b>68.1</b>	<b>9,070</b>	<b>68.5</b>	<b>41,526</b>	<b>67.8</b>
Total	American Indian/Alaska Native <sup>a</sup>	204	1.2	139	1.0	165	1.0	112	0.8	620	1.0
	Asian/Pacific Islander <sup>a</sup>	87	0.5	82	0.6	53	0.3	41	0.3	263	0.4
	Black/African American <sup>a</sup>	5,615	32.1	4,254	32.0	5,282	30.6	3,867	29.2	19,018	31.0
	Hispanic/Latino	1,271	7.3	913	6.9	1,124	6.5	1,253	9.5	4,561	7.4
	White/Caucasian <sup>a</sup>	2,907	16.6	2,111	15.9	2,584	15.0	1,924	14.5	9,526	15.5
	Multiple Race	62	0.4	75	0.6	57	0.3	43	0.3	237	0.4
	Unknown	7,338	42.0	5,721	43.0	7,979	46.3	6,010	45.4	27,048	44.1
	<b>Total</b>	<b>17,484</b>	<b>100.0</b>	<b>13,295</b>	<b>100.0</b>	<b>17,244</b>	<b>100.0</b>	<b>13,250</b>	<b>100.0</b>	<b>61,273</b>	<b>100.0</b>

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

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2020

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0
	10-14	4	0.1	5	0.1	5	0.1	7	0.1	21	0.1
	15-19	371	5.8	337	5.7	464	6.1	367	6.0	1,539	5.9
	20-24	955	15.0	856	14.4	1,023	13.3	819	13.5	3,653	14.0
	25-29	762	12.0	790	13.3	932	12.2	773	12.7	3,257	12.5
	30-34	475	7.5	463	7.8	648	8.5	495	8.1	2,081	8.0
	35-39	299	4.7	245	4.1	348	4.5	251	4.1	1,143	4.4
	40-44	193	3.0	192	3.2	207	2.7	177	2.9	769	2.9
	45-54	206	3.2	187	3.1	242	3.2	198	3.3	833	3.2
	55-64	97	1.5	82	1.4	123	1.6	103	1.7	405	1.6
	65+	21	0.3	27	0.5	33	0.4	25	0.4	106	0.4
<b>Total</b>		<b>3,383</b>	<b>53.1</b>	<b>3,184</b>	<b>53.6</b>	<b>4,025</b>	<b>52.5</b>	<b>3,216</b>	<b>52.8</b>	<b>13,808</b>	<b>53.0</b>
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	4	0.1	1	0.0	1	0.0	6	0.0
	10-14	20	0.3	16	0.3	28	0.4	23	0.4	87	0.3
	15-19	715	11.2	640	10.8	824	10.7	631	10.4	2,810	10.8
	20-24	974	15.3	870	14.6	1,192	15.5	982	16.1	4,018	15.4
	25-29	607	9.5	591	9.9	726	9.5	576	9.5	2,500	9.6
	30-34	341	5.3	283	4.8	413	5.4	341	5.6	1,378	5.3
	35-39	171	2.7	193	3.2	211	2.8	163	2.7	738	2.8
	40-44	81	1.3	95	1.6	132	1.7	84	1.4	392	1.5
	45-54	61	1.0	50	0.8	89	1.2	55	0.9	255	1.0
	55-64	18	0.3	15	0.3	19	0.2	13	0.2	65	0.2
	65+	3	0.0	4	0.1	7	0.1	1	0.0	15	0.1
<b>Total</b>		<b>2,991</b>	<b>46.9</b>	<b>2,761</b>	<b>46.4</b>	<b>3,642</b>	<b>47.5</b>	<b>2,870</b>	<b>47.2</b>	<b>12,264</b>	<b>47.0</b>
Total	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	4	0.1	1	0.0	2	0.0	7	0.0
	10-14	24	0.4	21	0.4	33	0.4	30	0.5	108	0.4
	15-19	1,086	17.0	977	16.4	1,288	16.8	998	16.4	4,349	16.7
	20-24	1,929	30.3	1,726	29.0	2,215	28.9	1,801	29.6	7,671	29.4
	25-29	1,369	21.5	1,381	23.2	1,658	21.6	1,349	22.2	5,757	22.1
	30-34	816	12.8	746	12.5	1,061	13.8	836	13.7	3,459	13.3
	35-39	470	7.4	438	7.4	559	7.3	414	6.8	1,881	7.2
	40-44	274	4.3	287	4.8	339	4.4	261	4.3	1,161	4.5
	45-54	267	4.2	237	4.0	331	4.3	253	4.2	1,088	4.2
	55-64	115	1.8	97	1.6	142	1.9	116	1.9	470	1.8
	65+	24	0.4	31	0.5	40	0.5	26	0.4	121	0.5
<b>Total</b>		<b>6,374</b>	<b>100.0</b>	<b>5,945</b>	<b>100.0</b>	<b>7,667</b>	<b>100.0</b>	<b>6,086</b>	<b>100.0</b>	<b>26,072</b>	<b>100.0</b>

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2020

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	24	0.4	20	0.3	38	0.5	29	0.5	111	0.4
	Asian/Pacific Islander <sup>a</sup>	6	0.1	8	0.1	6	0.1	9	0.1	29	0.1
	Black/African American <sup>a</sup>	1,672	26.2	1,521	25.6	1,929	25.2	1,436	23.6	6,558	25.2
	Hispanic/Latino	133	2.1	129	2.2	150	2.0	220	3.6	632	2.4
	White/Caucasian <sup>a</sup>	346	5.4	330	5.6	411	5.4	306	5.0	1,393	5.3
	Multiple Race	12	0.2	16	0.3	16	0.2	18	0.3	62	0.2
	Unknown	1,190	18.7	1,160	19.5	1,475	19.2	1,198	19.7	5,023	19.3
	<b>Total</b>	<b>3,383</b>	<b>53.1</b>	<b>3,184</b>	<b>53.6</b>	<b>4,025</b>	<b>52.5</b>	<b>3,216</b>	<b>52.8</b>	<b>13,808</b>	<b>53.0</b>
Female	American Indian/Alaska Native <sup>a</sup>	39	0.6	33	0.6	51	0.7	35	0.6	158	0.6
	Asian/Pacific Islander <sup>a</sup>	6	0.1	8	0.1	6	0.1	11	0.2	31	0.1
	Black/African American <sup>a</sup>	1,207	18.9	1,154	19.4	1,460	19.0	1,132	18.6	4,953	19.0
	Hispanic/Latino	96	1.5	75	1.3	115	1.5	192	3.2	478	1.8
	White/Caucasian <sup>a</sup>	579	9.1	460	7.7	567	7.4	400	6.6	2,006	7.7
	Multiple Race	12	0.2	27	0.5	19	0.2	11	0.2	69	0.3
	Unknown	1,052	16.5	1,004	16.9	1,424	18.6	1,089	17.9	4,569	17.5
	<b>Total</b>	<b>2,991</b>	<b>46.9</b>	<b>2,761</b>	<b>46.4</b>	<b>3,642</b>	<b>47.5</b>	<b>2,870</b>	<b>47.2</b>	<b>12,264</b>	<b>47.0</b>
Total	American Indian/Alaska Native <sup>a</sup>	63	1.0	53	0.9	89	1.2	64	1.1	269	1.0
	Asian/Pacific Islander <sup>a</sup>	12	0.2	16	0.3	12	0.2	20	0.3	60	0.2
	Black/African American <sup>a</sup>	2,879	45.2	2,675	45.0	3,389	44.2	2,568	42.2	11,511	44.2
	Hispanic/Latino	229	3.6	204	3.4	265	3.5	412	6.8	1,110	4.3
	White/Caucasian <sup>a</sup>	925	14.5	790	13.3	978	12.8	706	11.6	3,399	13.0
	Multiple Race	24	0.4	43	0.7	35	0.5	29	0.5	131	0.5
	Unknown	2,242	35.2	2,164	36.4	2,899	37.8	2,287	37.6	9,592	36.8
	<b>Total</b>	<b>6,374</b>	<b>100.0</b>	<b>5,945</b>	<b>100.0</b>	<b>7,667</b>	<b>100.0</b>	<b>6,086</b>	<b>100.0</b>	<b>26,072</b>	<b>100.0</b>

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

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2020

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	14	2.3	11	2.2	16	2.6	19	3.4	60	2.6
	20-24	58	9.6	67	13.2	74	11.9	62	11.1	261	11.4
	25-29	104	17.2	93	18.4	121	19.5	101	18.1	419	18.3
	30-34	95	15.7	65	12.8	104	16.7	93	16.7	357	15.6
	35-39	70	11.6	45	8.9	64	10.3	65	11.7	244	10.7
	40-44	55	9.1	33	6.5	31	5.0	42	7.5	161	7.0
	45-54	65	10.7	53	10.5	67	10.8	48	8.6	233	10.2
	55-64	39	6.4	30	5.9	34	5.5	24	4.3	127	5.5
	65+	7	1.2	11	2.2	9	1.4	8	1.4	35	1.5
<b>Total</b>		507	83.7	408	80.6	520	83.7	462	82.9	1,897	82.8
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	1	0.2	0	0.0	0	0.0	0	0.0	1	0.0
	15-19	8	1.3	9	1.8	7	1.1	3	0.5	27	1.2
	20-24	19	3.1	21	4.2	15	2.4	16	2.9	71	3.1
	25-29	20	3.3	16	3.2	25	4.0	21	3.8	82	3.6
	30-34	14	2.3	17	3.4	17	2.7	15	2.7	63	2.8
	35-39	15	2.5	12	2.4	9	1.4	12	2.2	48	2.1
	40-44	14	2.3	8	1.6	10	1.6	10	1.8	42	1.8
	45-54	5	0.8	7	1.4	13	2.1	11	2.0	36	1.6
	55-64	3	0.5	6	1.2	4	0.6	5	0.9	18	0.8
	65+	0	0.0	2	0.4	1	0.2	2	0.4	5	0.2
<b>Total</b>		99	16.3	98	19.4	101	16.3	95	17.1	393	17.2
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	0.0
	15-19	22	3.6	20	4.0	23	3.7	22	3.9	87	3.8
	20-24	77	12.7	88	17.4	89	14.3	78	14.0	332	14.5
	25-29	124	20.5	109	21.5	146	23.5	122	21.9	501	21.9
	30-34	109	18.0	82	16.2	121	19.5	108	19.4	420	18.3
	35-39	85	14.0	57	11.3	73	11.8	77	13.8	292	12.8
	40-44	69	11.4	41	8.1	41	6.6	52	9.3	203	8.9
	45-54	70	11.6	60	11.9	80	12.9	59	10.6	269	11.7
	55-64	42	6.9	36	7.1	38	6.1	29	5.2	145	6.3
	65+	7	1.2	13	2.6	10	1.6	10	1.8	40	1.7
<b>Total</b>		606	100.0	506	100.0	621	100.0	557	100.0	2,290	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2020

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2020 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	1	0.2	1	0.2	4	0.6	2	0.4	8	0.3
	Asian/Pacific Islander <sup>a</sup>	2	0.3	1	0.2	4	0.6	2	0.4	9	0.4
	Black/African American <sup>a</sup>	293	48.3	235	46.4	309	49.8	282	50.6	1,119	48.9
	Hispanic/Latino	39	6.4	34	6.7	47	7.6	36	6.5	156	6.8
	White/Caucasian <sup>a</sup>	136	22.4	102	20.2	122	19.6	116	20.8	476	20.8
	Multiple Race	12	2.0	14	2.8	10	1.6	14	2.5	50	2.2
	Unknown	24	4.0	21	4.2	24	3.9	10	1.8	79	3.4
	<b>Total</b>	<b>507</b>	<b>83.7</b>	<b>408</b>	<b>80.6</b>	<b>520</b>	<b>83.7</b>	<b>462</b>	<b>82.9</b>	<b>1,897</b>	<b>82.8</b>
Female	American Indian/Alaska Native <sup>a</sup>	0	0.0	0	0.0	2	0.3	1	0.2	3	0.1
	Asian/Pacific Islander <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Black/African American <sup>a</sup>	62	10.2	44	8.7	54	8.7	42	7.5	202	8.8
	Hispanic/Latino	8	1.3	9	1.8	5	0.8	5	0.9	27	1.2
	White/Caucasian <sup>a</sup>	24	4.0	37	7.3	32	5.2	37	6.6	130	5.7
	Multiple Race	3	0.5	3	0.6	4	0.6	4	0.7	14	0.6
	Unknown	2	0.3	5	1.0	4	0.6	6	1.1	17	0.7
	<b>Total</b>	<b>99</b>	<b>16.3</b>	<b>98</b>	<b>19.4</b>	<b>101</b>	<b>16.3</b>	<b>95</b>	<b>17.1</b>	<b>393</b>	<b>17.2</b>
Total <sup>c</sup>	American Indian/Alaska Native <sup>a</sup>	1	0.2	1	0.2	6	1.0	3	0.5	11	0.5
	Asian/Pacific Islander <sup>a</sup>	2	0.3	1	0.2	4	0.6	2	0.4	9	0.4
	Black/African American <sup>a</sup>	355	58.6	279	55.1	363	58.5	324	58.2	1,321	57.7
	Hispanic/Latino	47	7.8	43	8.5	52	8.4	41	7.4	183	8.0
	White/Caucasian <sup>a</sup>	160	26.4	139	27.5	154	24.8	153	27.5	606	26.5
	Multiple Race	15	2.5	17	3.4	14	2.3	18	3.2	64	2.8
	Unknown	26	4.3	26	5.1	28	4.5	16	2.9	96	4.2
	<b>Total</b>	<b>606</b>	<b>100.0</b>	<b>506</b>	<b>100.0</b>	<b>621</b>	<b>100.0</b>	<b>557</b>	<b>100.0</b>	<b>2,290</b>	<b>100.0</b>

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

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).



North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

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, 2018-2020

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
ALAMANCE	936	1,058	865	262	258	341	14	16	26	13	23	20
ALEXANDER	75	81	102	21	43	44	0	0	1	0	0	1
ALLEGHANY	38	23	18	6	3	4	0	0	0	0	0	0
ANSON	181	248	203	69	73	102	3	2	0	0	2	0
ASHE	40	30	55	6	6	19	0	0	0	0	1	0
AVERY	30	34	20	7	5	5	1	0	2	0	0	1
BEAUFORT	290	307	299	75	144	150	1	3	2	2	2	0
BERTIE	164	128	116	51	63	43	1	0	3	2	5	2
BLADEN	144	174	186	75	112	109	2	2	1	1	1	1
BRUNSWICK	443	472	381	170	165	116	3	6	2	4	7	5
BUNCOMBE	1,139	1,251	1,097	402	473	568	13	28	31	13	12	17
BURKE	356	360	307	188	177	131	1	3	9	1	2	2
CABARRUS	1,135	1,225	1,176	326	326	391	15	16	16	10	11	14
CALDWELL	289	332	319	149	214	144	2	3	3	4	0	4
CAMDEN	38	23	17	9	7	3	0	0	0	0	0	0
CARTERET	242	248	194	39	43	45	2	2	3	0	2	1
CASWELL	98	90	90	27	18	28	1	3	1	1	1	3
CATAWBA	656	689	697	267	301	219	21	13	21	7	5	11
CHATHAM	212	226	177	40	40	44	2	1	2	0	0	4
CHEROKEE	52	48	33	19	31	15	0	1	0	0	0	0
CHOWAN	95	91	80	47	70	26	1	3	0	0	3	0
CLAY	22	27	15	2	11	10	0	0	1	0	1	0
CLEVELAND	665	644	647	414	312	326	3	7	3	5	4	5
COLUMBUS	298	320	290	132	141	111	1	5	1	1	7	2
CRAVEN	820	790	616	229	182	199	7	7	3	8	8	3
CUMBERLAND	4,065	4,498	3,980	1,488	1,766	1,668	63	56	51	53	56	66
CURRITUCK	77	50	44	21	17	7	0	1	1	1	0	0
DARE	112	75	61	20	19	24	0	2	0	0	0	1
DAVIDSON	692	664	707	293	417	406	3	8	14	5	10	5
DAVIE	131	147	89	39	44	16	2	0	0	1	5	0
DUPLIN	323	319	339	95	102	99	4	2	3	3	1	3
DURHAM	2,865	2,994	2,369	1,107	1,139	1,202	110	100	108	64	71	64
EDGECOMBE	522	638	590	278	311	408	3	3	4	3	2	7
FORSYTH	2,849	3,230	2,815	1,170	1,570	1,423	54	60	38	46	40	24
FRANKLIN	348	341	275	155	164	134	4	6	4	1	4	4
GASTON	1,577	1,676	1,516	657	611	707	21	25	28	19	15	23
GATES	39	52	56	14	14	15	0	2	1	1	0	1
GRAHAM	17	18	27	5	3	0	0	0	0	0	0	0
GRANVILLE	459	420	294	137	170	147	13	9	7	3	5	6
GREENE	169	178	176	53	58	68	0	1	1	0	3	0
GUILFORD	5,162	5,371	4,404	1,969	2,296	2,066	87	81	94	62	101	73
HALIFAX	492	466	470	180	219	282	2	3	10	6	6	9
HARNETT	761	783	698	244	286	274	3	7	2	9	6	5
HAYWOOD	169	179	145	51	75	74	2	4	4	1	1	1
HENDERSON	337	326	291	106	143	138	2	1	4	3	0	4
HERTFORD	194	176	175	67	66	44	1	1	0	2	3	3
HOKE	400	421	282	151	182	91	2	3	2	6	7	3
HYDE	18	8	12	3	4	4	0	0	0	0	1	0
IREDELL	729	774	706	222	255	344	9	9	7	7	9	12
JACKSON	205	277	178	65	50	51	1	2	1	1	1	0
JOHNSTON	883	981	869	245	330	318	14	12	16	4	12	8
JONES	49	47	40	20	19	10	0	0	0	1	0	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

**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, 2018-2020**

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
LEE	286	342	310	79	86	112	1	4	9	2	1	7
LENOIR	541	581	538	235	222	269	6	4	6	4	5	6
LINCOLN	324	299	321	98	99	108	4	2	3	4	2	4
MACON	101	78	70	32	26	29	2	0	1	1	2	0
MADISON	71	71	47	16	18	21	1	1	1	1	0	2
MARTIN	170	191	171	62	53	77	2	4	4	0	4	6
MCDOWELL	146	167	140	70	82	72	4	0	8	2	1	3
MECKLENBURG	9,208	10,046	9,289	3,192	3,431	4,236	251	245	273	175	212	286
MITCHELL	36	38	32	2	5	7	0	0	0	0	0	0
MONTGOMERY	141	127	113	30	41	50	0	0	1	2	0	1
MOORE	391	427	329	81	138	107	2	2	5	0	2	4
NASH	680	773	686	282	434	468	8	13	12	7	11	11
NEW HANOVER	1,216	1,301	943	387	435	273	25	24	18	25	20	16
NORTHAMPTON	176	178	113	65	74	28	1	2	0	0	0	0
ONSLow	2,093	2,390	2,028	518	525	443	16	15	21	11	12	15
ORANGE	692	751	536	189	177	155	10	9	17	7	11	9
PAMLICO	33	47	33	6	10	14	0	1	1	0	0	0
PASQUOTANK	323	303	286	128	138	105	3	0	1	0	2	3
PENDER	205	207	196	58	53	56	1	2	1	3	1	2
PERQUIMANS	60	57	50	23	35	19	0	0	0	0	0	0
PERSON	177	207	240	49	52	68	4	7	5	2	1	3
PITT	2,050	2,229	1,835	645	856	810	26	17	22	21	18	10
POLK	37	35	34	9	20	13	2	1	4	0	1	0
RANDOLPH	509	565	561	177	162	218	3	3	2	4	1	5
RICHMOND	407	445	366	174	246	197	1	5	2	1	0	0
ROBESON	1,157	1,319	1,225	507	710	679	17	13	7	16	12	5
ROCKINGHAM	419	460	382	144	194	177	3	2	7	2	2	5
ROWAN	951	900	813	346	385	330	9	12	9	7	14	8
RUTHERFORD	284	291	275	179	167	128	0	4	2	0	0	2
SAMPSON	323	405	323	107	119	147	3	3	3	3	2	7
SCOTLAND	314	346	297	155	173	147	4	3	2	3	2	5
STANLY	268	287	251	70	75	126	0	2	2	0	1	4
STOKES	115	116	125	40	43	42	0	1	3	1	0	2
SURRY	207	197	161	43	63	69	1	1	2	4	0	2
SWAIN	118	125	53	50	37	23	0	0	0	0	0	0
TRANSYLVANIA	77	93	74	24	46	33	0	2	3	0	1	1
TYRRELL	18	15	12	1	3	4	0	0	0	0	0	0
UNION	988	1,107	925	286	296	285	11	13	15	4	7	13
VANCE	491	507	452	265	293	212	7	9	17	2	4	5
WAKE	6,501	6,595	4,927	2,146	2,214	1,604	150	160	176	101	150	148
WARREN	123	128	85	38	57	48	2	3	3	1	3	0
WASHINGTON	90	88	76	26	32	23	0	0	0	0	0	1
WATAUGA	274	279	157	35	25	15	2	0	3	0	2	2
WAYNE	918	961	734	314	309	250	5	13	25	9	6	15
WILKES	184	188	186	52	43	50	2	0	0	0	0	2
WILSON	666	897	745	240	364	483	12	10	16	8	11	8
YADKIN	86	80	95	19	19	21	1	1	1	0	0	0
YANCEY	34	31	25	8	10	8	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	66,781	71,298	61,273	23,589	26,643	26,072	1,096	1,132	1,244	807	980	1,046

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

**Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2018-2020**

COUNTY	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
ALAMANCE	20	23	15
ALEXANDER	0	0	1
ALLEGHANY	0	0	0
ANSON	2	2	1
ASHE	0	0	0
AVERY	0	0	2
BEAUFORT	6	6	7
BERTIE	2	3	2
BLADEN	4	3	2
BRUNSWICK	7	5	4
BUNCOMBE	11	14	13
BURKE	4	4	4
CABARRUS	13	20	12
CALDWELL	4	4	2
CAMDEN	1	0	0
CARTERET	3	0	6
CASWELL	3	4	2
CATAWBA	16	13	8
CHATHAM	3	3	2
CHEROKEE	3	5	1
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	8	10	7
COLUMBUS	3	6	4
Craven	10	7	3
CUMBERLAND	61	70	58
CURRITUCK	0	1	1
DARE	2	0	0
DAVIDSON	17	12	16
DAVIE	2	1	1
DUPLIN	5	4	3
DURHAM	61	69	49
EDGECOMBE	13	8	7
FORSYTH	64	82	42
FRANKLIN	4	2	3
GASTON	28	32	27
GATES	0	0	1
GRAHAM	0	0	0
GRANVILLE	7	8	4
GREENE	0	1	2
GUILFORD	110	123	93
HALIFAX	4	5	9
HARNETT	13	20	7
HAYWOOD	5	2	2
HENDERSON	8	5	2
HERTFORD	5	1	1
HOKE	8	5	7
HYDE	0	0	0
IREDELL	10	17	12
JACKSON	0	2	2
JOHNSTON	15	21	12

COUNTY	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
JONES	1	0	0
LEE	7	8	5
LENOIR	10	8	4
LINCOLN	7	2	3
MACON	0	2	5
MADISON	2	0	0
MARTIN	1	4	5
MCDOWELL	0	2	0
MECKLENBURG	248	270	212
MITCHELL	0	0	0
MONTGOMERY	0	1	5
MOORE	5	2	8
NASH	10	15	11
NEW HANOVER	23	28	23
NORTHAMPTON	0	4	0
ONSLow	10	28	23
ORANGE	11	10	10
PAMLICO	0	1	0
PASQUOTANK	10	7	5
PENDER	4	2	5
PERQUIMANS	1	0	0
PERSON	5	1	3
PITT	33	48	21
POLK	0	0	2
RANDOLPH	4	14	6
RICHMOND	7	5	4
ROBESON	17	26	18
ROCKINGHAM	7	10	3
ROWAN	12	13	10
RUTHERFORD	1	0	1
SAMPSON	3	7	6
SCOTLAND	3	10	9
STANLY	2	2	1
STOKES	2	2	3
SURRY	2	7	5
SWAIN	0	0	0
TRANSYLVANIA	1	0	2
TYRRELL	0	0	0
UNION	18	15	11
VANCE	8	7	5
WAKE	113	133	132
WARREN	3	1	5
WASHINGTON	3	3	3
WATAUGA	1	3	2
WAYNE	13	16	11
WILKES	3	3	4
WILSON	14	14	17
YADKIN	2	1	3
YANCEY	0	0	0
UNASSIGNED*	13	21	15
<b>TOTAL</b>	<b>1,205</b>	<b>1,379</b>	<b>1,085</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 February 1, 2021).

North Carolina HIV/STD Surveillance Report Vol. 2020, No.4

**Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2018-2020**

COUNTY	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
ALAMANCE	7	7	4
ALEXANDER	0	0	1
ALLEGHANY	0	0	0
ANSON	2	1	0
ASHE	0	0	0
AVERY	1	0	0
BEAUFORT	1	1	2
BERTIE	4	5	1
BLADEN	2	4	2
BRUNSWICK	2	2	1
BUNCOMBE	6	6	8
BURKE	1	3	1
CABARRUS	2	3	5
CALDWELL	2	3	1
CAMDEN	1	0	0
CARTERET	1	0	3
CASWELL	2	2	0
CATAWBA	6	5	6
CHATHAM	0	1	1
CHEROKEE	0	0	0
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	4	2	2
COLUMBUS	2	5	3
Craven	4	3	5
CUMBERLAND	37	41	42
CURRITUCK	0	1	2
DARE	0	0	1
DAVIDSON	15	5	12
DAVIE	0	2	0
DUPLIN	3	2	2
DURHAM	30	24	29
EDGECOMBE	4	9	9
FORSYTH	46	39	23
FRANKLIN	3	2	1
GASTON	13	10	6
GATES	1	0	0
GRAHAM	0	0	0
GRANVILLE	5	2	2
GREENE	2	2	0
GUILFORD	24	29	34
HALIFAX	0	2	2
HARNETT	5	6	3
HAYWOOD	1	0	2
HENDERSON	3	3	2
HERTFORD	1	3	3
HOKE	2	6	4
HYDE	0	0	0
IREDELL	3	13	3
JACKSON	0	3	1
JOHNSTON	9	4	7
JONES	1	0	0
LEE	0	4	4

COUNTY	2018 Jan-Dec	2019 Jan-Dec	2020 Jan-Dec
LENOIR	6	3	5
LINCOLN	2	3	1
MACON	0	2	2
MADISON	1	0	0
MARTIN	2	2	1
MCDOWELL	0	0	0
MECKLENBURG	55	75	85
MITCHELL	0	0	1
MONTGOMERY	0	1	1
MOORE	1	7	2
NASH	7	6	7
NEW HANOVER	5	5	3
NORTHAMPTON	2	1	0
ONSLow	6	7	6
ORANGE	3	4	5
PAMLICO	0	0	0
PASQUOTANK	5	3	2
PENDER	0	0	2
PERQUIMANS	1	1	0
PERSON	3	0	2
PITT	22	18	11
POLK	0	0	0
RANDOLPH	5	4	4
RICHMOND	4	2	5
ROBESON	11	15	12
ROCKINGHAM	7	2	2
ROWAN	3	7	3
RUTHERFORD	4	0	2
SAMPSON	5	2	7
SCOTLAND	6	3	2
STANLY	3	0	2
STOKES	1	2	1
SURRY	2	2	4
SWAIN	0	0	0
TRANSYLVANIA	0	1	1
TYRRELL	0	0	0
UNION	2	4	5
VANCE	4	3	3
WAKE	59	45	57
WARREN	0	2	1
WASHINGTON	1	2	4
WATAUGA	0	1	0
WAYNE	10	4	5
WILKES	2	0	2
WILSON	4	12	8
YADKIN	0	1	2
YANCEY	0	0	0
UNASSIGNED*	3	10	10
<b>TOTAL</b>	<b>515</b>	<b>527</b>	<b>518</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 February 1, 2021).