

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2022, 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. 2022, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2022. 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 (<https://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>).



NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES

State of North Carolina • Roy Cooper, Governor
Department of Health & Human Services • Kody Kinsley, Secretary
Division of Public Health • Mark T. Benton, Assistant Secretary

www.ncdhhs.gov • www.publichealth.nc.gov

NC DHHS is an equal opportunity employer and provider.

02/23



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 2022. 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. 2022, No.4

Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2022

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	2	0.0	1	0.0	1	0.0	2	0.0	6	0.0
	0-9	1	0.0	1	0.0	2	0.0	2	0.0	6	0.0
	10-14	11	0.1	7	0.0	14	0.1	3	0.0	35	0.1
	15-19	930	5.8	935	5.9	1,041	6.7	889	6.3	3,795	6.2
	20-24	2,005	12.6	1,975	12.5	1,787	11.6	1,713	12.2	7,480	12.2
	25-29	1,046	6.6	1,090	6.9	1,032	6.7	877	6.2	4,045	6.6
	30-34	633	4.0	626	4.0	649	4.2	585	4.2	2,493	4.1
	35-39	298	1.9	303	1.9	345	2.2	295	2.1	1,241	2.0
	40-44	168	1.1	191	1.2	182	1.2	169	1.2	710	1.2
	45-54	157	1.0	128	0.8	191	1.2	132	0.9	608	1.0
	55-64	74	0.5	70	0.4	72	0.5	61	0.4	277	0.5
	65+	16	0.1	20	0.1	16	0.1	23	0.2	75	0.1
Total	5,341	33.5	5,347	33.9	5,332	34.6	4,751	33.8	20,771	33.9	
Female	Unknown	1	0.0	1	0.0	1	0.0	2	0.0	5	0.0
	0-9	0	0.0	4	0.0	6	0.0	3	0.0	13	0.0
	10-14	91	0.6	87	0.6	99	0.6	93	0.7	370	0.6
	15-19	3,021	19.0	2,916	18.5	2,940	19.1	2,709	19.3	11,586	18.9
	20-24	4,105	25.8	4,004	25.4	3,811	24.7	3,481	24.8	15,401	25.2
	25-29	1,828	11.5	1,838	11.6	1,685	10.9	1,568	11.2	6,919	11.3
	30-34	846	5.3	884	5.6	924	6.0	782	5.6	3,436	5.6
	35-39	366	2.3	363	2.3	333	2.2	341	2.4	1,403	2.3
	40-44	178	1.1	172	1.1	142	0.9	140	1.0	632	1.0
	45-54	120	0.8	120	0.8	113	0.7	151	1.1	504	0.8
	55-64	36	0.2	35	0.2	31	0.2	29	0.2	131	0.2
	65+	8	0.1	9	0.1	6	0.0	2	0.0	25	0.0
Total	10,600	66.5	10,433	66.1	10,091	65.4	9,301	66.2	40,425	66.1	
Total ^a	Unknown	3	0.0	3	0.0	2	0.0	4	0.0	12	0.0
	0-9	1	0.0	5	0.0	8	0.1	5	0.0	19	0.0
	10-14	102	0.6	94	0.6	113	0.7	96	0.7	405	0.7
	15-19	3,951	24.8	3,852	24.4	3,981	25.8	3,598	25.6	15,382	25.1
	20-24	6,110	38.3	5,979	37.9	5,598	36.3	5,194	37.0	22,881	37.4
	25-29	2,874	18.0	2,928	18.6	2,717	17.6	2,445	17.4	10,964	17.9
	30-34	1,479	9.3	1,510	9.6	1,573	10.2	1,367	9.7	5,929	9.7
	35-39	664	4.2	666	4.2	678	4.4	636	4.5	2,644	4.3
	40-44	346	2.2	363	2.3	324	2.1	309	2.2	1,342	2.2
	45-54	277	1.7	248	1.6	304	2.0	283	2.0	1,112	1.8
	55-64	110	0.7	105	0.7	103	0.7	90	0.6	408	0.7
	65+	24	0.2	29	0.2	22	0.1	25	0.2	100	0.2
Total	15,941	100.0	15,782	100.0	15,423	100.0	14,052	100.0	61,198	100.0	

^aTotal includes 2 cases with unreported gender (2 cases in Quarter 2).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2022

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	33	0.2	59	0.4	73	0.5	65	0.5	230	0.4
	Asian/Pacific Islander ^a	36	0.2	33	0.2	26	0.2	35	0.2	130	0.2
	Black/African American ^a	1,867	11.7	2,129	13.5	2,082	13.5	1,862	13.3	7,940	13.0
	Hispanic/Latino	477	3.0	501	3.2	527	3.4	409	2.9	1,914	3.1
	White/Caucasian ^a	668	4.2	671	4.3	738	4.8	622	4.4	2,699	4.4
	Multiple Race	29	0.2	31	0.2	18	0.1	36	0.3	114	0.2
	Unknown	2,231	14.0	1,923	12.2	1,868	12.1	1,722	12.3	7,744	12.7
	Total	5,341	33.5	5,347	33.9	5,332	34.6	4,751	33.8	20,771	33.9
Female	American Indian/Alaska Native ^a	136	0.9	151	1.0	194	1.3	175	1.2	656	1.1
	Asian/Pacific Islander ^a	66	0.4	56	0.4	63	0.4	53	0.4	238	0.4
	Black/African American ^a	3,214	20.2	3,520	22.3	3,525	22.9	3,299	23.5	13,558	22.2
	Hispanic/Latino	1,187	7.4	1,172	7.4	1,188	7.7	1,103	7.8	4,650	7.6
	White/Caucasian ^a	1,684	10.6	1,775	11.2	1,835	11.9	1,487	10.6	6,781	11.1
	Multiple Race	59	0.4	67	0.4	70	0.5	49	0.3	245	0.4
	Unknown	4,254	26.7	3,692	23.4	3,216	20.9	3,135	22.3	14,297	23.4
	Total	10,600	66.5	10,433	66.1	10,091	65.4	9,301	66.2	40,425	66.1
Total ^b	American Indian/Alaska Native ^a	169	1.1	210	1.3	267	1.7	240	1.7	886	1.4
	Asian/Pacific Islander ^a	102	0.6	89	0.6	89	0.6	88	0.6	368	0.6
	Black/African American ^a	5,081	31.9	5,650	35.8	5,607	36.4	5,161	36.7	21,499	35.1
	Hispanic/Latino	1,664	10.4	1,674	10.6	1,715	11.1	1,512	10.8	6,565	10.7
	White/Caucasian ^a	2,352	14.8	2,446	15.5	2,573	16.7	2,109	15.0	9,480	15.5
	Multiple Race	88	0.6	98	0.6	88	0.6	85	0.6	359	0.6
	Unknown	6,485	40.7	5,615	35.6	5,084	33.0	4,857	34.6	22,041	36.0
	Total	15,941	100.0	15,782	100.0	15,423	100.0	14,052	100.0	61,198	100.0

^aNon-Hispanic/Latino.

^bTotal includes 2 cases with unreported gender (2 cases in Quarter 2).

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2022

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 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	1	0.0	0	0.0	0	0.0	1	0.0	2	0.0
	10-14	5	0.1	2	0.0	5	0.1	0	0.0	12	0.0
	15-19	418	6.3	487	7.5	493	7.6	302	6.3	1,700	7.0
	20-24	993	15.0	921	14.3	877	13.5	700	14.6	3,491	14.3
	25-29	754	11.4	702	10.9	760	11.7	534	11.1	2,750	11.3
	30-34	590	8.9	571	8.8	569	8.8	421	8.8	2,151	8.8
	35-39	290	4.4	303	4.7	335	5.2	237	4.9	1,165	4.8
	40-44	209	3.2	196	3.0	181	2.8	144	3.0	730	3.0
	45-54	187	2.8	191	3.0	220	3.4	163	3.4	761	3.1
	55-64	96	1.5	91	1.4	118	1.8	88	1.8	393	1.6
	65+	27	0.4	27	0.4	30	0.5	21	0.4	105	0.4
Total		3,570	54.0	3,491	54.1	3,588	55.2	2,611	54.5	13,260	54.4
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	2	0.0	1	0.0	0	0.0	3	0.0
	10-14	28	0.4	21	0.3	34	0.5	17	0.4	100	0.4
	15-19	687	10.4	659	10.2	682	10.5	531	11.1	2,559	10.5
	20-24	1,005	15.2	1,035	16.0	985	15.2	721	15.0	3,746	15.4
	25-29	614	9.3	592	9.2	492	7.6	412	8.6	2,110	8.7
	30-34	319	4.8	319	4.9	341	5.2	227	4.7	1,206	5.0
	35-39	198	3.0	174	2.7	175	2.7	132	2.8	679	2.8
	40-44	100	1.5	81	1.3	102	1.6	69	1.4	352	1.4
	45-54	74	1.1	58	0.9	75	1.2	54	1.1	261	1.1
	55-64	15	0.2	17	0.3	18	0.3	12	0.3	62	0.3
	65+	4	0.1	3	0.0	7	0.1	5	0.1	19	0.1
Total		3,044	46.0	2,961	45.9	2,912	44.8	2,180	45.5	11,097	45.6
Total	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	1	0.0	2	0.0	1	0.0	1	0.0	5	0.0
	10-14	33	0.5	23	0.4	39	0.6	17	0.4	112	0.5
	15-19	1,105	16.7	1,146	17.8	1,175	18.1	833	17.4	4,259	17.5
	20-24	1,998	30.2	1,956	30.3	1,862	28.6	1,421	29.7	7,237	29.7
	25-29	1,368	20.7	1,294	20.1	1,252	19.3	946	19.7	4,860	20.0
	30-34	909	13.7	890	13.8	910	14.0	648	13.5	3,357	13.8
	35-39	488	7.4	477	7.4	510	7.8	369	7.7	1,844	7.6
	40-44	309	4.7	277	4.3	283	4.4	213	4.4	1,082	4.4
	45-54	261	3.9	249	3.9	295	4.5	217	4.5	1,022	4.2
	55-64	111	1.7	108	1.7	136	2.1	100	2.1	455	1.9
	65+	31	0.5	30	0.5	37	0.6	26	0.5	124	0.5
Total		6,614	100.0	6,452	100.0	6,500	100.0	4,791	100.0	24,357	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2022

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	29	0.4	42	0.7	55	0.8	46	1.0	172	0.7
	Asian/Pacific Islander ^a	13	0.2	20	0.3	20	0.3	13	0.3	66	0.3
	Black/African American ^a	1,753	26.5	1,776	27.5	1,810	27.8	1,274	26.6	6,613	27.2
	Hispanic/Latino	232	3.5	221	3.4	232	3.6	160	3.3	845	3.5
	White/Caucasian ^a	405	6.1	402	6.2	479	7.4	325	6.8	1,611	6.6
	Multiple Race	29	0.4	26	0.4	23	0.4	26	0.5	104	0.4
	Unknown	1,109	16.8	1,004	15.6	969	14.9	767	16.0	3,849	15.8
	Total	3,570	54.0	3,491	54.1	3,588	55.2	2,611	54.5	13,260	54.4
Female	American Indian/Alaska Native ^a	55	0.8	51	0.8	64	1.0	62	1.3	232	1.0
	Asian/Pacific Islander ^a	10	0.2	9	0.1	11	0.2	8	0.2	38	0.2
	Black/African American ^a	1,300	19.7	1,353	21.0	1,375	21.2	1,002	20.9	5,030	20.7
	Hispanic/Latino	153	2.3	146	2.3	127	2.0	109	2.3	535	2.2
	White/Caucasian ^a	466	7.0	491	7.6	466	7.2	325	6.8	1,748	7.2
	Multiple Race	28	0.4	28	0.4	21	0.3	18	0.4	95	0.4
	Unknown	1,032	15.6	883	13.7	848	13.0	656	13.7	3,419	14.0
	Total	3,044	46.0	2,961	45.9	2,912	44.8	2,180	45.5	11,097	45.6
Total	American Indian/Alaska Native ^a	84	1.3	93	1.4	119	1.8	108	2.3	404	1.7
	Asian/Pacific Islander ^a	23	0.3	29	0.4	31	0.5	21	0.4	104	0.4
	Black/African American ^a	3,053	46.2	3,129	48.5	3,185	49.0	2,276	47.5	11,643	47.8
	Hispanic/Latino	385	5.8	367	5.7	359	5.5	269	5.6	1,380	5.7
	White/Caucasian ^a	871	13.2	893	13.8	945	14.5	650	13.6	3,359	13.8
	Multiple Race	57	0.9	54	0.8	44	0.7	44	0.9	199	0.8
	Unknown	2,141	32.4	1,887	29.2	1,817	28.0	1,423	29.7	7,268	29.8
	Total	6,614	100.0	6,452	100.0	6,500	100.0	4,791	100.0	24,357	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2022

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 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	22	2.2	20	2.0	24	2.2	17	2.3	83	2.1
	20-24	130	12.8	112	11.2	124	11.2	78	10.3	444	11.5
	25-29	177	17.5	128	12.8	144	13.0	93	12.3	542	14.0
	30-34	145	14.3	173	17.3	189	17.1	122	16.2	629	16.2
	35-39	96	9.5	111	11.1	113	10.2	77	10.2	397	10.2
	40-44	59	5.8	74	7.4	76	6.9	49	6.5	258	6.7
	45-54	102	10.1	83	8.3	118	10.7	62	8.2	365	9.4
	55-64	56	5.5	70	7.0	75	6.8	46	6.1	247	6.4
	65+	16	1.6	15	1.5	21	1.9	21	2.8	73	1.9
Total		803	79.3	786	78.5	884	79.9	565	74.9	3,038	78.4
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	0.1	1	0.1	1	0.1	0	0.0	3	0.1
	15-19	15	1.5	14	1.4	13	1.2	9	1.2	51	1.3
	20-24	40	3.9	37	3.7	41	3.7	33	4.4	151	3.9
	25-29	38	3.8	48	4.8	41	3.7	32	4.2	159	4.1
	30-34	42	4.1	34	3.4	53	4.8	32	4.2	161	4.2
	35-39	24	2.4	28	2.8	29	2.6	26	3.4	107	2.8
	40-44	19	1.9	13	1.3	11	1.0	21	2.8	64	1.7
	45-54	12	1.2	29	2.9	26	2.3	26	3.4	93	2.4
	55-64	17	1.7	9	0.9	5	0.5	9	1.2	40	1.0
	65+	2	0.2	2	0.2	3	0.3	1	0.1	8	0.2
Total		210	20.7	215	21.5	223	20.1	189	25.1	837	21.6
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	0.1	1	0.1	1	0.1	0	0.0	3	0.1
	15-19	37	3.7	34	3.4	37	3.3	26	3.4	134	3.5
	20-24	170	16.8	149	14.9	165	14.9	111	14.7	595	15.4
	25-29	215	21.2	176	17.6	185	16.7	125	16.6	701	18.1
	30-34	187	18.5	207	20.7	242	21.9	154	20.4	790	20.4
	35-39	120	11.8	139	13.9	142	12.8	103	13.7	504	13.0
	40-44	78	7.7	87	8.7	87	7.9	70	9.3	322	8.3
	45-54	114	11.3	112	11.2	144	13.0	88	11.7	458	11.8
	55-64	73	7.2	79	7.9	80	7.2	55	7.3	287	7.4
	65+	18	1.8	17	1.7	24	2.2	22	2.9	81	2.1
Total		1,013	100.0	1,001	100.0	1,107	100.0	754	100.0	3,875	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2022

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2022 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	8	0.8	4	0.4	8	0.7	7	0.9	27	0.7
	Asian/Pacific Islander ^a	8	0.8	5	0.5	9	0.8	7	0.9	29	0.7
	Black/African American ^a	436	43.0	448	44.8	504	45.5	308	40.8	1,696	43.8
	Hispanic/Latino	101	10.0	89	8.9	95	8.6	66	8.8	351	9.1
	White/Caucasian ^a	189	18.7	182	18.2	192	17.3	133	17.6	696	18.0
	Multiple Race	38	3.8	38	3.8	43	3.9	24	3.2	143	3.7
	Unknown	23	2.3	20	2.0	33	3.0	20	2.7	96	2.5
	Total	803	79.3	786	78.5	884	79.9	565	74.9	3,038	78.4
Female	American Indian/Alaska Native ^a	1	0.1	3	0.3	6	0.5	0	0.0	10	0.3
	Asian/Pacific Islander ^a	1	0.1	1	0.1	1	0.1	1	0.1	4	0.1
	Black/African American ^a	93	9.2	97	9.7	101	9.1	89	11.8	380	9.8
	Hispanic/Latino	22	2.2	14	1.4	13	1.2	9	1.2	58	1.5
	White/Caucasian ^a	70	6.9	83	8.3	82	7.4	76	10.1	311	8.0
	Multiple Race	16	1.6	10	1.0	10	0.9	8	1.1	44	1.1
	Unknown	7	0.7	7	0.7	10	0.9	6	0.8	30	0.8
	Total	210	20.7	215	21.5	223	20.1	189	25.1	837	21.6
Total ^c	American Indian/Alaska Native ^a	9	0.9	7	0.7	14	1.3	7	0.9	37	1.0
	Asian/Pacific Islander ^a	9	0.9	6	0.6	10	0.9	8	1.1	33	0.9
	Black/African American ^a	529	52.2	545	54.4	605	54.7	397	52.7	2,076	53.6
	Hispanic/Latino	123	12.1	103	10.3	108	9.8	75	9.9	409	10.6
	White/Caucasian ^a	259	25.6	265	26.5	274	24.8	209	27.7	1,007	26.0
	Multiple Race	54	5.3	48	4.8	53	4.8	32	4.2	187	4.8
	Unknown	30	3.0	27	2.7	43	3.9	26	3.4	126	3.3
	Total	1,013	100.0	1,001	100.0	1,107	100.0	754	100.0	3,875	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, 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, 2020-2022

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
ALAMANCE	921	1,023	810	366	524	342	27	40	49	21	16	38
ALEXANDER	111	68	67	48	28	13	1	3	3	1	1	0
ALLEGHANY	19	12	13	5	8	4	0	0	0	0	0	0
ANSON	203	213	191	104	106	89	0	4	6	0	4	6
ASHE	58	44	33	19	26	10	0	1	2	0	0	0
AVERY	26	28	18	7	4	7	2	1	2	1	0	1
BEAUFORT	306	289	178	156	137	85	2	5	8	0	2	3
BERTIE	129	133	91	60	83	30	3	2	8	2	2	3
BLADEN	189	155	167	113	93	77	2	5	4	1	0	3
BRUNSWICK	388	402	387	120	142	95	2	8	6	5	2	8
BUNCOMBE	1,116	1,040	941	582	488	362	30	41	52	17	17	21
BURKE	308	282	219	135	102	74	9	17	14	2	7	10
CABARRUS	1,189	1,295	1,254	398	444	457	16	22	28	15	17	25
CALDWELL	325	261	266	145	101	96	3	15	12	4	3	4
CAMDEN	19	30	12	7	7	6	0	1	0	0	1	0
CARTERET	203	155	195	53	42	41	3	1	4	1	3	4
CASWELL	97	93	110	43	60	39	1	4	2	3	4	1
CATAWBA	704	634	607	224	239	230	21	10	26	11	12	22
CHATHAM	178	209	246	45	68	48	2	6	3	4	3	1
CHEROKEE	36	47	43	18	13	6	0	0	2	0	0	0
CHOWAN	93	90	80	32	50	32	0	1	1	0	0	0
CLAY	15	14	17	11	7	0	1	1	0	0	0	1
CLEVELAND	654	733	582	331	320	271	3	20	25	5	10	18
COLUMBUS	305	336	283	123	174	118	1	7	6	2	8	7
CRAVEN	624	523	448	204	206	154	3	4	11	3	6	13
CUMBERLAND	4,208	4,350	3,822	1,734	2,010	1,523	51	101	133	67	71	105
CURRITUCK	64	56	9	11	16	1	1	0	2	0	3	2
DARE	67	65	74	25	15	10	0	1	1	1	0	1
DAVIDSON	714	759	677	420	477	281	14	31	27	5	9	19
DAVIE	128	134	21	42	32	10	0	1	12	0	1	1
DUPLIN	343	336	353	103	108	108	4	5	10	3	3	7
DURHAM	2,422	2,386	2,668	1,241	1,052	1,033	110	126	128	65	65	63
EDGECOMBE	598	599	729	410	349	382	3	10	37	7	8	13
FORSYTH	2,980	2,916	1,482	1,537	1,508	614	38	83	90	25	30	53
FRANKLIN	301	295	305	149	123	138	4	8	6	3	8	7
GASTON	1,549	1,517	1,446	716	770	637	29	36	50	24	33	28
GATES	68	34	25	21	9	10	1	0	0	1	0	2
GRAHAM	27	9	20	0	3	3	0	0	0	0	0	0
GRANVILLE	300	349	340	147	186	202	7	7	7	6	4	2
GREENE	181	123	145	70	55	69	2	4	6	0	4	7
GUILFORD	4,573	4,340	4,163	2,210	2,345	1,702	99	176	203	77	120	128
HALIFAX	479	460	495	289	274	126	11	10	5	9	6	13
HARNETT	726	795	667	281	292	215	2	26	23	4	20	22
HAYWOOD	150	130	128	81	41	17	4	6	5	1	0	3
HENDERSON	329	283	261	156	105	60	4	14	11	4	4	8
HERTFORD	234	183	137	88	79	57	0	2	4	3	1	8
HOKE	349	462	400	153	196	174	4	10	24	3	7	11
HYDE	14	11	14	5	3	3	0	0	0	0	1	0
IREDELL	713	738	710	351	310	284	7	14	18	12	6	13
JACKSON	194	233	195	56	46	30	1	0	2	0	0	1
JOHNSTON	886	933	960	333	328	352	16	24	34	8	14	21
JONES	41	59	44	10	33	23	0	0	0	0	0	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, 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, 2020-2022

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
LEE	319	317	345	115	135	117	9	6	2	7	3	7
LENOIR	550	521	607	273	270	258	6	9	17	6	4	16
LINCOLN	358	298	282	114	102	92	3	6	9	4	1	5
MACON	75	86	72	33	30	10	1	1	5	0	1	4
MADISON	53	46	60	23	15	12	1	2	7	2	0	0
MARTIN	180	157	171	83	63	64	4	2	0	6	0	3
MCDOWELL	153	109	109	82	54	69	8	8	21	4	5	7
MECKLENBURG	9,414	9,751	9,864	4,325	4,652	4,346	276	378	434	289	340	312
MITCHELL	37	18	27	8	9	8	0	1	1	0	0	0
MONTGOMERY	121	132	113	51	82	53	1	3	3	1	5	1
MOORE	333	399	374	108	149	132	4	9	10	4	4	8
NASH	702	713	693	476	455	395	12	10	32	12	18	27
NEW HANOVER	959	1,188	1,091	281	357	278	18	24	37	16	22	25
NORTHAMPTON	147	149	153	89	64	55	0	2	8	0	2	2
ONSLow	2,125	1,852	1,824	448	509	505	21	12	12	15	14	18
ORANGE	540	734	658	157	217	206	18	16	20	9	9	15
PAMLICO	39	39	38	14	21	21	1	0	0	0	0	0
PASQUOTANK	298	265	222	114	135	91	1	4	3	2	1	2
PENDER	208	165	160	62	55	57	1	6	2	2	4	1
PERQUIMANS	52	54	45	20	38	28	0	1	0	0	1	1
PERSON	240	271	214	69	137	99	5	6	2	3	6	2
PITT	1,921	1,905	2,037	879	863	889	22	38	48	10	19	36
POLK	34	34	28	13	13	13	4	0	0	1	0	1
RANDOLPH	568	551	547	223	199	130	2	7	11	7	9	14
RICHMOND	403	402	356	223	223	208	2	10	24	0	5	10
ROBESON	1,256	1,327	1,362	701	753	676	8	19	58	5	29	24
ROCKINGHAM	391	386	357	182	180	139	7	9	4	5	4	4
ROWAN	830	762	892	336	354	340	9	15	22	9	10	21
RUTHERFORD	280	286	228	131	161	126	2	10	23	2	6	9
SAMPSON	330	339	359	156	112	134	3	6	11	7	7	13
SCOTLAND	302	321	350	153	160	160	2	8	3	5	3	3
STANLY	254	316	250	126	126	90	2	2	4	4	1	2
STOKES	129	107	92	44	44	39	3	5	2	2	0	0
SURRY	172	185	202	74	88	56	2	0	8	2	0	2
SWAIN	64	80	31	33	34	17	0	1	0	0	0	0
TRANSYLVANIA	75	71	65	33	18	11	3	3	0	1	1	3
TYRRELL	12	12	11	4	1	9	0	0	0	0	0	0
UNION	965	985	953	292	298	288	14	10	35	16	9	19
VANCE	474	441	576	225	263	351	17	11	16	5	6	6
WAKE	5,744	5,933	5,234	2,217	2,386	2,022	176	204	230	150	165	156
WARREN	96	108	133	62	66	58	3	4	3	0	0	2
WASHINGTON	77	94	95	23	50	36	0	2	0	1	1	0
WATAUGA	220	245	318	29	20	36	3	9	2	2	2	2
WAYNE	822	990	951	278	369	359	25	14	36	15	9	14
WILKES	190	186	152	55	84	58	0	5	3	2	0	3
WILSON	768	896	819	502	435	429	16	20	27	8	24	35
YADKIN	100	89	83	24	27	29	1	3	3	0	2	2
YANCEY	27	33	22	11	11	7	0	0	0	0	1	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	64,261	65,012	61,173	27,962	29,124	24,356	1,260	1,835	2,310	1,067	1,289	1,564

Data Source: North Carolina Electronic Disease Surveillance System (data as of February 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2020-2022

COUNTY	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
ALAMANCE	14	25	16
ALEXANDER	1	1	1
ALLEGHANY	0	2	0
ANSON	1	4	3
ASHE	0	1	0
AVERY	2	1	0
BEAUFORT	7	5	6
BERTIE	2	5	2
BLADEN	2	3	2
BRUNSWICK	4	5	8
BUNCOMBE	13	21	27
BURKE	4	6	1
CABARRUS	13	24	27
CALDWELL	2	2	6
CAMDEN	0	2	0
CARTERET	6	6	3
CASWELL	3	2	2
CATAWBA	8	8	9
CHATHAM	2	6	3
CHEROKEE	1	0	2
CHOWAN	0	1	0
CLAY	0	0	0
CLEVELAND	7	7	15
COLUMBUS	3	4	7
Craven	3	11	10
CUMBERLAND	60	82	76
CURRITUCK	1	2	0
DARE	0	0	3
DAVIDSON	14	12	16
DAVIE	1	4	0
DUPLIN	3	9	5
DURHAM	49	61	68
EDGECOMBE	7	9	13
FORSYTH	39	64	74
FRANKLIN	2	5	7
GASTON	26	30	37
GATES	1	1	0
GRAHAM	0	0	0
GRANVILLE	4	7	5
GREENE	2	3	2
GUILFORD	93	136	95
HALIFAX	9	3	5
HARNETT	8	12	10
HAYWOOD	2	2	3
HENDERSON	2	11	5
HERTFORD	1	2	2
HOKE	8	8	15
HYDE	0	1	0
IREDELL	12	18	12
JACKSON	2	0	1
JOHNSTON	13	15	21

COUNTY	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
JONES	0	2	0
LEE	5	2	5
LENOIR	4	8	8
LINCOLN	3	5	2
MACON	4	0	0
MADISON	0	1	0
MARTIN	5	7	6
MCDOWELL	0	1	1
MECKLENBURG	210	280	293
MITCHELL	0	1	0
MONTGOMERY	5	0	0
MOORE	8	5	6
NASH	10	16	19
NEW HANOVER	23	26	17
NORTHAMPTON	0	1	4
ONslow	24	18	14
ORANGE	10	5	5
PAMLICO	0	3	0
PASQUOTANK	6	6	2
PENDER	5	3	4
PERQUIMANS	0	0	1
PERSON	3	8	5
PITT	22	35	30
POLK	2	0	1
RANDOLPH	6	8	9
RICHMOND	4	6	11
ROBESON	18	24	27
ROCKINGHAM	3	2	7
ROWAN	10	13	19
RUTHERFORD	1	2	0
SAMPSON	6	9	10
SCOTLAND	9	5	8
STANLY	1	2	4
STOKES	2	2	1
SURRY	5	0	4
SWAIN	0	0	0
TRANSYLVANIA	2	2	1
TYRRELL	0	0	0
UNION	11	10	15
VANCE	5	5	9
WAKE	134	159	148
WARREN	5	3	0
WASHINGTON	3	1	1
WATAUGA	2	1	1
WAYNE	11	21	15
WILKES	4	1	2
WILSON	18	18	9
YADKIN	3	3	4
YANCEY	0	0	0
UNASSIGNED*	13	17	33
TOTAL	1,082	1,396	1,386

* 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 7, 2023).

North Carolina HIV/STD Surveillance Report Vol. 2022, No.4

Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2020-2022

COUNTY	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
ALAMANCE	3	13	9
ALEXANDER	1	1	1
ALLEGHANY	0	2	0
ANSON	0	0	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	2	4	5
BERTIE	1	1	2
BLADEN	2	1	1
BRUNSWICK	2	2	3
BUNCOMBE	8	9	11
BURKE	1	2	0
CABARRUS	5	2	15
CALDWELL	1	0	5
CAMDEN	0	1	0
CARTERET	3	2	3
CASWELL	0	1	2
CATAWBA	6	4	4
CHATHAM	1	1	0
CHEROKEE	0	0	1
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	2	1	7
COLUMBUS	3	2	4
CRAVEN	5	2	6
CUMBERLAND	42	46	26
CURRITUCK	2	0	0
DARE	1	0	1
DAVIDSON	12	3	5
DAVIE	0	3	0
DUPLIN	2	4	5
DURHAM	29	33	31
EDGECOMBE	9	3	11
FORSYTH	22	32	37
FRANKLIN	1	3	4
GASTON	6	5	13
GATES	0	0	0
GRAHAM	0	0	0
GRANVILLE	2	4	3
GREENE	0	2	1
GUILFORD	35	19	36
HALIFAX	2	3	2
HARNETT	4	0	4
HAYWOOD	2	1	1
HENDERSON	2	5	2
HERTFORD	3	1	0
HOKE	4	5	7
HYDE	0	1	0
IREDELL	3	4	2
JACKSON	1	0	0
JOHNSTON	7	7	9
JONES	0	0	1
LEE	4	6	3

COUNTY	2020 Jan-Dec	2021 Jan-Dec	2022 Jan-Dec
LENOIR	4	2	4
LINCOLN	1	0	1
MACON	2	1	0
MADISON	0	1	0
MARTIN	1	5	3
MCDOWELL	0	0	2
MECKLENBURG	86	72	154
MITCHELL	1	1	0
MONTGOMERY	1	1	1
MOORE	2	5	4
NASH	7	7	4
NEW HANOVER	3	4	3
NORTHAMPTON	0	0	1
ONSLow	6	8	3
ORANGE	5	0	5
PAMLICO	0	1	1
PASQUOTANK	3	2	1
PENDER	2	2	2
PERQUIMANS	0	0	1
PERSON	2	3	3
PITT	12	16	9
POLK	0	0	0
RANDOLPH	4	2	5
RICHMOND	5	5	4
ROBESON	12	15	12
ROCKINGHAM	2	1	0
ROWAN	3	7	11
RUTHERFORD	2	1	0
SAMPSON	7	6	2
SCOTLAND	2	5	4
STANLY	2	2	0
STOKES	1	1	1
SURRY	4	0	1
SWAIN	0	1	0
TRANSYLVANIA	1	0	2
TYRRELL	0	0	0
UNION	5	2	10
VANCE	3	2	3
WAKE	58	74	63
WARREN	1	0	4
WASHINGTON	4	0	1
WATAUGA	0	0	0
WAYNE	5	5	6
WILKES	2	0	0
WILSON	8	9	4
YADKIN	2	2	0
YANCEY	0	0	0
UNASSIGNED*	9	3	10
TOTAL	521	515	629

* 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 7, 2023).