

2018 STD/HIV Surveillance Report

State of Louisiana
Department of Health
Office of Public Health



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Louisiana Office of Public Health STD/HIV/Hepatitis Program Overview

The History of the STD/HIV/Hepatitis Program Offices

The STD Control Program has been in existence for many years to screen and treat persons infected with a sexually transmitted disease, primarily syphilis, gonorrhea, and chlamydia in Louisiana. The STD Control Program staff located in the central office are responsible for collaborating with regional staff and community partners to ensure that STD screenings, treatment, and partner services are provided, as well as conduct surveillance and implement outbreak response initiatives and other special projects.

The Louisiana State University Health Sciences Center (LSUHSC) HIV Program Office was established in 1992 under the LSU School of Medicine, Department of Preventive Medicine. Simultaneously, the Louisiana Department of Health and Hospitals (DHH) was also addressing HIV public health issues through the Office of Public Health (OPH) HIV/AIDS Services. Noting that there were two State agencies addressing the HIV epidemic, LSU and OPH came together as the Department of Health and Hospitals (DHH) Office of Public Health (OPH) HIV/AIDS Program (HAP) in 1998.

In December 2010, the STD Control Program and the HIV/AIDS Program merged to become the STD/HIV Program (SHP). Beginning in 2018, SHP assumed many activities related to viral hepatitis prevention and became the STD/HIV/Hepatitis Program (SHHP). In January 2019, SHHP fully took on Hepatitis B & C surveillance activities.

About the Current STD/HIV/Hepatitis Program

The STD/HIV/Hepatitis Program administers statewide and regional programs designed to prevent the transmission of STDs, HIV, and Hepatitis B & C to ensure the availability of quality medical and social services for those diagnosed with an STD, HIV, or Hepatitis B or C and to track the impact of the STD, HIV, and Hepatitis B & C epidemics in Louisiana.

VISION

Achieve a state of awareness that promotes sexual health, ensures universal access to care, and eliminates new STD and HIV infections.

MISSION

SHHP's mission is to lead the effort to build a holistic, integrated, and innovative system of STD and HIV prevention, care, and education that eliminates health inequities. We will do this by utilizing quality data and technology to inform and direct policy and program around sexual health.

About this Report

The *2018 STD/HIV/Hepatitis Surveillance Report* provides a thorough surveillance profile of the HIV and STD epidemics in Louisiana. The diagnoses included in this report include syphilis, congenital syphilis, gonorrhea, chlamydia, HIV and AIDS. A new chapter was added to this report starting in 2016 that addresses HIV co-infection among new diagnoses of P&S syphilis, gonorrhea, chlamydia and hepatitis C.

For More Information:

SHHP maintains two websites <http://dhh.louisiana.gov/hiv> and www.louisianahealthhub.org.

Executive Summary

The following report provides detailed information regarding demographic and risk characteristics of individuals with HIV and STD infections and trends in the epidemics over time. This report includes cases diagnosed through 2018. Some of the most significant trends are highlighted below:

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HIV Surveillance

- At the end of 2018, 21,723 persons were living with HIV in Louisiana, of whom 10,982 (51%) have been previously diagnosed with AIDS. There are persons living with HIV in every parish in Louisiana.
- In the most recent *CDC HIV Surveillance Report* (Vol. 31), Louisiana ranked 4th in the nation for HIV case rates (20.9 per 100,000 population) and 12th in the number of reported HIV cases. The Baton Rouge MSA ranked 3rd and the New Orleans MSA ranked 7th for HIV case rates (27.3 and 24.2 per 100,000, respectively), among the large metropolitan areas in the nation.
- According to the CDC's webpage Atlas Plus, Louisiana ranked 4th highest in state AIDS case rates (10.9 per 100,000) and 12th in the number of AIDS cases in 2018. In the *Preliminary CDC HIV Surveillance Report* (Vol. 30), the New Orleans MSA ranked 5th in AIDS case rates (12.9 per 100,000) and the Baton Rouge MSA ranked 10th in AIDS case rates (9.4 per 100,000) in 2018 among the large metropolitan areas in the nation.
- In 2018, 976 individuals were newly diagnosed with HIV in Louisiana.
- The New Orleans region had the highest number of new HIV diagnoses and the Baton Rouge region had the highest rate of new HIV diagnoses in 2018 out of all nine public health regions. The Baton Rouge region had the 2nd highest number and the New Orleans region had the 2nd highest rate of new diagnoses.
- Women accounted for 26% of new HIV diagnoses in 2018. The HIV diagnosis rate among men was three times greater than the rate for women in Louisiana.
- Blacks continue to experience severe health inequalities; the HIV diagnosis rate for blacks was over five times higher than among whites in 2018. Although blacks make up only 32% of the state's population, 70% of newly diagnosed HIV cases and 72% of newly diagnosed AIDS cases were among blacks in 2018.
- In 2018, HIV diagnoses in youth aged 13-24 accounted for 23% of all new diagnoses. The majority of new diagnoses among youth are men (81%), black (75%), and are gay, bisexual, or other men who have sex with men (78%).
- In 2018, gay, bisexual, and other men who have sex with men (GBM), accounted for 57% of HIV diagnoses in the state; an additional 3% of HIV diagnoses were among GBM who were also injection drug users (GBM/PWID). The majority of the new diagnoses among GBM in Louisiana were black (68%) and under the age of 35 (69%).
- Of the 976 persons diagnosed with HIV in 2018, 13% had an AIDS diagnosis at the time of their initial HIV diagnosis, an additional 2% had an AIDS diagnosis within three months. Overall, 17% of all new HIV diagnoses in 2018 had an AIDS diagnosis within six months and are considered to be "late testers".

HIV Linkage and Retention in Medical Care

- In 2018, 75% of persons newly diagnosed with HIV were linked to HIV medical care within 30 days of their diagnosis.
- In 2018, 24% of all persons living with HIV in Louisiana were considered to have unmet need for HIV medical care. These persons did not have a single CD4 count or viral load test conducted in 2018.
- Among persons living with HIV in 2018 who had at least one HIV medical care appointment, 86% were virally suppressed (last viral load < 200 copies/ml).

Perinatal HIV Exposure and Congenital Syphilis

- Perinatal HIV transmission rates have declined significantly from a high of nearly 16% in 1994 to 0% in 2017.
- In 2017, 92% of mothers living with HIV in Louisiana received ARV therapy during pregnancy; 95% received appropriate care and treatment during labor/delivery; and 99% of newborns received prophylactic zidovudine shortly after birth. Eighty-nine percent of mother-infant pairs received all three recommended components of the antiretroviral prophylaxis protocol. Continued efforts must be made to intervene during pregnancy, labor/delivery, and after the birth of the child to achieve a perinatal HIV transmission rate below 1%.
- In 2018, 43 congenital syphilis cases in Louisiana were reported to the CDC. Congenital syphilis is on the rise across the country. Louisiana's congenital syphilis case rate in 2018 ranked 3rd in the US with a case rate of 72.8 cases per 100,000 live births, over two times the national rate of 33.1 cases per 100,000 live births.
- As of June 2014, Louisiana state law requires that pregnant women are screened for HIV and syphilis at the beginning of their third trimester of pregnancy, in addition to screening at their first prenatal care visit. All pregnant women should receive this repeated testing and timely treatment for HIV and syphilis to reduce the number of perinatal transmissions of HIV and syphilis.

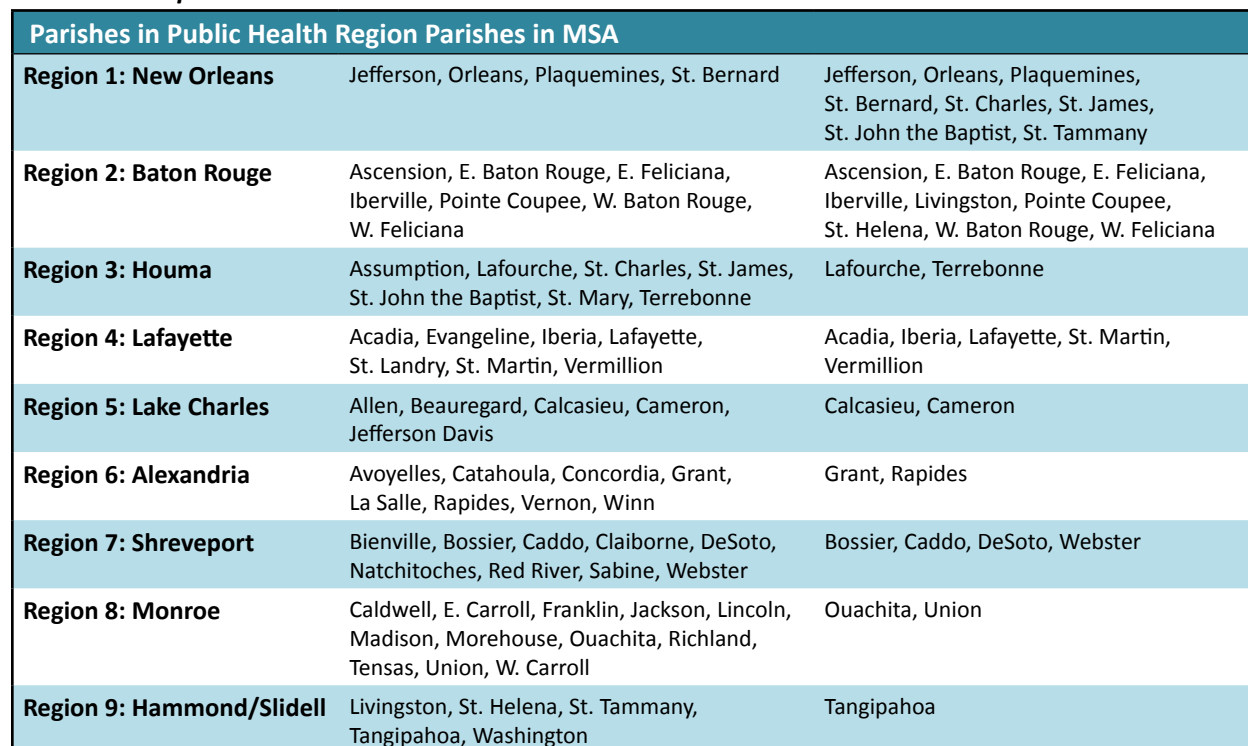
STD Surveillance

- In 2018, Louisiana ranked 2nd in the nation in chlamydia rates (778.8 per 100,000), 7th in primary and secondary (P&S) syphilis rates (14.4 per 100,000) and 5th in gonorrhea rates (258.4 per 100,000).
- There were 36,293 new cases of chlamydia, 12,043 cases of gonorrhea, and 669 cases of P&S syphilis diagnosed in Louisiana in 2018.
- The Monroe region had the highest rates of chlamydia, the Alexandria region had the highest rates of P&S syphilis, and the New Orleans region had the highest rate of gonorrhea out of all nine public health regions in Louisiana.
- Women accounted for 70% of chlamydia diagnoses, 49% of gonorrhea diagnoses, and 25% of P&S syphilis diagnoses in 2018.
- New STD diagnoses among Blacks is a significant health disparity. Blacks accounted for 70% of chlamydia diagnoses, 75% of gonorrhea diagnoses, and 64% of P&S syphilis diagnoses in 2018.
- Persons under the age of 25 account for the majority of chlamydia and gonorrhea diagnoses in Louisiana: 70% of chlamydia diagnoses and 55% of gonorrhea diagnoses. Persons under 25 years old accounted for 30% of P&S syphilis diagnoses.

HIV Co-Infection

- In 2018, coinfection with HIV was identified in 2% of chlamydia diagnoses (n=761), 7% of gonorrhea diagnoses (n=826), 28% of P&S syphilis diagnoses (n=190), and 3% of hepatitis C virus diagnoses (n=275).
- The number of persons identified with P&S syphilis/HIV co-infection has increased by 68% between 2013 and 2018, from 113 co-infections in 2013 to 190 co-infections in 2018.
- From 2013 to 2018, the gonorrhea/HIV co-infection rate nearly tripled from a low of 6.0 per 100,000 in 2013 to a high of 17.7 per 100,000 in 2018. During the same period, the gonorrhea/HIV co-infection rate in black males tripled from 24.4 per 100,000 black males to 76.8 per 100,000 black males.
- Gay, bisexual, and other men who have sex with men (GBM) and persons who inject drugs both accounted for the greatest proportions of HCV/HIV co-infections in 2018; each group accounted for 33% of HCV/HIV co-infections.

Louisiana's Population



Louisiana's Population and Healthcare Environment

Louisiana's Population

In the 2018 census, the total population of Louisiana was 4,659,978 persons. Louisiana is made up of 64 county-equivalent subdivisions called parishes. In 2018, parish populations ranged from a low of 4,462 persons (Tensas Parish) to a high of 440,956 persons (East Baton Rouge Parish). While the state is considered rural, 83% of the population resides in urban areas.ⁱ The state has nine public health regions and nine metropolitan statistical areas (MSAs). The largest MSA is the New Orleans Metro Area (1,270,399) followed by the Baton Rouge Metro Area (831,310). The Lafayette MSA has the third largest population in the state; 489,364.

Demographic Composition

According to the 2018 census data, the racial and ethnic composition of the state was estimated to be 59% White, non-Hispanic, 32% Black, non-Hispanic, 2% Asian, and <1% American Indian. Persons of Hispanic origin make up an additional 5% of the total population.

Age and Sex

In 2018, the census estimates that persons under the age of 18 made up 23.6% of the population while persons 65 and older made up 15.5% of the population. The median age in Louisiana is 37 years. As in previous years, the estimated proportion of females in the overall population in 2018 was slightly higher than that of males (51% vs. 49%).ⁱⁱ

Education, Income, Poverty and Unemployment

An estimated 85.8% of Louisiana residents aged 25 years and older had attained a high school degree or higher, compared to 88.3% nationally. Additionally, 24.3% of Louisiana adults had a bachelor's degree or higher compared to 32.6% nationally. The estimated median household income in Louisiana was \$47,905 for 2018 compared to \$61,937 nationally. Moreover, an estimated 18.6% of Louisiana's population was living below the poverty level, compared to 13.1% of the national population. Louisiana has one of the highest proportions of children living in poverty, with an estimated 26.5% of all children 18 years or younger living in households with an income below the federally defined poverty level in 2018 compared to the national estimate of 18.0% of all US children.ⁱⁱⁱ During 2018, the average unemployment rate in Louisiana was 4.9%.^{iv}

Incarceration/Crime

The Bureau of Justice Statistics ranks Louisiana's incarceration rate 1st among all 50 states with 908 incarcerated adults per 100,000. Louisiana's incarceration rate was almost double the national rate of 555 incarcerated adults per 100,000. As of December 31, 2018, the Louisiana prison system had 32,397 inmates under federal or state correctional authority, of which, 67% were Black and 33% were White.^v

Health Indicators

In the 2018 United Health Foundation's *America's Health Rankings* report, Louisiana ranked **50th** out of 50 in overall health. This national health survey compares multiple health outcomes and health determinants in all states. The low-place ranking is predominately due to the state having a high percentage of adults who smoke, high percentage of children in poverty, high rates of obesity, high rates of premature death, and high percentage of low birthweight infants.^{vi}

Public Aid

In 2018, Medicaid covered 29% and Medicare covered 13% of all persons living in Louisiana. An additional 8% of the population was considered to be uninsured.^{vii} Medicaid expenditures in Louisiana totaled \$11 billion in the 2018 fiscal year.^{vi} In 2018, 53% of children ages 0-18 were insured through Medicaid.^{viii}

National HIV/AIDS Strategy for the United States: Updated to 2020

The National HIV/AIDS Strategy (NHAS) was released by the White House on July 13, 2010. This strategy was the first of its kind for the United States. The NHAS outlined measurable targets to be achieved by 2015. The NHAS was constructed between Federal and community partners to create a common purpose and to determine what strategies and programs are working effectively to reach these common goals. This strategy helped change the way that people talk about HIV and prioritize services and prevention activities.

On July 30, 2015, the NHAS was updated to look ahead to 2020 and incorporate new scientific advances for testing, treatment and prevention.

VISION

“The United States will become a place where new HIV infections are rare and when they do occur, every person, regardless of age, gender, race/ethnicity, sexual orientation, gender identity or socio-economic circumstance, will have unfettered access to high quality, life-extending care, free from stigma and discrimination.”

There are four goals embedded in the Strategy with 2-3 unique actions steps:

GOAL 1: Reduce New HIV Infection

Focus on: Gay, bisexual and other men who have sex with men of all races and ethnicities, Black women and men, Latino women and men, People who inject drugs, Youth age 13 to 24 years, People in the Southern United States, and Transgender women.

- Intensify HIV prevention efforts in communities where HIV is most heavily concentrated.
- Expand efforts to prevent HIV infection using a combination of effective, evidence-based approaches.
- Educate all Americans with easily accessible, scientifically accurate information about HIV risks, prevention, and transmission.

GOAL 2: Increase Access to Care and Improve Health Outcomes for People Living with HIV

- Establish seamless systems to link people to care immediately after diagnosis, and support retention in care to achieve viral suppression that can maximize the benefits of early treatment and reduce transmission risk.
- Take deliberate steps to increase the capacity of systems as well as the number and diversity of available providers of clinical care and related services for people living with HIV.
- Support comprehensive, coordinated patient-centered care for people living with HIV, including addressing HIV-related co-occurring conditions and challenges in meeting basic needs, such as housing.

GOAL 3: Reduce HIV-Related Disparities and Health Inequities

- Reduce HIV-related disparities in communities at high-risk for HIV infection which include: Black, Latino, and American Indian/Alaska Native people, transgender people, and young people.
- Adopt structural approaches to reduce HIV infections and improve health outcomes in high-risk communities.
- Reduce stigma and eliminate discrimination associated with HIV status.

GOAL 4: Achieve a More Coordinated National Response to the HIV Epidemic

- Increase the coordination of HIV programs across the Federal government and between Federal agencies and State, territorial, Tribal, and local governments.
- Develop improved mechanisms to monitor and report on progress toward achieving national goals.

National HIV/AIDS Strategy (NHAS) Indicators	Louisiana Data by Year										Annual Progress	NHAS 2020 Goal
	2010 Baseline	2011	2012	2013	2014	2015	2016	2017	2018	2018 Target		
Goal 1: Reduce New Infections												
Increase the percentage of people living with HIV who know their serostatus to at least 90%	78.5%	79.6%	78.5%	79.4%	80.1%	80.0%	81.3%	81.4%	--	84.8% ^a	✗	90%
Reduce the number of new diagnoses by at least 25%	1,121	1,211	1,054	1,143	1,213	1,111	1,129	1,017	976	925	✗	841
Reduce the percentage of young gay and bisexual men who have engaged in HIV-risk behavior by at least 10%	--	--	--	--	--	--	--	--	--	--	○	--
Goal 2: Increase Access to Care and Improve Health Outcomes for PLWH												
Increase the percentage of newly diagnosed persons linked to HIV medical care within one month of their HIV diagnosis to at least 85%	53.1%	55.1%	56.0%	56.5%	65.0%	67.0%	69.7%	74.5%	74.9%	75.4%	↗	85%
Increase the percentage of persons with diagnosed HIV infection who are retained in HIV medical care to at least 90%	49.3%	49.8%	52.4%	52.9%	54.5%	54.5%	56.5%	58.0%	58.7%	77.8%	↗	90%
Increase the percentage of persons with diagnosed HIV infection who are virally suppressed to at least 80%	39.9%	40.4%	43.2%	47.8%	52.4%	55.9%	59.7%	61.2%	64.7%	68%	↗	80%
Reduce the percentage of persons in HIV medical care who are homeless to no more than 5%	6.8%	5.8%	6.5%	4.3%	3.8%	2.7%	2.1%	3.4%	3.0%	5.5%	✓	5%
Reduce the death rate among persons with diagnosed HIV infection by at least 33% ^b	26.2	26.1	25.5	21.2	20.9	19.8	20.0	18.6	--	20.1 ^c	✓	17.6
Goal 3: Reduce HIV-Related Disparities and Health Inequities												
Reduce disparities in the rate of new diagnoses by at least 15% among gay and bisexual men ^d	19.4	19.2	19.2	22.7	22.2	22.3	22.6	22.4	20.8	17.4	✗	16.5
Reduce disparities in the rate of new diagnoses by at least 15% among young Black gay and bisexual men ^d	70.8	75.1	80.3	89.1	90.6	86.3	85.8	75.5	78.4	63.4	✗	60.2
Reduce disparities in the rate of new diagnoses by at least 15% among Black females ^d	0.88	0.87	0.89	0.54	0.58	0.46	0.58	0.36	0.38	0.79	✓	0.75
Reduce disparities in the rate of new diagnoses by at least 15% among persons living in the Southern United States (i.e. Louisiana) ^e	0.74	0.96	0.75	0.98	1.07	0.92	0.96	0.84	0.82	0.66	✗	0.63
Increase the percentage of youth with diagnosed HIV infections who are virally suppressed to at least 80%	21.2%	28.5%	29.9%	33.8%	41.4%	47.6%	52.1%	52.8%	60.8%	62.4%	↗	80%
Increase the percentage of persons who inject drugs with diagnosed HIV infections who are virally suppressed to at least 80%	39.3%	39.3%	41.5%	45.3%	48.8%	51.6%	54.8%	54.9%	57.8%	67.8%	↗	80%

^a 2018 data unavailable, 2017 annual target listed^b Death rate is per 1,000 persons diagnosed with HIV infection^c Due to delays in death reporting, the most recent year for complete death data is 2017^d Measures shown are the ratios of the disparity rate in specified group to the overall rate in Louisiana^e Measures shown are the ratios of the disparity rate in Louisiana to the overall U.S. HIV diagnosis rate

Met or exceeded Annual Target



Annual Target not met, moving in direction of target



Annual Target not met, fluctuating progress towards target



Unable to assess target

Understanding HIV Disparities in Louisiana

Research has shown that a person's social circumstance has the single largest impact on their HIV outcomes.¹ While it is important to encourage individual responsibility for one's health, it is also critical to address the social and economic factors that may limit a person's opportunity to routinely engage in healthy behaviors. In the sections below, we identify populations that are disproportionately affected by HIV in Louisiana and the specific social circumstances that are driving these disparities.

In Louisiana and across the US, Black, gay, bisexual and other men who have sex with men (GBM), and transgender persons have the highest rates of HIV infection and HIV-related mortality compared to their counterparts. Studies show that these disparities stem from a complex combination of interrelated social factors that have largely resulted from an extensive history of institutional oppression. These social factors act as a barrier to routine HIV screening and sustained engagement in HIV medical treatment, which are two critical methods of preventing new HIV infections and HIV-related mortality. In recent years, Louisiana's STD/HIV/Hepatitis Program (SHHP) has increasingly focused on crafting policies and public health interventions to break down institutional barriers to HIV prevention and treatment in order to lower HIV infection and HIV-related mortality rates among these groups.

Causes of HIV Disparities among Blacks

A common misconception is that Blacks have higher rates of engaging in individual risky behaviors than other populations (e.g., unprotected sex, high number of sexual partners, drug use) and consequently, are at greater risk of being infected with HIV. Data from numerous studies have debunked this myth and show that Blacks actually tend to have lower rates of individual risky behaviors compared to their White counterparts. Furthermore, Blacks have higher rates of HIV infection even when engaging in behaviors of similar risk as Whites.²⁻¹⁷ Taken together, these data suggest that the causes of HIV disparities among Blacks cannot be explained by differences in rates of individual risky behaviors.

Studies show the actual causes of HIV disparities among Blacks are complex and involve interrelated social factors that are largely tied to the effects of historical and present-day institutionalized racism. A selection of these factors are discussed below.

Stigma and a Lack of Social Support. Studies have shown that stigma tied to race, HIV, same-sex sexuality and non-conforming gender identity has played a critical role in the development of HIV disparities.¹⁸⁻²¹ Stigma generates psychological distress, internalized shame, loss of self-worth, fear of being ostracized by society, and discriminatory treatment by others among persons associated with a marginalized population.²²⁻²⁴ Racial stigma against Blacks is fueled by an extensive history of institutional attitudes and policies that have systematically devalued, stereotyped, and excluded Blacks. Sources of racial stigma include the dehumanization of Blacks during slavery; denying Blacks equal rights; laws permitting and/or requiring racial segregation; unequal protection and treatment from police; housing discrimination and the isolation of Blacks in impoverished neighborhoods; inequitable access to education and employment; and inequities in incarceration rates. Furthermore, Blacks are often portrayed by the media and community leaders as being criminals, violent, promiscuous, lazy, and unintelligent. These institutional policies and practices reinforce the devaluation and stereotyping of Blacks in communities across the US.²⁵⁻³¹

The effects of multiple stigmas have been shown to be additive; thus, Blacks are more sensitive to other stigmas that have been shown to be associated with HIV disparities such as HIV stigma.³²⁻³³ HIV stigma also stems from the institutional marginalization and discrimination of persons with HIV infection that has existed in the US since the beginning of the epidemic. HIV infection is often involuntarily associated with other stigmatizing attributes (such as promiscuity, drug use, and same-sex sexuality) and myths regarding how it can be transmitted.³⁴ Other related stigmas that are associated with HIV disparities include homosexuality stigma and gender-related stigma against effeminate men and transgender women (these stigmas are discussed below in *Causes of Disparities among GBM and Transgender Persons: Stigma and a Lack of Support*).

Persons may forgo or delay HIV screening or HIV medical treatment due to the following stigma-related reasons:

- Avoiding healthcare providers that offer HIV-related services out of fear of being seen by community members and subsequently being associated with HIV, same-sex sexuality, or other stigmatizing attributes.
- Avoiding disclosure of HIV status, sexual orientation, or gender identity to providers, community members, sexual partners, or family because of internalized shame, fear of being shunned or discriminated against, or previous experiences of being shamed or treated unfairly.
- Avoiding HIV treatment adherence or sustained engagement in HIV medical treatment due to internalized shame or fear of HIV-status disclosure to community members, sexual partners, or family.

Poverty and Isolation in Underserved Neighborhoods. In Louisiana, 45% of Blacks are estimated to live in poverty compared to 17% of Whites.³⁵ This alarming socioeconomic gap is largely the result of institutional policies and practices that deny Blacks equal opportunities for housing, education, and employment.³⁶ Blacks have endured a history of discriminatory legislation and housing practices in the US that have limited them to living in underserved neighborhoods isolated from Whites. Throughout the majority of the 20th century, Blacks were banned from home ownership assistance programs (such as the GI bill), barred from White neighborhoods due to legislation (1934 Housing Act), and faced widespread discriminatory real estate and mortgage lending practices (such as redlining). Blacks also have a long history of being effectively barred from renting in White neighborhoods due to discriminatory renting practices.³⁷⁻⁴⁶ Many Black neighborhoods suffer major disinvestment from local governments, the real estate market, and businesses leading to plummeting housing values, a dearth of livable wage employment opportunities, and a lack of high-quality public services such as education, healthcare, access to healthy foods, and public transportation. These structural inequities result in neighborhoods with little opportunity for overall economic growth and perpetually high rates of poverty.^{37,47}

Poverty and isolation in underserved neighborhoods have a significant impact on the utilization of HIV screening and HIV medical treatment among Blacks. Some examples of this impact are described below.

- Lack of comprehensive, adequate healthcare coverage due to affordability and a lack of opportunities for jobs that include health insurance benefits. Consequently, Blacks may delay or forgo HIV screening and HIV medical treatment due to affordability concerns.
- Lack of transportation to attend healthcare appointments. Many Blacks lack adequate transportation options to attend healthcare appointments due to affordability and a lack of adequate public transportation options and nearby healthcare providers within Black communities.^{37,47}
- Lack of job flexibility to attend healthcare appointments. Employees of low-wage jobs typically do not have paid sick leave or affordable child-care options in order to go to clinic appointments during business hours.
- Homelessness can lead to a lack of privacy to store and take HIV medications as well as a dearth of methods of contact for healthcare providers to reach patients.
- Healthcare providers may have policies that unintentionally or intentionally make healthcare access difficult for impoverished patients who have Medicaid, lack certain identification documents, are illiterate, have mental disabilities, or have drug abuse issues.

Inequitable Treatment in the Healthcare System. Blacks have endured a history of abuses and discriminatory treatment in the healthcare system that continues into the present-day. In response, many Blacks consider healthcare providers to be untrustworthy or unreliable. This sentiment can lead to delayed HIV screening and significant gaps in HIV medical treatment engagement. Some sources and examples of this mistrust are listed below.⁴⁸

- The Tuskegee syphilis experiment. A study conducted by the US Public Health Service for 40 years (between

1932 and 1972) where Blacks who were diagnosed with syphilis were purposely not told of their diagnosis and not treated in order to monitor the progression of the disease.^{48,49}

- Black are more likely than Whites to report feeling belittled, stereotyped, or disrespected by healthcare provider staff and doctors. Blacks have also been less likely than Whites to report feeling satisfied with the care and treatment they received.⁴⁹
- Nationally, Blacks receive less aggressive or delayed treatment (including delayed prescribing of HIV treatment), on average, compared to Whites for the same medical conditions due to implicit racial biases and stereotyping among healthcare providers.⁴⁹
- A lack of Black physicians in the healthcare system. Blacks make up only 4% of US physicians even though they make up 13% of the US population. Black patients report higher levels of confidence, trust, and satisfaction when seeing Black physicians compared to White physicians. In addition, Black physicians may be more likely to have a better understanding of the social and cultural factors that affect health behaviors and outcomes among Black patients.⁴⁹⁻⁵⁰

Incarceration Disparities. Louisiana has the highest incarceration rate and some of the longest incarceration sentences in the US. Blacks in Louisiana are four times more likely than Whites to be incarcerated in jails or prisons.⁵¹ Reasons for this alarming disparity include over-policing in Black communities, racial profiling due to racial stigmas, differences in incarceration outcomes for similar crimes between Whites and Blacks, lack of adequate legal representation in court, bond policies that favor wealthy individuals, and a lack of social support and job opportunities upon reentry into the community.⁵²⁻⁵⁷ Incarceration may have the following effects:

- Persons may experience substantial interruptions in routine HIV screening and HIV medical treatment during and after incarceration due to difficulty accessing HIV medical services in correctional facilities and significant difficulty obtaining employment, housing, and healthcare upon release.^{52,57}
- Incarceration may disrupt stable, monogamous relationships and lead to a lower number of available sexual partners in a community. A smaller sexual network increases the risk of exposure to HIV and other STDs.^{52,57}
- Incarceration generates additional stigma that may affect HIV screening and medical treatment utilization patterns.^{52,57}

Causes of HIV disparities among Gay, Bisexual and other Men who have Sex with Men and Transgender Women*

While gay, bisexual and other men who have sex with men (GBM) and transgender women have the same concerns regarding their health as other groups, they continually have the highest rates of HIV infection in Louisiana and across the US.⁶⁵ Studies show that HIV disparities among GBM and transgender women are fueled by interrelated social factors associated with a history of institutional norms and policies in the US that are rooted in heterosexism, homophobia, and transphobia. Social factors related to the institutional oppression of Blacks (discussed in the previous section) also play a role in the development and persistence of these disparities as Black GBM and transgender women bear the largest burden of HIV of any population in Louisiana. A selection of these social factors are discussed on the following pages.

Stigma and a Lack of Social Support. Studies have shown that stigma tied to same-sex sexuality and non-conforming gender identities has played a critical role in the development of HIV disparities.^{18,22-25,33} Stigmas faced by GBM and transgender women are fueled and reinforced by an extensive history of institutional attitudes

* Rates of HIV infection among transgender men in the US has not been sufficiently researched; however, transgender men in the US suffer from some of the same institutional oppressions as transgender women. SHHP intends to include transgender men in all prevention and service efforts.

and policies that have perpetually devalued, stereotyped, and discriminated against same-sex sexuality and non-conforming gender identities. Laws and policies in the US have long allowed GBM and transgender women to be denied equal treatment, housing, employment, marriage benefits, entry into the armed forces, access to public accommodations (retail stores, banks, libraries, restaurants, etc.) , and other equal protections.⁵⁷⁻⁶¹ Likewise, many important religious institutions strongly prohibit and/or vilify same-sex sexuality and non-conforming gender identities. Moreover, GBM and transgender women have often been negatively portrayed by community leaders and the media as being promiscuous, drug users, pedophiles, criminals, and/or sex workers.⁶³

Due to widespread stigma, GBM and transgender women often face severe hostility, ostracism, and violence from family, friends, and community members upon revealing their sexuality and/or gender identity. Consequently, GBM and transgender women may feel tremendous internalized shame, fear of discrimination or mistreatment, and psychological distress. GBM and transgender women are also more sensitive to other stigmas such as HIV stigma and racial stigma as the effects of multiple stigmas have been shown to be additive. Altogether, the psychological distress caused by this combination of stigma can result in delayed HIV screening and medical treatment (additional details on the effects of stigma on HIV infection risk are available in the above section, *Causes of HIV Disparities among Blacks: Stigma and a Lack of Support*).^{18, 22-25, 33}

Poverty, Ostracism, and Discriminatory Treatment. Transgender persons, particularly transgender persons of color, are dramatically more likely to live in poverty and experience homelessness than the general US population due to the widespread prevalence of discriminatory policies and hostile attitudes against this population. A national study of transgender women in the US found that transgender persons were four times as likely to have a household income under \$10,000 compared to the general US population (15% vs. 4%). Black transgender persons face worse financial outcomes than other transgender persons. One in three Black transgender persons (34%) reported an income below \$10,000 and 41% of Black transgender persons have reported ever being homeless.⁶¹

Transgender women often first encounter poverty and homelessness as youths. Studies show that transgender women are significantly more likely to endure harsh bullying, ostracism, harassment, and violence from schoolmates, families, and school administrators. Transgender students who face these experiences are more likely to have higher levels of psychological distress, lower academic achievement, miss class, and not plan on attending college. As a result, transgender persons may be less prepared to compete for livable-wage jobs. In addition, rejection from family members during childhood is a major cause of homelessness among transgender youth.^{64,65} Currently, Louisiana has no laws protecting students from discrimination or bullying on the basis of gender identity.⁶⁰

Transgender women also face significant employment and housing discrimination due to their gender identity. In a review of 11 surveys, 13-47% of transgender respondents reported being unfairly fired or denied a job. In another survey, 78% of transgender persons reported experiencing harassment or mistreatment at work.⁶¹ In addition, 19% of transgender persons have reported discrimination in the housing and renting market and 29% have reported discrimination from shelters and public housing.⁶² Currently, Louisiana has no laws banning employment or housing discrimination based on gender identity.⁶⁰

Poverty and homelessness have a significant impact on the transmission of HIV and the utilization of HIV screening and HIV medical treatment among transgender women. Some examples of this impact are described below (additional examples can be found in the above section, *Causes of HIV Disparities among Blacks: Poverty and Isolation in Underserved Neighborhoods*).

- Transgender women face immense employment discrimination due to gender nonconformity and may turn to sex work in order to survive. In a national survey of transgender persons in the US, 40% of black transgender persons and 6.3% of white transgender persons reported ever engaging in sex work (10.8% for all races). Almost 70% of these individuals reported discrimination in the traditional workforce. Engaging in unregulated sex work for survival is a significant risk factor for HIV transmission as there are financial

pressures to engage in unprotected sex and a risk of sexual assault.⁶²

- Lack of comprehensive, adequate healthcare coverage due to affordability and a lack of opportunities for jobs that include health insurance benefits. In one study, 48% of transgender persons reported delaying or going without medical care because they could not afford it.⁶⁵

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Inequitable Treatment in the Healthcare System. GBM and transgender women face widespread discrimination and exclusionary policies within the US healthcare system. As a result, GBM and transgender women are less likely to have a regular place to go for medical care (such as a primary care physician) and they are more likely to delay or forgo preventative care and treatment (such as routine HIV screening and HIV medical treatment).^{62, 65}

- Many GBM and transgender individuals report being refused care by healthcare providers and/or facing harassment, ridicule, or disrespectful treatment by health provider staff and physicians. Staff and physicians may also blame a patient's sexual orientation or gender identity as the cause of an illness.^{62,65}
- Many insurance policies have historically used or continue to use blanket exclusions to deny coverage for health concerns of transgender persons such as transition surgery, sex-specific preventative services (i.e., prostate exams for transgender women), and hormone medications. Louisiana lacks any laws prohibiting insurance companies from discriminating against transgender persons. As a result, transgender women may be discouraged from enrolling in healthcare insurance.^{62,65}
- Transgender persons may experience delays or difficulties in accessing coverage because their gender identity or chosen name does not reflect the gender or name on their identification documents (such as a driver's license or social security card). Changing identification documents to reflect one's gender identity can be time-consuming and expensive.^{62,65}
- Most doctors receive little or no instruction on the unique physical and mental health concerns of GBM and transgender women. Consequently, many GBM and transgender women go without receiving adequate, client-centered care.^{62, 65}

Incarceration and Survival. Transgender women, particularly low-income and Black transgender women, face high levels of over-policing, profiling, police harassment, and incarceration. Transgender women are often shunned from employment opportunities, family, and their surrounding community. To survive, some transgender women may turn to activities that carry a high risk of incarceration such as sex work or drug trafficking. Transgender women also report being the target of random searches by police and being incarcerated for carrying condoms due to suspicion of sex work engagement.^{62,66} Incarceration may have the following effects for transgender women:

- Transgender women placed in men's prisons face a high risk of being sexually assaulted. One study found that 59% of transgender women in men's prisons reported ever being sexually assaulted while in prison.⁶²
- Transgender women may experience substantial interruptions in routine HIV screening and HIV medical treatment during and after incarceration due to difficulty accessing HIV services in correctional facilities and difficulty obtaining access to healthcare upon release. In addition, they may experience disruptions in transgender-specific healthcare such as hormone therapy and mental healthcare.
- Transgender women may be discouraged from carrying condoms due to the risk of profiling and subsequently being incarcerated.
- Transgender persons who have been incarcerated are at higher risk of future incarceration because of the tremendous difficulty they may face obtaining employment, housing, and healthcare upon release.

Eliminating HIV Disparities among Blacks, GBM, and Transgender Women

SHHP is committed to adopting policies and developing interventions that tackle the institutional barriers that are driving HIV disparities among Blacks, GBM, and transgender women. This commitment is aligned with the mission and goals of the National HIV/AIDS Strategy (described in the section titled *National HIV/AIDS Strategy*). Examples of SHHP's efforts are presented below.

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Addressing HIV Transmission Disparities

- **No-cost HIV testing and counseling.** SHHP supports HIV testing and counseling through contracts with community-based organizations and through partnerships with parish health units, hospital emergency departments, correctional facilities, substance abuse treatment programs, Federally Qualified Health Centers, and school-based health clinics.
- **Wellness Centers.** SHHP has contracted with six community-based organizations to provide integrated prevention services to GBM and transgender women in New Orleans, Baton Rouge, Lafayette, Shreveport, Monroe, and Alexandria.
- **Pre-exposure Prophylaxis (PrEP) Navigation.** SHHP supports PrEP navigators at three community health centers in the New Orleans region to increase PrEP awareness, link HIV-negative persons to a PrEP provider, and assist PrEP users with long-term PrEP adherence. PrEP navigators also refer persons to social support services that may address barriers to HIV prevention behaviors and PrEP utilization, such as housing, transportation, financial support, medical, and mental health. PrEP medication (Truvada®) is highly effective at preventing HIV transmission when used as prescribed.
- **PrEP Telemedicine Navigation.** SHHP's telemedicine navigation program connects HIV-negative persons to a PrEP provider that utilizes video conferencing to prescribe PrEP remotely.
- **No-cost condom distribution.** Condoms and lubricant are made available in neighborhoods through hundreds of community sites, parish health units, and through various outreach activities. The use of condoms during sexual activity is a highly effective method of preventing HIV transmission.

Addressing HIV Health Disparities among Persons Living with HIV

- **Case Management.** SHHP contracts with community-based organizations to provide medical and non-medical case management and other critical supportive services to assist persons living with HIV with access to medical care and address potential medical and socioeconomic barriers to entering or staying connected to HIV care.
- **Louisiana Health Access Program (LA-HAP).** SHHP provides access to HIV medications for uninsured persons living with HIV and assistance with health insurance premiums and other cost shares for insured persons living with HIV.
- **Louisiana Links.** A linkage/re-engagement and patient navigation intervention that utilizes HIV surveillance data to find persons living with HIV who may be in need of linkage/reengagement to HIV medical care or treatment adherence services. Enrollees in this program receive assistance overcoming socioeconomic barriers to HIV medical care that typically goes above and beyond what is provided through traditional case management.
- **Health Models.** A pay-for-performance treatment and prevention program that gives financial incentives to patients who attend regularly scheduled HIV medical appointments and reach and maintain viral suppression. Enrollees in this program also receive additional counseling and HIV education.
- **Pre-release Reentry Services.** Incarcerated persons living with HIV are offered pre-release reentry services aimed at helping them link to HIV medical care and other critical support services upon release and prepare for challenges that may arise while transitioning to life in the community. These services include education on social support services in their community that they may qualify for, referral to medical care, assistance making their first HIV medical appointment, assistance with enrollment into Louisiana's AIDS Drug Assistance Program, and referral to case management at an agency in their community.

Social Equity Training for Health Department Staff and Care Providers

- **Trainings on Institutional Oppression.** SHHP has partnered with capacity building organizations to provide trainings on institutional racism, transphobia, and homophobia to its staff, as well as staff at parish health centers, Federally Qualified Health Centers, and other community-based organizations across the state.

Community Engagement

- **Community Advisory Boards.** SHHP consults with community advisory boards for guidance when designing and implementing HIV interventions and strategic plans, creating social marketing materials and programs, and interpreting monitoring and evaluation data.

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Profile Of The HIV Epidemic In Louisiana

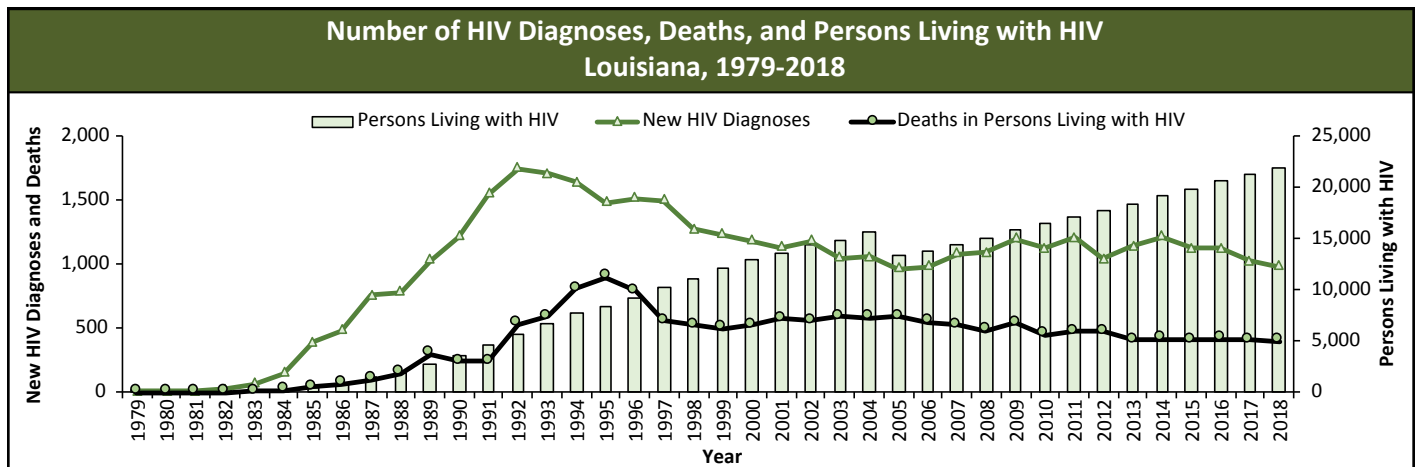
Introduction to HIV Surveillance

The Louisiana Department of Health, Office of Public Health STD/HIV/Hepatitis Program's (SHHP) HIV Surveillance Program conducts general case ascertainment through the receipt of reports of potential cases of HIV infection from clinical providers, laboratories, and other public health providers throughout the state with funding from the Centers for Disease Control and Prevention (CDC) and in accordance with the Louisiana Sanitary Code. Basic demographic and risk information are also collected. Additionally, the program monitors perinatal exposure to and transmission of HIV, acute HIV infections, HIV transmission patterns through genetic sequence data, clinical manifestations of HIV disease, mortality, the utilization and impact of care and treatment, and measures of high risk behavior.

Louisiana began confidential name-based reporting of AIDS diagnoses in 1984 and confidential name-based reporting of HIV (non-AIDS) diagnoses in 1993. In 1999, the Louisiana Sanitary Code was revised to mandate the reporting of all HIV-related laboratory results (e.g., CD4 counts, viral loads, Western blots). In 2010, the Sanitary Code was revised to explicitly require the reporting of HIV in pregnancy as well as prenatal exposure to HIV. Maternal and pediatric medical records are reviewed to assess testing and treatment. Follow-up occurs until the infant's HIV status is determined. In 2019, the Sanitary Code was revised to require the reporting of negative HIV laboratory data from laboratories that report via electronic reporting mechanisms. The negative laboratory reporting will be used to improve public health understanding and practices related to, but not limited to the following: identification of acutely infected individuals to target prevention and response efforts, identify false-positive cases using subsequent negative testing, and monitor screening rates using de-identified data to enhance prevention efforts and identify providers or regions of the state that are not meeting screening standards and guidelines.

Data from the above surveillance activities are analyzed and non-identifying summary information is provided to public health programs, community based organizations, researchers, and the general public through reports, presentations, data requests, and regional profiles. The information is provided for the purposes of program planning and education, such as to assess the risks for HIV and develop effective HIV prevention programs; to help identify where services for people living with HIV are needed; and to assist with the allocation of federal and state funding.

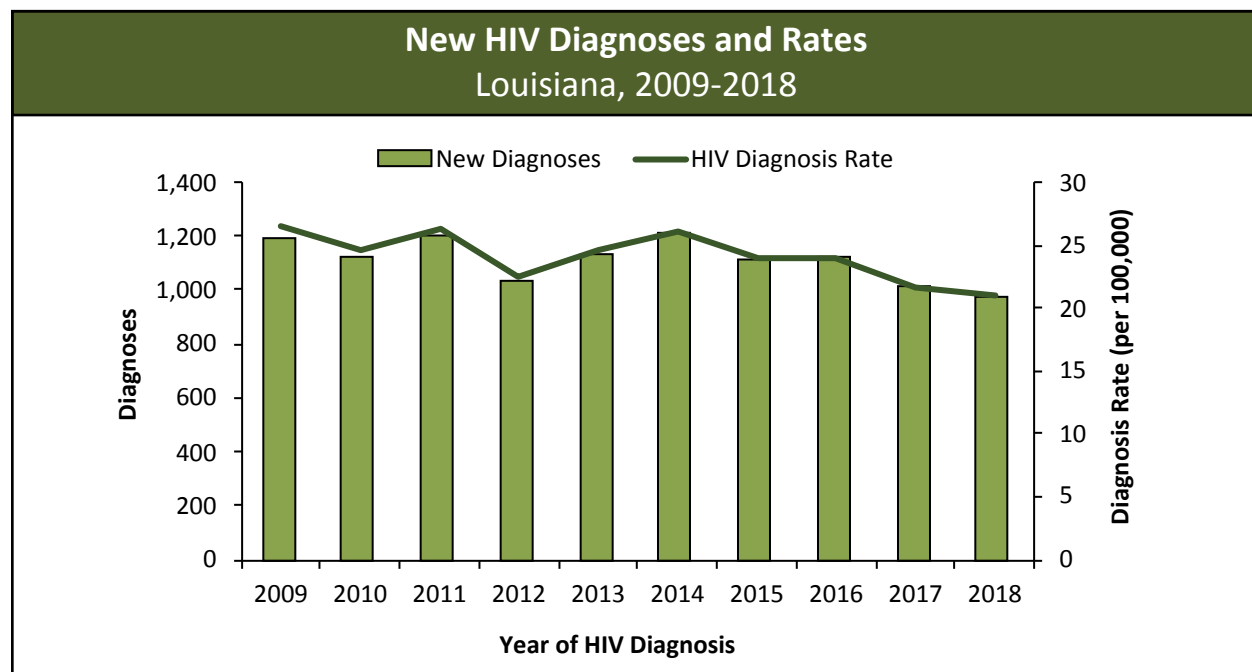
This report includes data for persons diagnosed with HIV or AIDS through December 31, 2018 and reported to SHHP before December 19, 2019. The report presents both numbers and rates of HIV and AIDS diagnoses. New HIV diagnoses are the number of people diagnosed with HIV at any stage of the disease within a given year. Rates take into account differing population sizes among demographic groups or areas, which allows for the direct comparison of rates between two or more groups or areas. This can help identify important differences between groups of people or areas.



The first reported Louisiana resident with AIDS was diagnosed in 1979. In the 40 years since then, the number of persons living with HIV in the state has continued to increase. New HIV diagnoses peaked in 1992 and deaths among persons with HIV peaked in 1995. Deaths have decreased since 1995 due to the availability of more effective treatments. The decreases seen in 2005 in both persons living with HIV and new HIV diagnoses were due to the impact of Hurricane Katrina which resulted in the dislocation of a large number of persons from the New Orleans metropolitan area and disruptions in HIV testing.

10-Year Trends in New HIV Diagnoses (2009-2018)

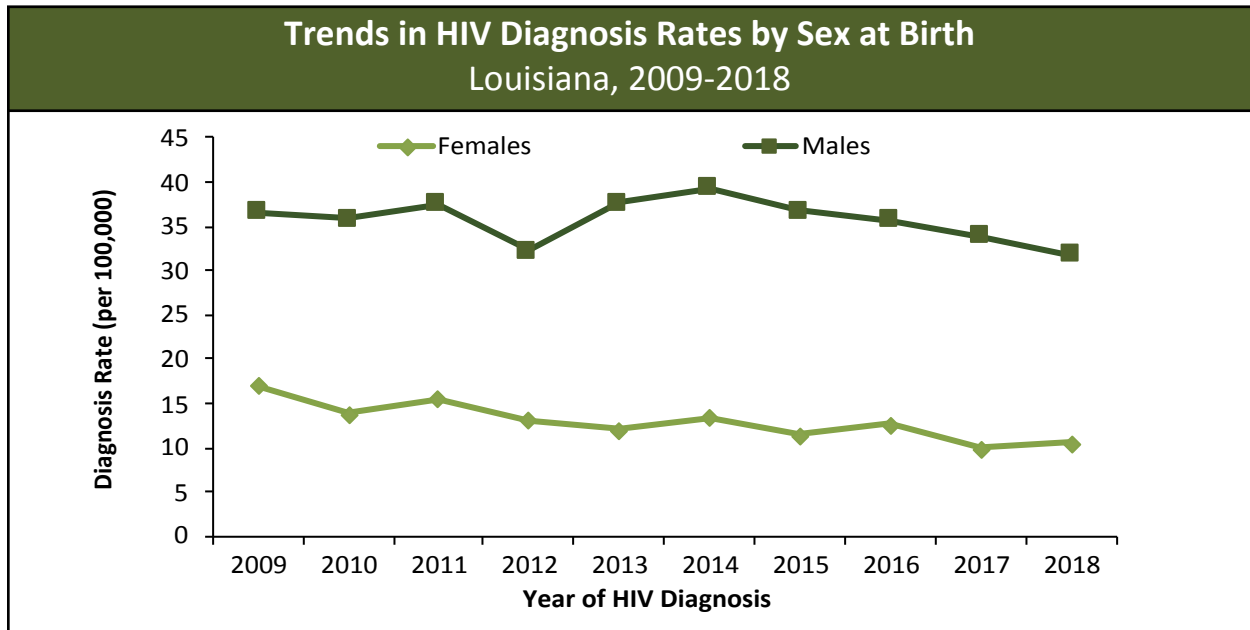
The number of new HIV diagnoses in a given year has historically served as a measure of new infections (incidence). However, since individuals may have HIV for varying periods of time before they are diagnosed, counting new HIV diagnoses is not an accurate representation of new infections in a given year.



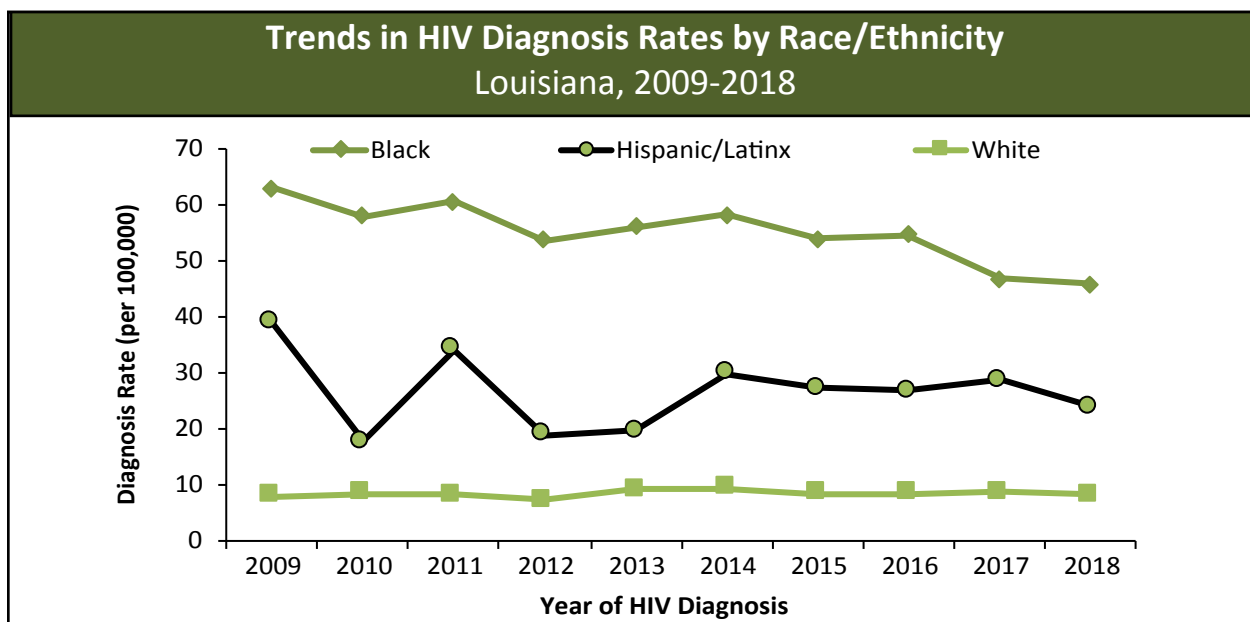
- In 2018, 976 individuals were newly diagnosed with HIV in Louisiana. Over the past 10 years, the number of new HIV diagnoses has fluctuated from a low of 976 diagnoses in 2018 to a high of 1,211 diagnoses in 2014.
- Over the past 10 years, the HIV diagnosis rate ranged from a low of 20.9 per 100,000 in 2018 to a high of 26.6 per 100,000 in 2009, followed closely by 26.3 per 100,000 in 2011.

HIV Diagnoses by Sex, Race/Ethnicity, and Age

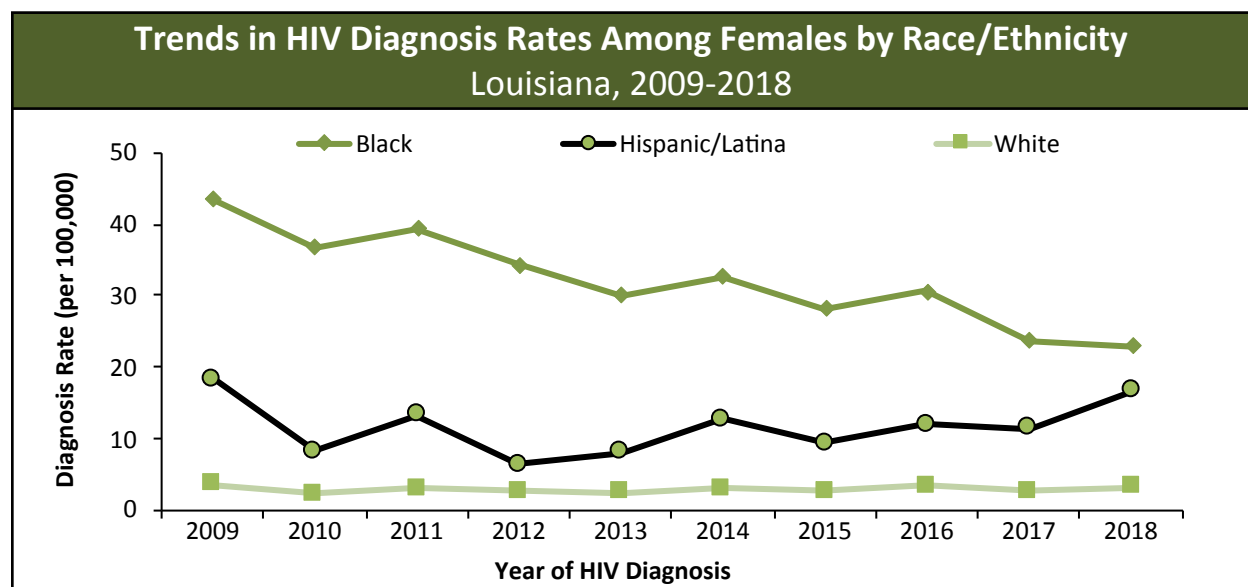
Although the HIV epidemic affects persons of all genders, ages, and race/ethnicities in Louisiana, the impact is not the same across all populations. Identifying the populations more likely to acquire HIV helps in planning HIV prevention activities and services, as well as determine the most effective use of limited resources. To get a better understanding as to how some groups are disproportionately impacted by the HIV epidemic, refer to the introductory chapter of this surveillance report.



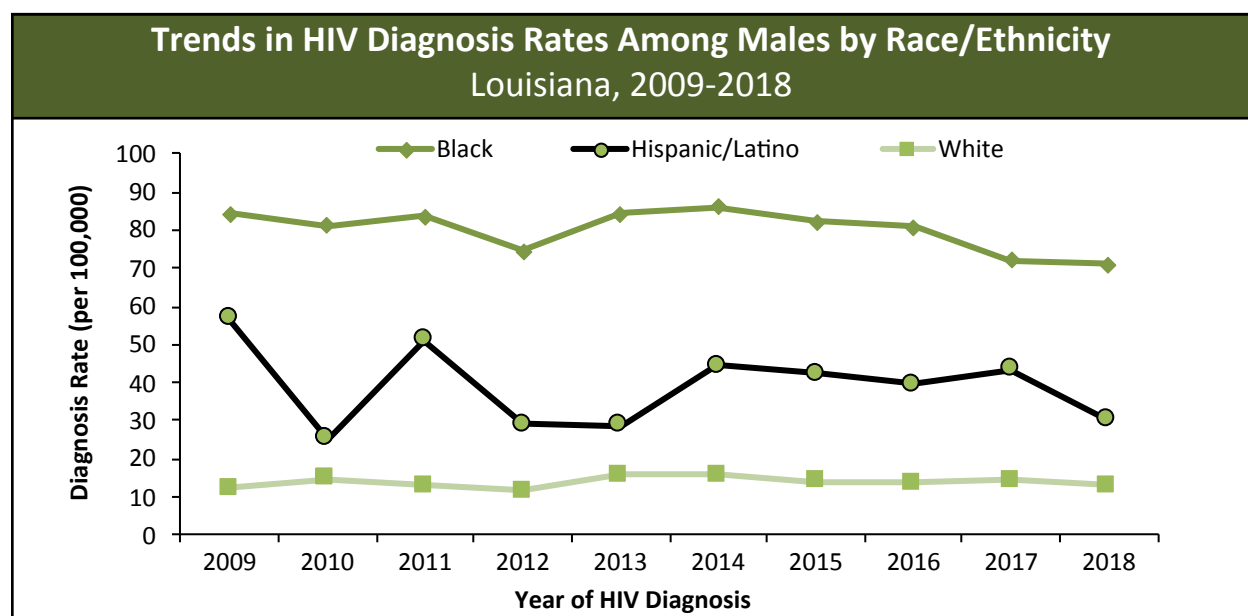
- Overall, the HIV diagnosis rate for females in Louisiana has declined over the past 10 years. In 2009, the female HIV diagnosis rate was 17.0 per 100,000. In 2018, the female HIV diagnosis rate declined to 10.5 per 100,000.
- The rate for men over the past 10 years has been more variable. From 2012 to 2014, the male HIV diagnosis rate increased sharply from 32.3 per 100,000 to 39.3 per 100,000. In 2018, the male HIV diagnosis rate declined to a 10-year low of 31.9 per 100,000 males. The HIV diagnosis rate for males was three times greater than females in 2018. Cumulatively, males have accounted for 73% of all new HIV diagnoses in Louisiana over the past 10 years.



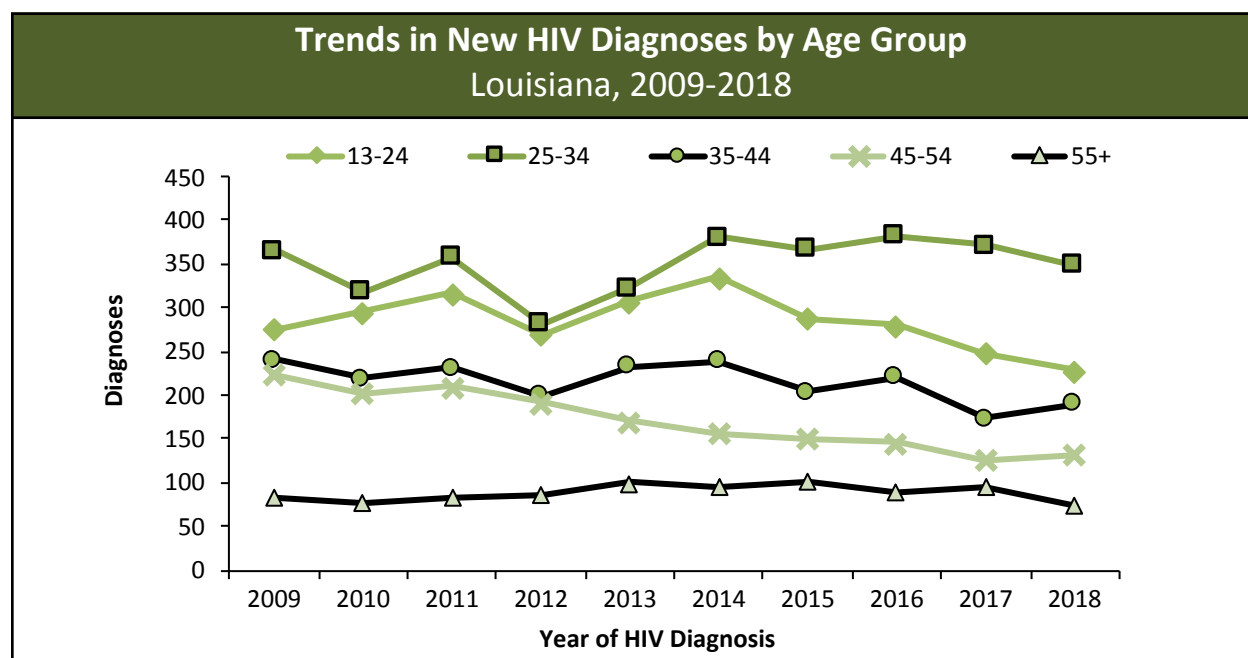
- The HIV diagnosis rate among Whites has remained relatively stable over the past 10 years, with a diagnosis rate of 7.9 per 100,000 Whites in 2018. The rate for Blacks has been more variable with a low of 45.6 per 100,000 Blacks in 2018 to a high of 62.8 per 100,000 Blacks in 2009.
- In 2018, the HIV diagnosis rate for Blacks was 5.8 times greater than the rate for Whites and almost twice the rate for Hispanics/Latinx (23.8 per 100,000 Hispanics/Latinx). The HIV diagnosis rate for Hispanics/Latinx was three times the rate for Whites; among the 976 newly diagnosed persons in 2018, 58 were Hispanic/Latinx. The number of new diagnoses among Hispanic/Latinx persons is smaller which causes more variability in the rate of new diagnoses from year to year.



- In 2018, the HIV diagnosis rate in Black females (22.9 per 100,000) was 7.2 times greater than the rate for White females (3.2 per 100,000) and was 1.4 times greater than the rate for Hispanic/Latina females (16.7 per 100,000).
- The HIV diagnosis rate among Black females has declined significantly from a high of 43.4 per 100,000 in 2009 to a low of 22.9 per 100,000 in 2018.
- The HIV diagnosis rate for Hispanic/Latina females is higher than for White females, although the number of diagnoses is higher among Whites.



- In 2018, the HIV diagnosis rate among Black males (70.9 per 100,000) was 5.5 times greater than the rate for White males (12.8 per 100,000), and was 2.4 times the rate for Hispanic/Latino males (30.0 per 100,000). The HIV diagnosis rate among Black males reached a 10-year low in 2018.
- Black females and males in Louisiana account for the overwhelming majority of new HIV diagnoses each year. When considering Blacks make up only 32% of Louisiana's population, these disproportionately high diagnosis rates reflect the stark racial and ethnic health disparities that exist in the state.



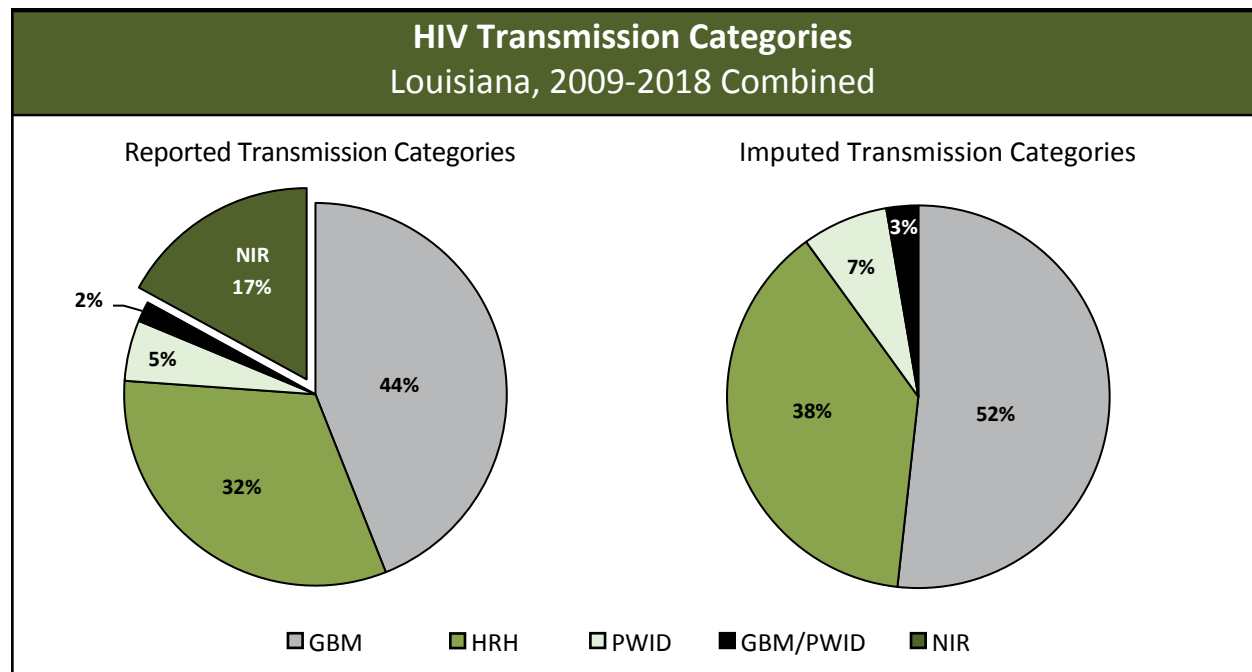
- The number of new diagnoses among youth, age 13-24 years, is of special interest in Louisiana and across the nation. In 2009, the number of new diagnoses among 13-24 year olds surpassed the number of new diagnoses among 35-44 year olds to become the second largest age group for new diagnoses. In 2018, new diagnoses in youth accounted for 23% of new diagnoses.
- Over the past 10 years, the 25-34 year-old age group consistently accounted for the highest number and percentage of new diagnoses, comprising 36% of all new HIV diagnoses in 2018. New diagnoses in persons aged 35-44 accounted for an additional 19% of all new diagnoses in 2018.
- From 2017 to 2018, the number of new diagnoses declined among all age groups in Louisiana, except among persons aged 35-44 and 45-54.

HIV Diagnoses by Transmission Category

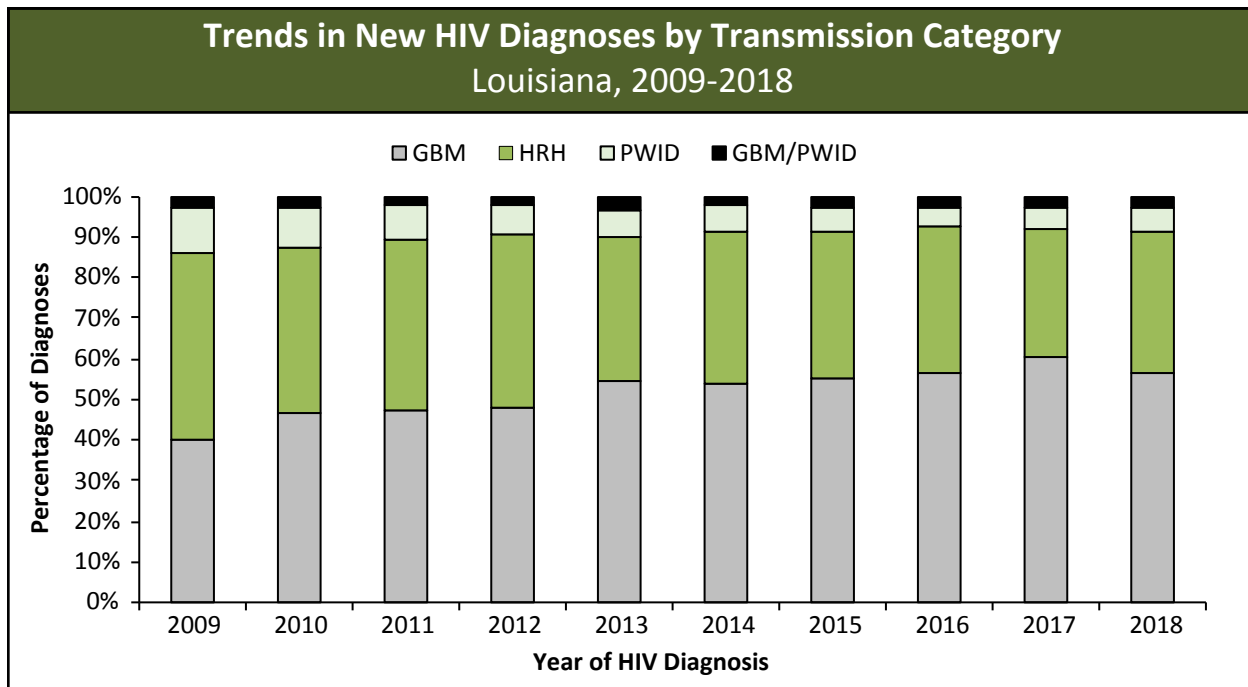
In accordance with the transmission categories used by the CDC, SHHP classifies diagnoses into six transmission categories: gay, bisexual, and other men who have sex with men (GBM), high risk heterosexual contact (HRH), persons who inject drugs (PWID), men who have sex with men and inject drugs (GBM/PWID), perinatal transmission (Pediatric), and cases who received a transfusion or hemophiliac products (Transfusion/Hemophilia). The CDC calculates a risk of GBM for transgender women who report male sex partners because birth sex is collected as male. As illustrated in the graph on the following page, many cases do not have risk information reported or do not meet the transmission category criteria and are labeled as no identified risk (NIR). For all persons diagnosed between 2009 and 2018, 17% do not have a reported risk.

Risk information is difficult to ascertain because individuals may not know how they acquired HIV, their healthcare provider may not feel comfortable collecting the information, or the person may not be willing to share that information possibly due to stigma or fear of discrimination. A person who reports only heterosexual contact is not classified with a transmission category because according to the CDC “persons whose transmission category is classified as high risk heterosexual contact are persons who report specific heterosexual contact with a person known to have, or to be at high risk for, HIV (e.g., an injection drug user).” Due to the large number of NIR cases, SHHP uses a statistical method to assign a mode of transmission for NIR cases called “imputation” (described in the Technical Notes located in the Appendix of this report).

In 2018, SHHP began performing routine matches with surveillance and Ryan White services data in order to ascertain information on risk for PLWH classified as NIR. As a result of these matches, a significant number of PLWH had their risk updated from NIR to HRH. Reported HRH now makes up 32% of diagnoses between 2009-2018. In the 2016 Annual Report and earlier versions, the reported HRH transmission category typically comprised 18% of HIV diagnoses.

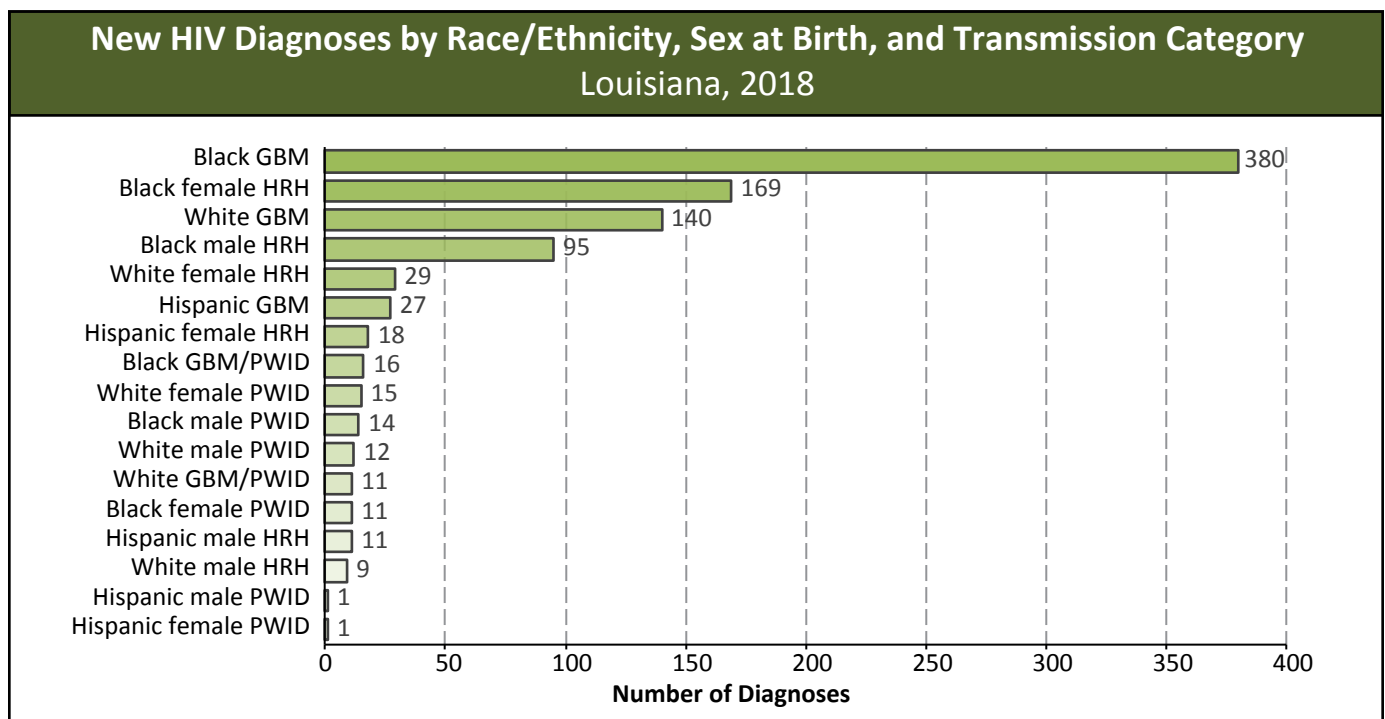


- Of the new diagnoses from 2009 to 2018, 17% do not have a recorded transmission category.
- A risk category is imputed for all cases without a recorded risk; 52% of all cases over the past 10 years were GBM, 38% were HRH, 7% were PWID, and 3% were GBM/PWID. Perinatal diagnoses are not included above as they do not undergo the risk imputation process.
- After assigning a transmission category for all NIR cases through imputation, trends in the percentage of cases for each transmission category can be analyzed. The following graphs and tables use imputed transmission categories unless otherwise noted.



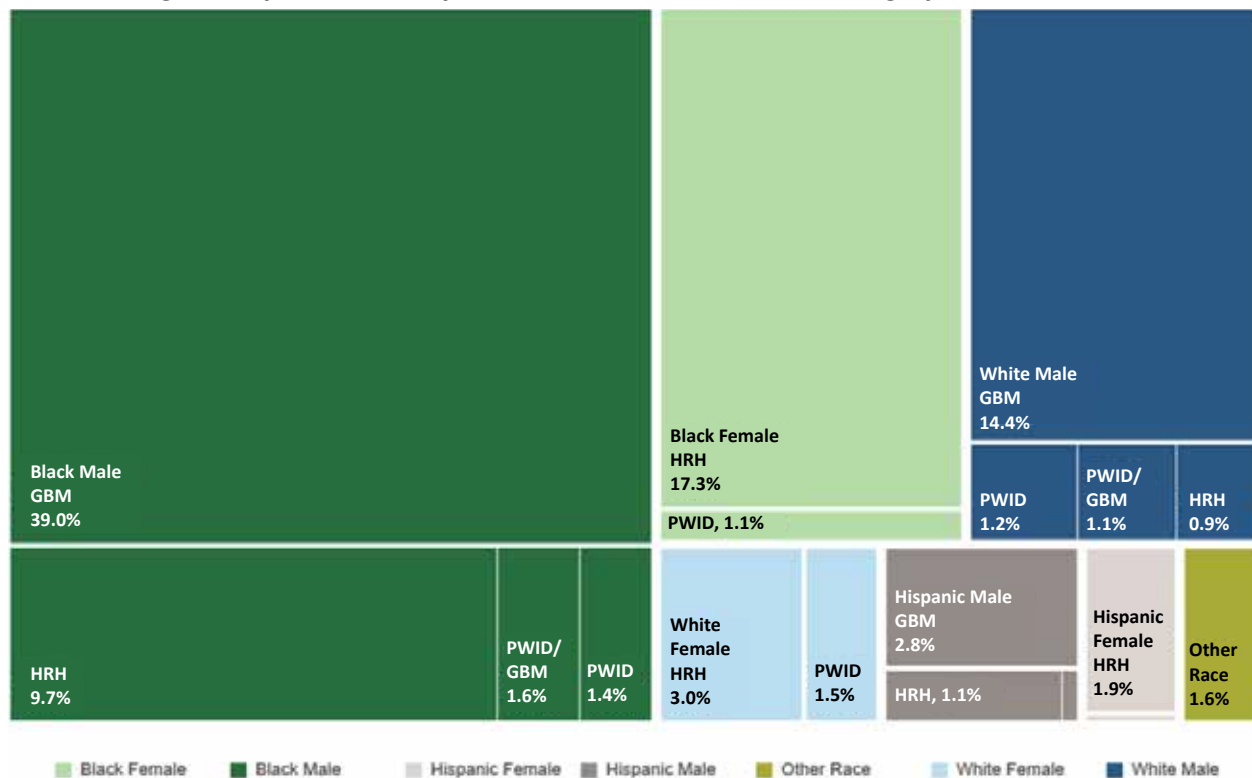
- The percentage of adult HIV diagnoses attributed to GBM has increased significantly from a low of 40% in 2009 to a high of 61% in 2017. Since 2013, the proportion of GBM has consistently comprised over half of the new HIV diagnoses each year.
- Proportions among HRH and PWID have decreased over the past 10 years. The percentage of HRH diagnoses has seen the largest decline, from a high of 46% in 2009 to 35% in 2018. The percentage of diagnoses attributed to PWID has decreased significantly as well from a high of 11% in 2009 to 6% in 2018. The percentage of GBM/PWID diagnoses has remained relatively constant over the past 10 years.

New HIV Diagnoses by Race/Ethnicity, Sex at Birth, and Transmission Category- Louisiana, 2018



- The chart on the previous page highlights the marked disparities in the number of new HIV diagnoses when persons are grouped by their race/ethnicity, sex at birth, and imputed transmission category.
- Among newly diagnosed persons in 2018 in Louisiana, 71% of new diagnoses occurred among three groups: Black gay, bisexual, and other men who have sex with men (GBM), Black high-risk heterosexual women (HRH), and White gay, bisexual, and other men who have sex with men (GBM).
- In 2018, Black GBM accounted for 380 (39%) of Louisiana's 976 new HIV diagnoses. This was more than two times the number of new diagnoses among the second highest group, Black female HRH, who accounted for 169 new HIV diagnoses. The number of Black GBM diagnoses was 2.7 times higher than the 140 new HIV diagnoses among White GBM.

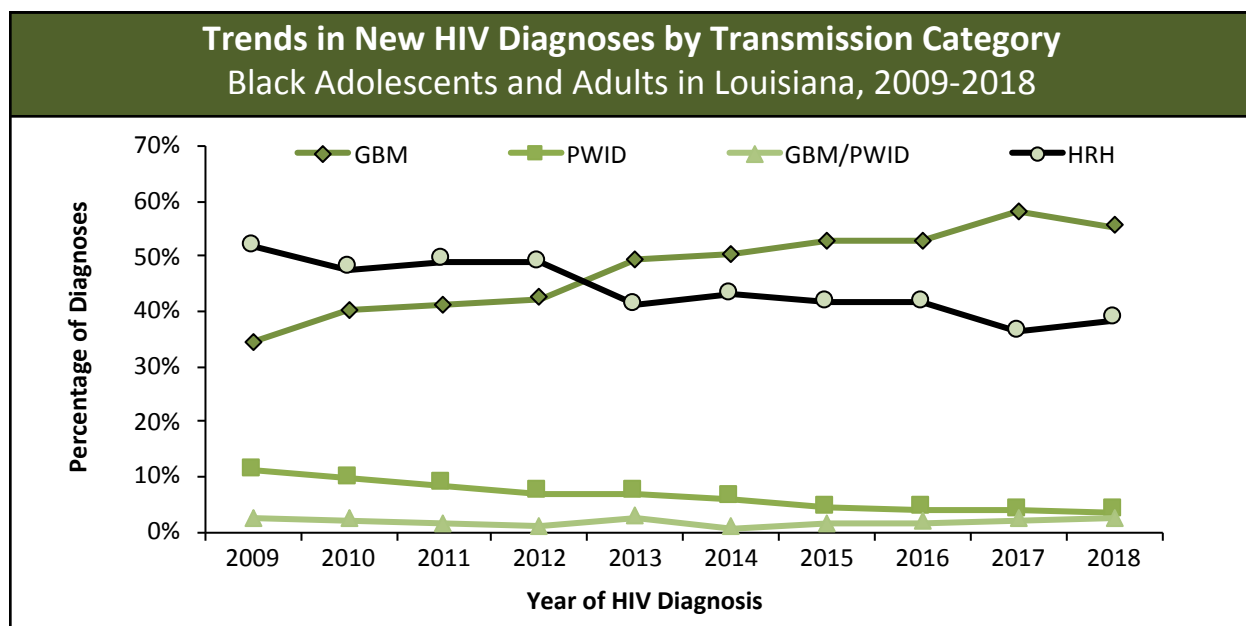
New HIV Diagnoses by Race/Ethnicity, Sex at Birth, and Transmission Category-Louisiana, 2018



*Boxes without a label or percentage indicated < 0.5%

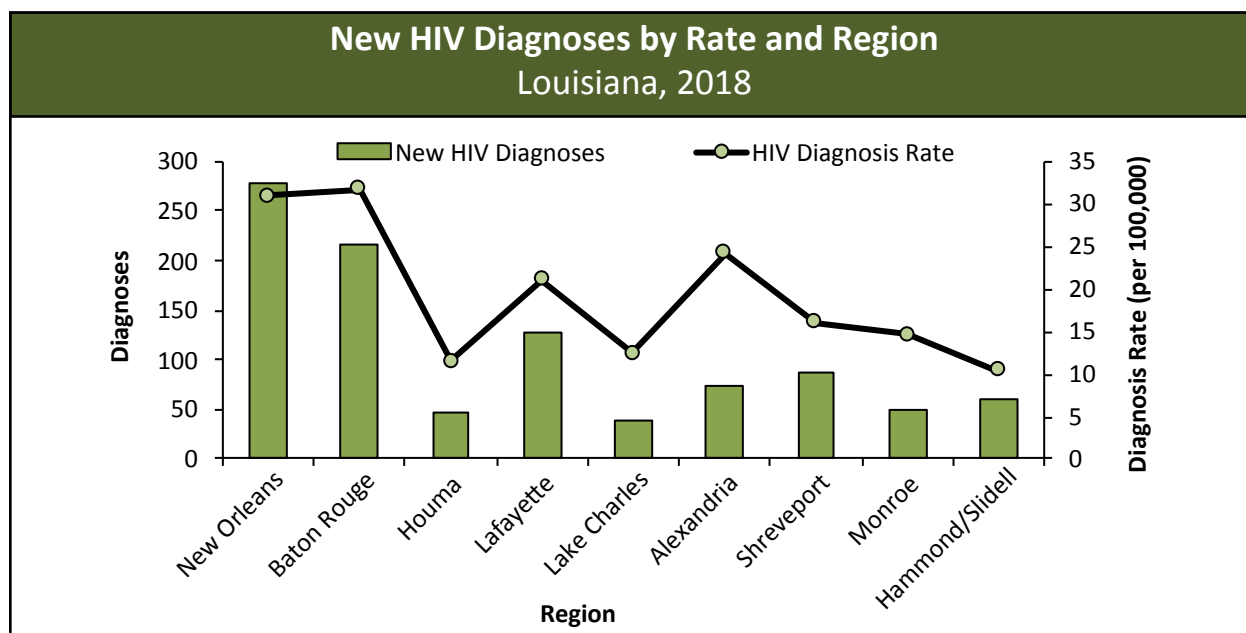
Image created in Tableau 10.3

- The Treemap above is a graphical tool designed here to emphasize disparities in the proportion of new HIV diagnoses by race/ethnicity, sex at birth, and transmission category. In 2018, 57% of all new diagnoses were GBM, 35% HRH, 6% PWID, and 3% GBM/PWID.
- Among males, GBM is the primary mode of transmission accounting for 76% of Louisiana's male HIV diagnoses in 2018. Among females, HRH is the primary mode of transmission comprising 88% of new female HIV diagnoses.
- Black males only comprise 15% of Louisiana's population but account for 52% of all new HIV diagnoses. Black females comprise 17% of Louisiana's population and account for 18% of new HIV diagnoses. In total, Blacks made up 70% of new HIV diagnoses in 2018.



- Historically, the primary mode of transmission for Blacks was HRH contact followed closely by GBM. In 2013, the percentage of new diagnoses among Black GBM surpassed the percentage of diagnoses among HRH and has remained the primary mode of transmission among Blacks to present.
- In 2018, 55% of all new HIV diagnoses among Blacks were GBM and 39% were HRH; 2013 marked a large increase among Black GBM from 42% of diagnoses in 2012 to 49% of diagnoses in 2013.
- From 2009 to 2018, the percentage of HIV diagnoses among Black PWID has declined significantly from 11% to 4%, respectively. The percentage of Black GBM/PWID has remained relatively constant over the past 10 years.

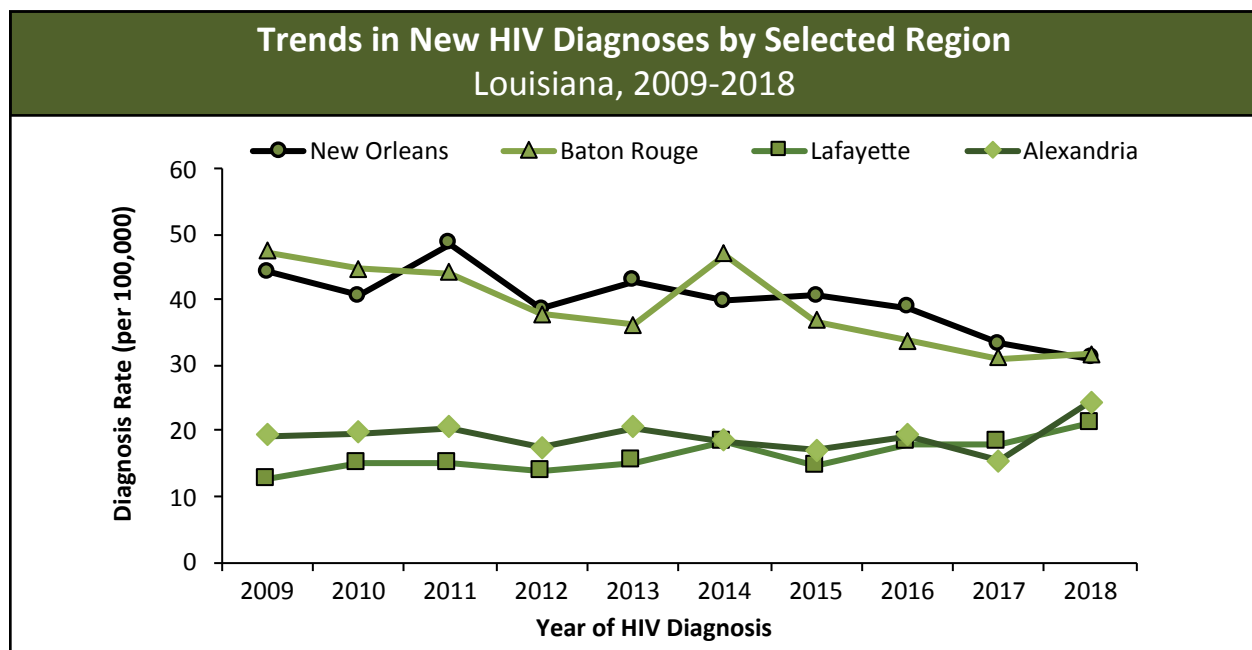
HIV Diagnoses by Public Health Region



- In 2018, the New Orleans region had the highest number of new HIV diagnoses and the second highest diagnosis rate. The Baton Rouge region had the second highest number of new HIV diagnoses, but the highest diagnosis rate.
- The Lake Charles region had the lowest number of new HIV diagnoses and the Hammond/Slidell region had the lowest HIV diagnosis rate.

New HIV Diagnoses by Region and Year Louisiana, 2014-2018										
	2014		2015		2016		2017		2018	
Louisiana	1,211	100%	1,115	100%	1,120	100%	1,015	100%	976	100%
1-New Orleans	354	29%	363	33%	348	31%	299	29%	277	28%
2-Baton Rouge	318	26%	250	22%	230	21%	213	21%	216	22%
3-Houma	52	4%	63	6%	59	5%	42	4%	46	5%
4-Lafayette	110	9%	89	8%	110	10%	110	11%	128	13%
5-Lake Charles	41	4%	47	4%	38	4%	55	5%	38	4%
6-Alexandria	57	5%	52	5%	59	5%	47	5%	73	8%
7-Shreveport	124	10%	127	11%	137	12%	121	12%	86	9%
8-Monroe	89	7%	63	6%	70	6%	59	6%	51	5%
9-Hammond/Slidell	66	6%	61	5%	69	6%	69	7%	61	6%

- Over half of new HIV diagnoses occur in the New Orleans and Baton Rouge regions each year. In 2018, the Lafayette region had the third highest number of new diagnoses followed by the Shreveport region. From 2014 to 2018, the proportion of new diagnoses in the Baton Rouge region fluctuated from a high of 26% in 2014 to a low of 21% in 2016 and 2017. The proportion of new diagnoses in the New Orleans region fluctuated from a high of 33% in 2015 to a low of 28% in 2018.



- The four public health regions in Louisiana with the highest HIV diagnosis rates in 2018 were Baton Rouge, New Orleans, Lafayette, and Alexandria (regions 2, 1, 4, and 6, respectively).
- Over the past 10 years, the New Orleans and Baton Rouge regions have had the highest diagnosis rates in the state. In 2018, the highest HIV diagnosis rate was in the Baton Rouge region (31.7 per 100,000), closely followed by the New Orleans region (30.9 per 100,000). The Alexandria region had the third highest rate in 2018 (24.3 per 100,000) followed by the Lafayette region (21.1 per 100,000). A table with the number of HIV diagnoses for each region, 2009-2018, is located in the Appendix.

Characteristics of Persons Newly Diagnosed with HIV

Characteristics of Persons Newly Diagnosed with HIV Louisiana, 2017-2018				
	Persons First Diagnosed with HIV in 2017		Persons First Diagnosed with HIV in 2018	
	Diagnoses	Percent	Diagnoses	Percent
TOTAL	1,015	100%	976	100%
Gender				
Men	749	74%	704	72%
Women	240	24%	250	26%
Transgender women	26	3%	21	2%
Transgender men	0	0%	1	<1%
Race/Ethnicity				
Black/African American	703	69%	686	70%
Hispanic/Latinx	70	7%	58	6%
White	231	23%	216	22%
Other/Unknown/Multi-race	11	1%	16	2%
Age at HIV Diagnosis				
0-12	0	0%	1	<1%
13-19	51	5%	63	6%
20-24	197	19%	165	17%
25-34	372	37%	349	36%
35-44	173	17%	190	19%
45-54	126	13%	133	14%
55-64	75	7%	62	6%
65+	21	2%	13	1%
Transmission Category*				
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	616	61%	554	57%
Persons Who Inject Drugs (PWID)	54	5%	55	6%
GBM/PWID	29	3%	27	3%
High Risk Heterosexual (HRH)	316	31%	339	35%
Perinatal/Pediatric**	0	0%	1	<1%
Rural/Urban				
Rural	112	11%	113	12%
Urban	903	89%	863	88%

* Transmission category by sex at birth. GBM includes transgender women.

** Transmission category not imputed.

- In 2018, 976 persons were newly diagnosed with HIV, a 4% decrease from 2017.
- In 2018, 72% of new diagnoses were men, 26% were women, 2% were transgender women, and one person was a transgender man.
- Among all HIV diagnoses in 2018, 70% were Black even though Blacks make up only 32% of Louisiana's population, representing a large racial disparity among new HIV diagnoses.
- In 2017 and 2018, the greatest number and proportion of diagnoses were among persons age 25-34 years.
- In 2018, 57% of all new diagnoses were among gay, bisexual, and other men who have sex with men (GBM) and an additional 3% were among GBM who also inject drugs (GBM/PWID).
- In Louisiana, the majority of new diagnoses in 2018 (88%) were among persons residing in an urban area. An urban area is defined as a parish that belongs to a metropolitan statistical area (MSA).

Late HIV Testing in Louisiana

Since improved antiretroviral medications and preventive therapies are now available for people living with HIV, it is important that people are tested for HIV and if positive, are referred to care early so that they can benefit from these treatment advances. However, a significant number of people are not tested for HIV until they are symptomatic. In 2006, the CDC released new recommendations for HIV testing of adults, adolescents and pregnant women in health-care settings. HIV screening is recommended for all patients age 13 and older, unless the patient declines testing (“opts out”). Persons at high risk of HIV should be tested annually. HIV screening is required for all pregnant women as part of their routine prenatal screening tests.

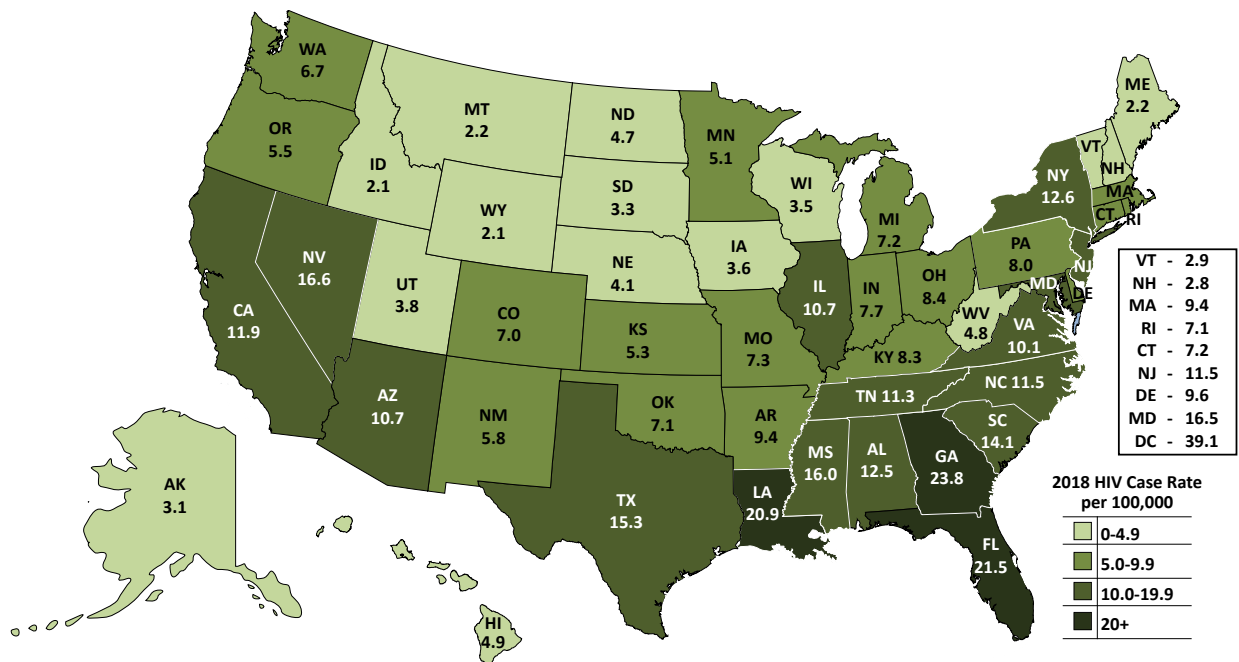
Late HIV Testing Louisiana, 2018									
	Persons Diagnosed with HIV, 2018								
	New HIV Diagnoses	AIDS at Time of Diagnosis*		AIDS Within 3 Months of Diagnosis		AIDS Within 6 Months of Diagnosis		AIDS Within 9 Months of Diagnosis	
		Count	Percent**	Count	Percent**	Count	Percent**	Count	Percent**
Total	976	128	13%	143	15%	162	17%	174	18%
Gender									
Men	704	104	15%	113	16%	126	18%	134	19%
Women	250	22	9%	27	11%	32	13%	36	14%
Transgender women	21	2	10%	3	14%	4	19%	4	19%
Transgender men	1	0	0%	0	0%	0	0%	0	0%
Race/Ethnicity									
Black/African American	686	77	11%	87	13%	102	15%	111	16%
Hispanic/Latinx	58	12	21%	13	22%	13	22%	15	26%
White	216	38	18%	42	19%	46	21%	47	22%
Other/Unknown/Multi-race	16	1	6%	1	6%	1	6%	1	6%
Age at HIV Diagnosis									
0-12	1	0	0%	0	0%	0	0%	0	0%
13-19	63	1	2%	1	2%	2	3%	2	3%
20-24	165	12	7%	13	8%	17	10%	18	11%
25-34	349	38	11%	43	12%	45	13%	49	14%
35-44	190	26	14%	29	15%	35	18%	39	21%
45-54	133	37	28%	40	30%	42	32%	42	32%
55-64	62	12	19%	15	24%	19	31%	21	34%
65+	13	2	15%	2	15%	2	15%	3	23%
Transmission Category									
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	554	77	14%	84	15%	94	17%	100	18%
Persons Who Inject Drugs (PWID)	55	8	15%	8	15%	8	15%	9	16%
GBM/PWID	27	3	11%	3	11%	4	15%	4	15%
High Risk Heterosexual (HRH)	339	40	12%	48	14%	56	17%	61	18%
Perinatal/Pediatric	1	0	0%	0	0%	0	0%	0	0%
Region									
1-New Orleans	277	36	13%	39	14%	44	16%	47	17%
2-Baton Rouge	216	18	8%	19	9%	22	10%	23	11%
3-Houma	46	8	17%	11	24%	12	26%	14	30%
4-Lafayette	128	20	16%	21	16%	22	17%	23	18%
5-Lake Charles	38	1	3%	2	5%	3	8%	3	8%
6-Alexandria	73	13	18%	16	22%	20	27%	21	29%
7-Shreveport	86	10	12%	12	14%	16	19%	19	22%
8-Monroe	51	5	10%	5	10%	5	10%	6	12%
9-Hammond/Slidell	61	17	28%	18	30%	18	30%	18	30%

*If AIDS diagnosis was within 1 month of HIV diagnosis.

**Value calculated as the number of persons in the demographic group sub-category over the total number of new diagnoses in the category (e.g. percentage of males with AIDS at HIV diagnosis = $104/704 * 100 = 15\%$).

- Of the 976 persons diagnosed with HIV in 2018, 13% had an AIDS diagnosis at the time of their initial HIV diagnosis, an additional 2% had an AIDS diagnosis within three months. A total of 18% of persons had an AIDS diagnosis within nine months post HIV diagnosis.
- A greater proportion of men were concurrently diagnosed with HIV and AIDS (15%) than women (9%). Among transgender women, 10% were diagnosed with AIDS at HIV diagnosis. At nine months post HIV diagnosis, 19% of men had an AIDS diagnosis compared to 14% of women and 19% of transgender women.
- Blacks and Whites had lower proportions of AIDS concurrent with HIV diagnosis and AIDS at three, six, and nine months as compared to Hispanic/Latinx.
- Persons 25 years and older had much higher proportions of AIDS at the time of HIV diagnosis and within the following nine months as compared to youth, age 13-24 years.
- The proportion of late testers varies by region throughout the state. The Hammond/Slidell region had the highest percentage of late testers at all time points. The percentage of cases with AIDS at 9 months was greatest in the Houma, Alexandria, and Hammond/Slidell regions.

HIV Rates in the United States (2018)^{ix}



- In November 2019, the CDC released their *HIV Surveillance Report, 2018*; vol 30, which provides national and statewide HIV and AIDS data. In May 2020, the CDC released an updated *HIV Surveillance Report, 2018*; vol 31, which provides updated national and statewide HIV data.
- In the US, 37,515 new HIV diagnoses were reported in 2018, for a national HIV diagnosis rate of 11.5 diagnoses per 100,000.
- In 2018, Louisiana ranked 4th highest in state HIV diagnosis rates (20.9 per 100,000 population) in the US, behind the District of Columbia (39.1 per 100,000), Georgia (23.8 per 100,000), and Florida (21.5 per 100,000).
- In 2018, Louisiana ranked 12th in the nation for the number of new HIV diagnoses, with a decrease of 60 cases from 2017 to 2018.

HIV Among Gay, Bisexual and Other Men Who Have Sex with Men (GBM)

Nationally, GBM account for over half of the one million people living with HIV and two-thirds of all new HIV diagnoses in the US each year. In 2018, GBM accounted for 66% of all new HIV diagnoses across the US and GBM/PWID accounted for an additional 4% of new HIV diagnoses.

SHHP has made a concerted effort to assess the epidemic among GBM to adequately focus prevention efforts. The following table shows the demographics of new HIV diagnoses in 2018 among GBM who may or may not be injection drug users. Transgender women are not included in the table below.

- In 2018, there were 976 new HIV diagnoses in Louisiana; 57% (559) among all GBM (PWID and non-PWID).
- The majority of the new diagnoses among GBM are Black (68%) and under the age of 35 (69%).
- The majority (47%) of GBM were diagnosed in the New Orleans and Baton Rouge regions.
- Among GBM/PWID, 56% were Black and 40% were 35 years and older. 46% of GBM/non-PWID were diagnosed in New Orleans and Baton Rouge regions, while 44% of GBM/PWID were diagnosed in New Orleans and Baton Rouge regions.
- The percentage of all GBM diagnosed with AIDS at HIV diagnosis was 14%.

For more information on HIV disparities in Louisiana in relation to the GBM population, please refer to the introduction of this surveillance report.

Demographics of New HIV Diagnoses Among GBM Louisiana, 2018

	GBM/Non-PWID		GBM/PWID		All GBM*	
	Cases	Percent	Cases	Percent	Cases	Percent
TOTAL	534	100%	25	100%	559	100%
Race/Ethnicity						
Black/African American	364	68%	14	56%	378	68%
Hispanic/Latinx	23	4%	0	0%	23	4%
White	140	26%	11	44%	151	27%
Other/Unknown/Multi-race	7	1%	0	0%	7	1%
Age at HIV Diagnosis						
13-19	49	9%	0	0%	49	9%
20-24	121	23%	2	8%	123	22%
25-34	202	38%	13	52%	215	38%
35-44	79	15%	5	20%	84	15%
45-54	55	10%	4	16%	59	11%
55-64	26	5%	0	0%	26	5%
65+	2	<1%	1	4%	3	1%
Region						
1-New Orleans	156	29%	9	36%	165	30%
2-Baton Rouge	91	17%	2	8%	93	17%
3-Houma	26	5%	0	0%	26	5%
4-Lafayette	90	17%	5	20%	95	17%
5-Lake Charles	23	4%	0	0%	23	4%
6-Alexandria	36	7%	4	16%	40	7%
7-Shreveport	44	8%	3	12%	47	8%
8-Monroe	35	7%	0	0%	35	6%
9-Hammond/Slidell	33	6%	2	8%	35	6%
Late Testers						
AIDS at Time of HIV Diagnosis	75	14%	3	12%	78	14%
AIDS Within 3 Months of HIV Diagnosis	81	15%	3	12%	84	15%
AIDS Within 6 Months of HIV Diagnosis	90	17%	4	16%	94	17%

*All GBM is a cumulative total of GBM/Non-PWID (534) and GBM/PWID (25). Transgender women are excluded from this table.

HIV Among Youth in Louisiana

In 2018, persons age 13-24 years comprised 21% of all new HIV diagnoses in the United States.

- In 2018, there were 976 new HIV diagnoses in Louisiana; 23% (228) were among youth 13-24 years-old.
 - 165 (72%) of the youth diagnoses were among persons age 20-24 years.
- Among all youth, 81% of the new diagnoses were men.
- The majority (75%) of the new diagnoses among youth were Black. The proportion was higher among 13-19 year olds (83%) than it was among 20-24 year olds (73%).
- The majority (78%) of new diagnoses among youth were gay, bisexual, and other men who have sex with men (GBM), followed by high risk heterosexuals (21%).
- Among all youth diagnosed in Louisiana, 48% lived in the New Orleans and Baton Rouge regions at the time of diagnosis.
- The percentage of late testers among youth is much lower than the state's overall population of new diagnoses, 6% and 13%, respectively.

Demographics of New HIV Diagnoses Among Youth Louisiana, 2018

	13-19 Years		20-24 Years		All Youth: 13-24 Years	
	Cases	Percent	Cases	Percent	Cases	Percent
TOTAL	63	100%	165	100%	228	100%
Gender						
Men	51	81%	134	81%	185	81%
Women	9	14%	27	16%	36	16%
Transgender Women	3	5%	4	2%	7	3%
Race/Ethnicity						
Black/African American	52	83%	120	73%	172	75%
Hispanic/Latinx	2	3%	10	6%	12	5%
White	8	13%	31	19%	39	17%
Other/Unknown/Multi-race	1	2%	4	2%	5	2%
Transmission Category						
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	52	83%	125	76%	177	78%
Persons Who Inject Drugs (PWID)	0	0%	1	<1%	1	<1%
GBM/PWID	1	2%	2	1%	3	1%
HRH	10	16%	37	22%	47	21%
Region						
1-New Orleans	22	35%	46	28%	68	30%
2-Baton Rouge	10	16%	31	19%	41	18%
3-Houma	5	8%	7	4%	12	5%
4-Lafayette	12	19%	26	16%	38	17%
5-Lake Charles	4	6%	3	2%	7	3%
6-Alexandria	3	5%	6	4%	9	4%
7-Shreveport	3	5%	20	12%	23	10%
8-Monroe	2	3%	18	11%	20	9%
9-Hammond/Slidell	2	3%	8	5%	10	4%
Late Testers						
AIDS at Time of HIV Diagnosis	1	2%	12	7%	13	6%
AIDS Within 3 Months of HIV Diagnosis	1	2%	13	8%	14	6%
AIDS Within 6 Months of HIV Diagnosis	2	3%	17	10%	19	8%

HIV Among Blacks in Louisiana

In 2018, Blacks made up 43% of all new HIV diagnoses across the United States even though they comprise only 13% of the total US population.

- In 2018, there were 976 new HIV diagnoses in Louisiana; 70% (686) were among Blacks.
- In 2018, 71% of the new diagnoses among Blacks were men.
- Youth, 13-24 years-old, made up 25% of all diagnoses among Blacks. An additional 35% of diagnoses were 25-34 years old.
- The majority (55%) of new diagnoses among Blacks were gay, bisexual, & other men who have sex with men (GBM).
- More than half (54%) of all new diagnoses among Blacks occurred in the New Orleans and Baton Rouge regions.
- The percentage of late testers among Blacks is comparable to the overall population of new diagnoses in Louisiana.

For more information about the HIV disparities in Louisiana in relation to the Black population, please refer to the introduction of this surveillance report.

Demographics of New HIV Diagnoses Among Blacks Louisiana, 2018		
	Cases	Percent
TOTAL	686	100%
Gender		
Men	488	71%
Women	180	26%
Transgender Women	17	2%
Transgender Men	1	<1%
Age at HIV Diagnosis		
0-12	1	<1%
13-19	52	8%
20-24	120	17%
25-34	237	35%
35-44	145	21%
45-54	80	12%
55-64	41	6%
65+	10	1%
Transmission Category		
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	380	55%
Persons Who Inject Drugs (PWID)	25	4%
GBM/PWID	16	2%
HRH	264	38%
Region		
1-New Orleans	188	27%
2-Baton Rouge	188	27%
3-Houma	28	4%
4-Lafayette	69	10%
5-Lake Charles	24	4%
6-Alexandria	39	6%
7-Shreveport	74	11%
8-Monroe	39	6%
9-Hammond/Slidell	37	5%
Late Testers		
AIDS at Time of HIV Diagnosis	77	11%
AIDS Within 3 Months of HIV Diagnosis	87	13%
AIDS Within 6 Months of HIV Diagnosis	102	15%

HIV Among Transgender Persons in Louisiana

Since data for transgender people is not collected uniformly, overall new diagnoses in the United States are not available. According to the Center of Excellence for Transgender Health, there are numerous social and contextual issues that impact the ascertainment of risk behaviors reported among transgender people, including stigma, discrimination, alienation, poverty, and victimization. (<http://transhealth.ucsf.edu/>)

- In 2018, there were 976 new HIV diagnoses in Louisiana; 21 diagnoses were reported as transgender women and 1 diagnosis was reported as a transgender man.
- In 2017, there were 1,015 new HIV diagnoses in Louisiana; 26 diagnoses were reported as transgender women.
- As of December 31, 2018, there were 21,723 persons living with HIV, 323 persons were transgender. Of the 323 transgender people living with HIV in Louisiana, 99% (321) were transgender women.
- Between 2017 and 2018, 79% of new HIV diagnoses among transgender women and men were Black. Among transgender persons living with HIV at the end of 2018, 84% were Black.
- Between 2017 and 2018, 73% of the diagnoses among transgender women were 20-29 years old.
- The majority (90%) of transgender persons living with HIV reported engaging in sex with men; 8% of transgender persons reported engaging in sex with men and injection drug use.
- Between 2017 and 2018, 58% of new HIV diagnoses among transgender women and men occurred in the New Orleans and Baton Rouge regions. At the end of 2018, 49% of all transgender individuals living with HIV lived in the New Orleans region and an additional 22% in the Baton Rouge region.

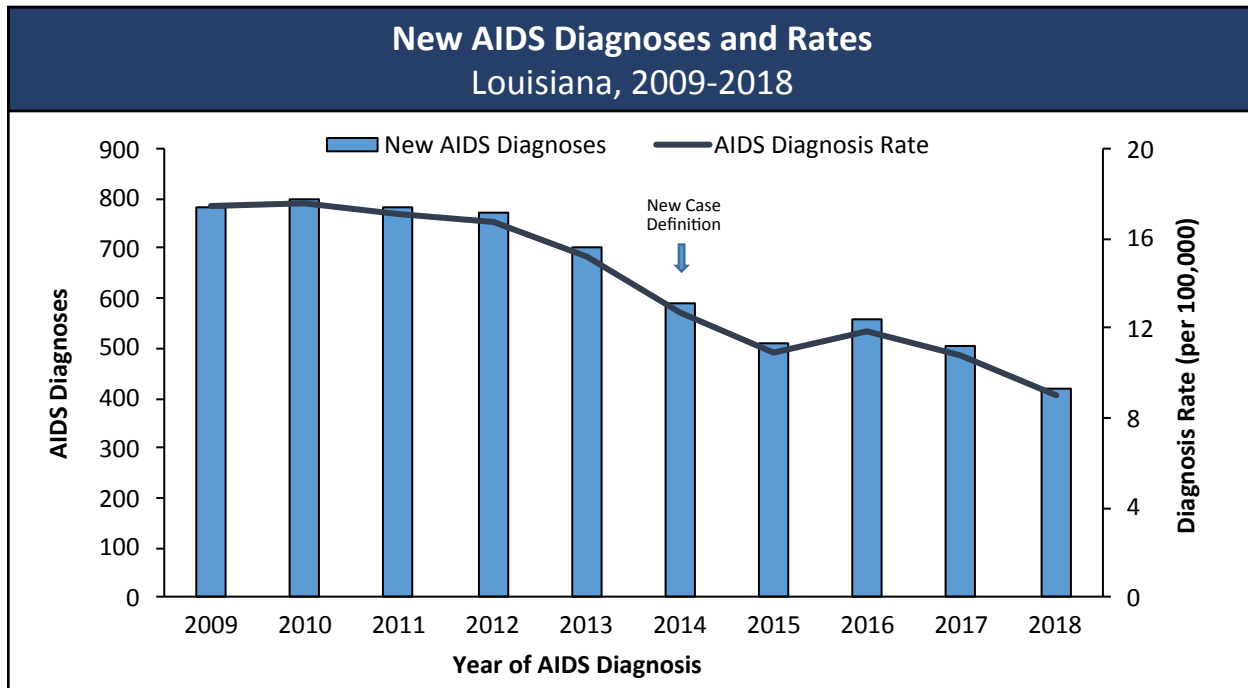
For more information about the HIV disparities in Louisiana in relation to the transgender population, please refer to the introduction of this surveillance report.

Demographics of New HIV Diagnoses and Persons Living with HIV Among Transgender Persons Louisiana, 2017 and 2018

	New HIV Diagnoses				Persons Living with HIV	
	2017		2018		As of Dec. 31, 2018	
	Cases	Percent	Cases	Percent	Cases	Percent
TOTAL	26	100%	22	100%	323	100%
Transgender Women	26	100%	21	95%	321	99%
Transgender Men	0	0%	1	5%	2	1%
Race/Ethnicity						
Black/African American	20	77%	18	82%	271	84%
Hispanic/Latinx	3	11%	4	18%	20	6%
White	3	11%	0	0%	27	8%
Other/Unknown/Multi-race	0	0%	0	0%	5	2%
Age at HIV Diagnosis					Current Age	
13-19	2	8%	3	14%	3	1%
20-24	7	27%	4	18%	29	9%
25-29	11	42%	13	59%	84	26%
30-34	4	15%	2	9%	61	19%
35-39	1	4%	0	0%	64	20%
40-44	1	4%	0	0%	25	8%
45+	0	0%	0	0%	57	18%
Transmission Category						
Sex with Men	24	92%	19	86%	284	88%
Persons Who Inject Drugs (PWID)	0	0%	0	0%	2	1%
Sex with Men & PWID	2	8%	2	9%	32	10%
Sex with Women	0	0%	1	5%	5	2%
Region					Current Region	
1 - New Orleans	9	35%	10	45%	158	49%
2 - Baton Rouge	8	31%	1	5%	71	22%
3 - Houma	2	8%	1	5%	10	3%
4 - Lafayette	1	4%	1	5%	13	4%
5 - Lake Charles	0	0%	2	9%	12	4%
6 - Alexandria	1	4%	0	0%	8	2%
7 - Shreveport	1	4%	5	23%	19	6%
8 - Monroe	1	4%	1	5%	12	4%
9 - Hammond/Slidell	3	12%	1	5%	20	6%

10-Year Trends in New AIDS Diagnoses (2009-2018)

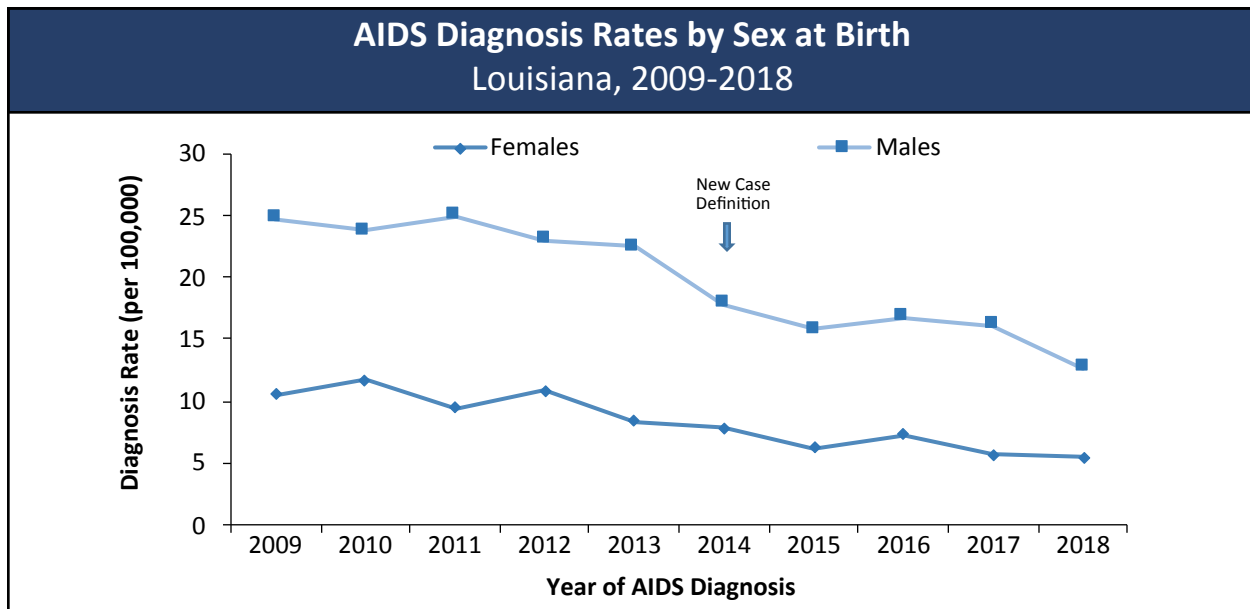
AIDS diagnoses are the number of individuals diagnosed with AIDS within a given time period. The surveillance case definition for an AIDS diagnosis is a CD4 cell count <200 or the diagnosis of an opportunistic infection (OI) such as Kaposi Sarcoma or wasting syndrome. Once a person is diagnosed with AIDS, they remain categorized as AIDS even if their CD4 count rises above 200 or they are cured of their OI. The number of AIDS diagnoses has been collected since the beginning of the epidemic, both nationally and in Louisiana. AIDS diagnoses are useful for highlighting issues regarding access to testing, medical care, medication and treatment adherence. *In 2014, the AIDS surveillance case definition was altered to no longer define an AIDS case based on CD4 percentage. This change in case definition only impacts AIDS cases diagnosed after 2013.*



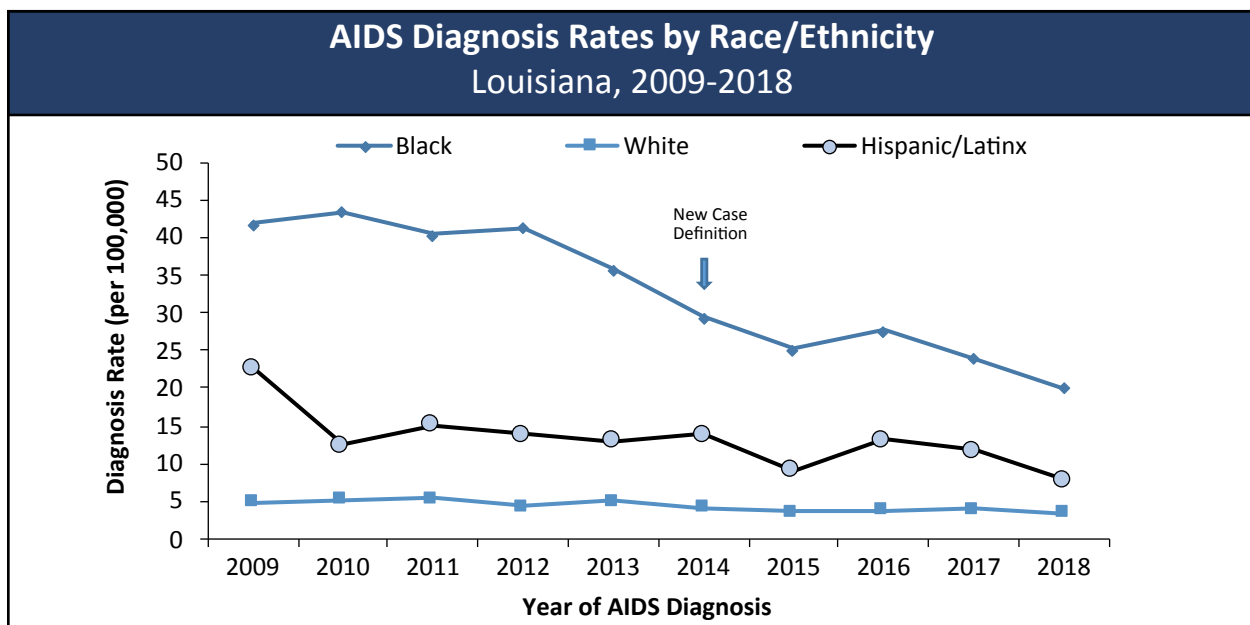
- Since 1997, the number of new AIDS diagnoses each year in Louisiana has remained below 1,000. Over the past 10 years, the number of new AIDS diagnoses has fluctuated from a high of 798 diagnoses in 2010 to a low of 419 AIDS diagnoses in 2018. The steep decrease between 2013 and 2014 was in part due to the new AIDS surveillance case definition. The number of new AIDS diagnoses further declined from 2014 to 2015 under the same case definition.
- In 2018, the AIDS diagnosis rate for Louisiana was 9.1 per 100,000 which was almost double the national AIDS diagnosis rate of 5.2 per 100,000.

AIDS diagnoses and deaths in the United States

In June 1981, the first cases of what would later be diagnosed as AIDS were reported in the US. During the 1980s, there was a rapid increase in the number of AIDS diagnoses and deaths in persons with AIDS. Cases peaked in 1993 with the expansion of the AIDS case definition. The most dramatic drop in both new diagnoses and deaths began in 1996, with the widespread use of combination antiretroviral therapy. Since 2000, the annual numbers of AIDS diagnoses have been relatively constant, with 17,032 new AIDS diagnoses in 2018. The CDC reports that since the beginning of the epidemic through the end of 2018, approximately 1,254,576 people have been diagnosed with AIDS in the US. By region, the South has the greatest number of people living with AIDS, AIDS deaths, and new AIDS diagnoses.

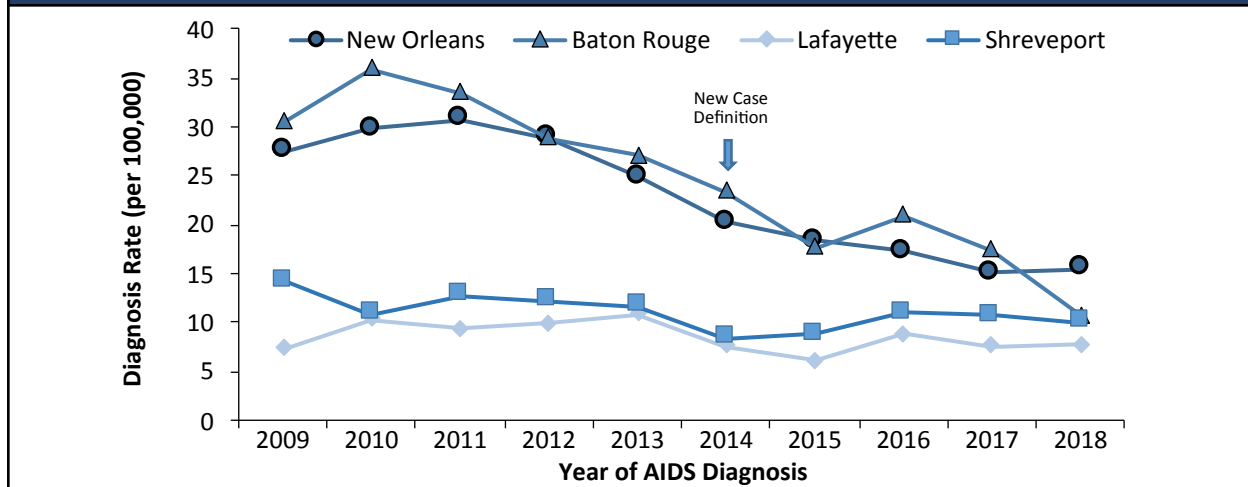


- Under the previous case definition, the AIDS diagnosis rate for males and females decreased slightly from 2008 to 2013.
- From 2013 to 2014, the new case definition led to a 20% decrease in the male AIDS diagnosis rate but the female rate was relatively unchanged.
- From 2017 to 2018, the AIDS diagnosis rate decreased for both males and females. The male AIDS diagnosis rate (12.7 per 100,000) was over two times greater than the female AIDS diagnosis rate (5.5 per 100,000) in 2018.



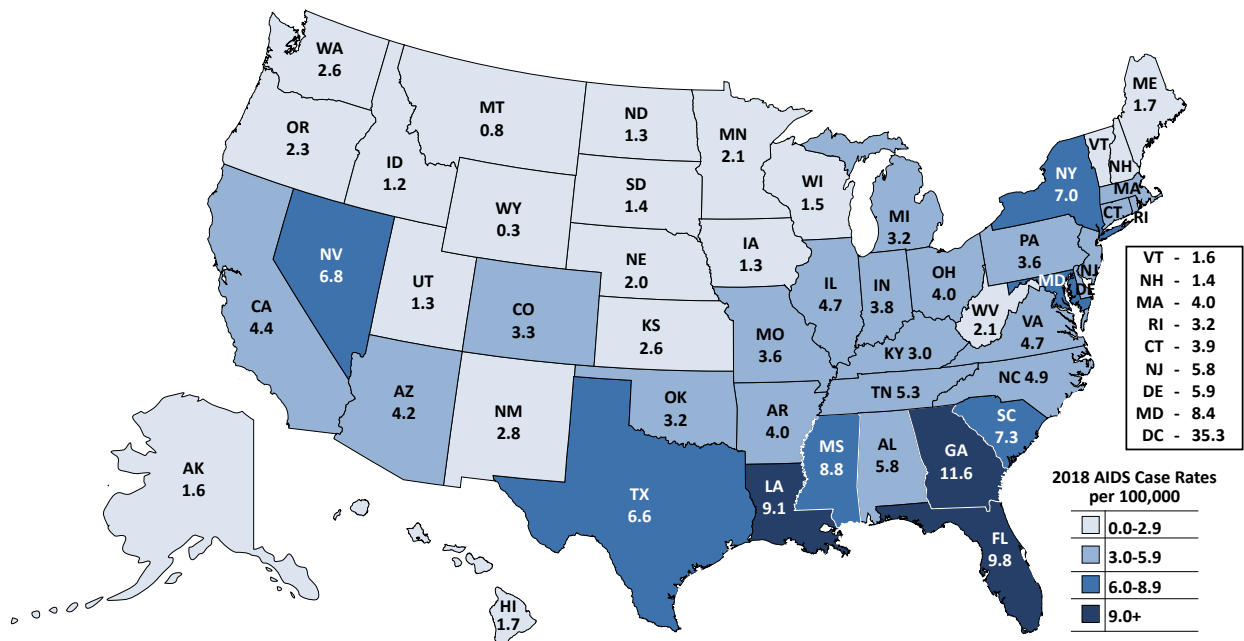
- In 2018, the AIDS diagnosis rate for Blacks (20.1 per 100,000 Blacks) was 2.6 times greater than for Hispanics/Latinx (7.8 per 100,000 Hispanics/Latinx) and nearly six times greater than for Whites (3.4 per 100,000 Whites).
- From 2017 to 2018, the AIDS diagnosis rate decreased among Blacks by 16%, but still remained disproportionately high. The AIDS diagnosis rates among Whites and Hispanics/Latinx decreased from 2017 to 2018, 15% and 34%, respectively.

AIDS Diagnosis Rates by Selected Region Louisiana, 2009-2018



- Over the past 10 years, the Baton Rouge and New Orleans regions have had the two highest AIDS diagnosis rates among the nine public health regions. In 2018, the New Orleans region had the highest AIDS diagnosis rate (15.5 per 100,000).
- In recent years, the AIDS diagnosis rate has been on a downward trend in the Baton Rouge and New Orleans regions. From 2010 to 2018, the AIDS diagnosis rate in the Baton Rouge region decreased by 70% and the rate in the New Orleans region decreased by 48%.
- The AIDS diagnosis rates for the Lafayette and Shreveport regions were very similar over the past ten years. In 2018, the AIDS rates in Lafayette and Shreveport were 7.8 per 100,000 and 10.1 per 100,000, respectively.

AIDS Rates in the United States (2018)^{ix}



- In the US, 17,032 new AIDS cases were reported in 2018, for a national AIDS diagnosis rate of 5.2 per 100,000 population.
- In 2018, Louisiana ranked 4th highest in state AIDS diagnosis rates (9.1 per 100,000) and 12th in the number of AIDS diagnoses in the US, according to the CDC *Preliminary HIV Surveillance Report, 2018*; vol. 30. Louisiana's AIDS rate was almost double the national rate.

Characteristics of Persons Newly Diagnosed with AIDS

Characteristics of Persons Newly Diagnosed with AIDS Louisiana, 2017-2018				
	Persons First Diagnosed with AIDS in 2017		Persons First Diagnosed with AIDS in 2018	
	Diagnoses	Percent	Diagnoses	Percent
TOTAL	505	100%	419	100%
Gender				
Men	359	71%	281	67%
Women	136	27%	130	31%
Transgender Women	10	2%	8	2%
Race/Ethnicity				
Black/African American	361	71%	302	72%
Hispanic/Latinx	29	6%	19	5%
White	110	22%	93	22%
Other/Unknown/Multi-race	5	1%	5	1%
Age at AIDS Diagnosis				
0-12	3	1%	0	0%
13-19	4	1%	4	1%
20-24	47	9%	32	8%
25-34	163	32%	142	34%
35-44	112	22%	105	25%
45-54	96	19%	84	20%
55-64	55	11%	42	10%
65+	25	5%	10	2%
Transmission Category*				
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	255	50%	206	49%
Persons Who Inject Drugs (PWID)	41	8%	31	7%
GBM/PWID	13	3%	11	3%
High Risk Heterosexual (HRH)	190	38%	168	40%
Transfusion/Hemophilia**	1	<1%	1	<1%
Perinatal/Pediatric**	5	1%	2	<1%
Rural/Urban				
Rural	46	9%	45	11%
Urban	459	91%	374	89%

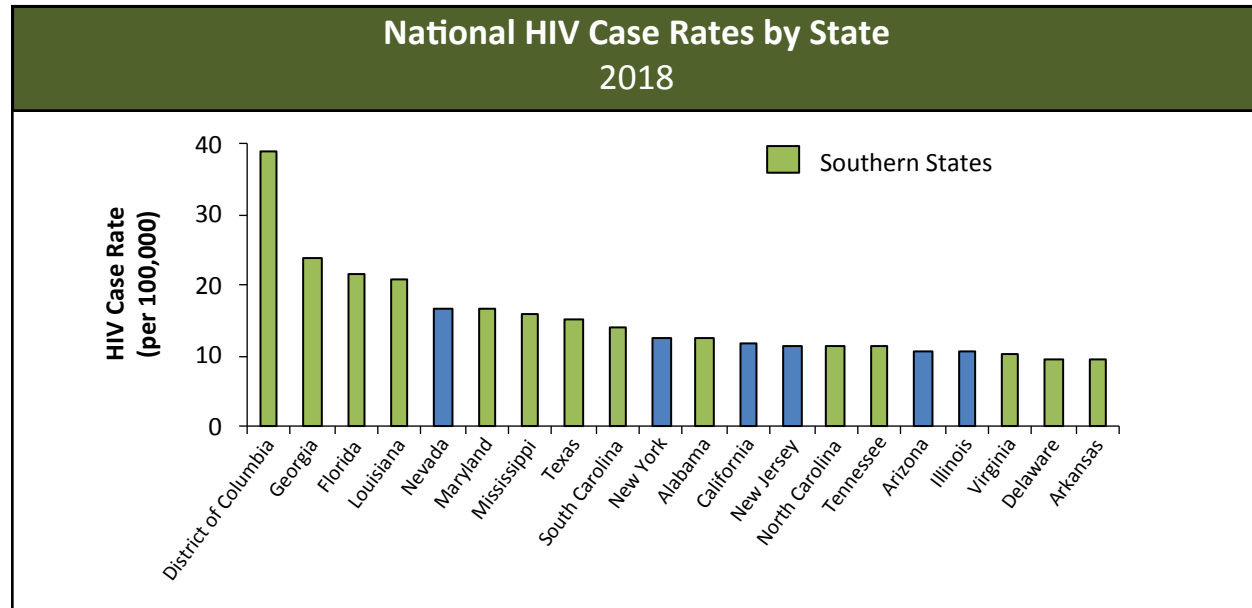
* Transmission category by sex at birth. GBM includes transgender women.

** Transmission category not imputed.

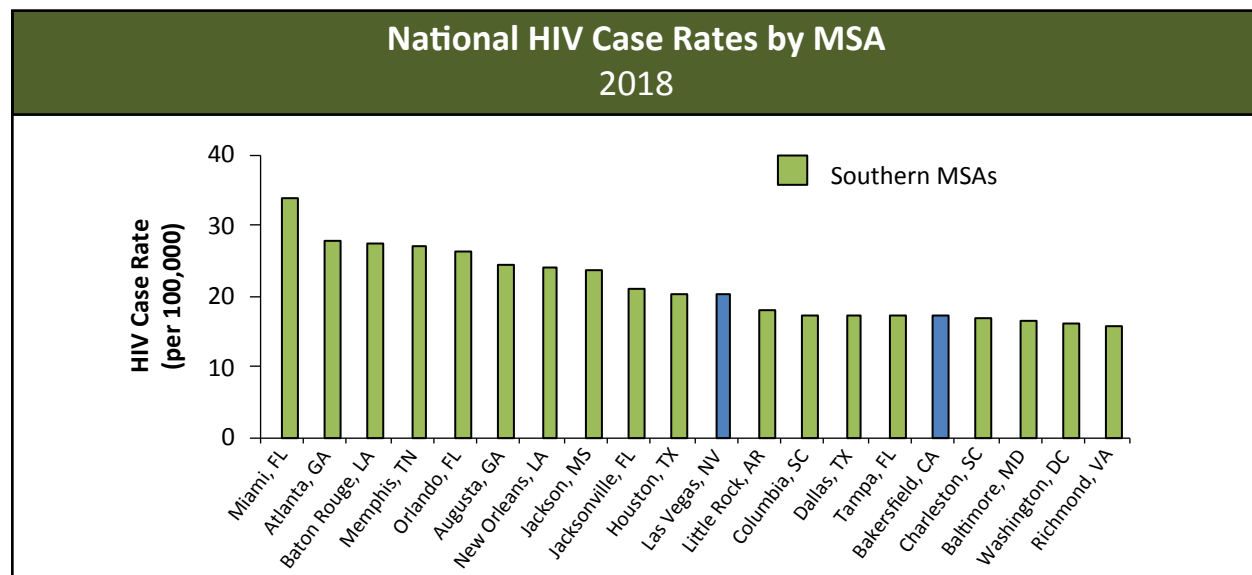
- In 2018, there were 419 new AIDS diagnoses in Louisiana; a 17% decrease from 2017.
- In 2018, men accounted for 67% of all new AIDS diagnoses.
- In 2018, 72% of all AIDS diagnoses were among Blacks.
- In 2017 and 2018, the greatest number of new AIDS diagnoses was among 25-34 year-olds followed by 35-44 year olds.
- In 2017 and 2018, the greatest number and percentage of new AIDS diagnoses were among gay, bisexual, and other men who have sex with men (GBM), followed by high risk heterosexuals (HRH).
- The majority of AIDS diagnoses occurred in urban areas in 2017 (91%) and 2018 (89%).

HIV and AIDS in the South

Southern states are disproportionately impacted by HIV and AIDS. Seventeen states are included in the southern region of the United States: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.^{ix} National HIV rates presented in the graphs below are from the CDC's updated *HIV Surveillance Report, 2018*; vol 31 released in May 2020. National AIDS rates presented in the graphs are from the CDC *Preliminary HIV Surveillance Report, 2018*; vol 30, released November 2019.

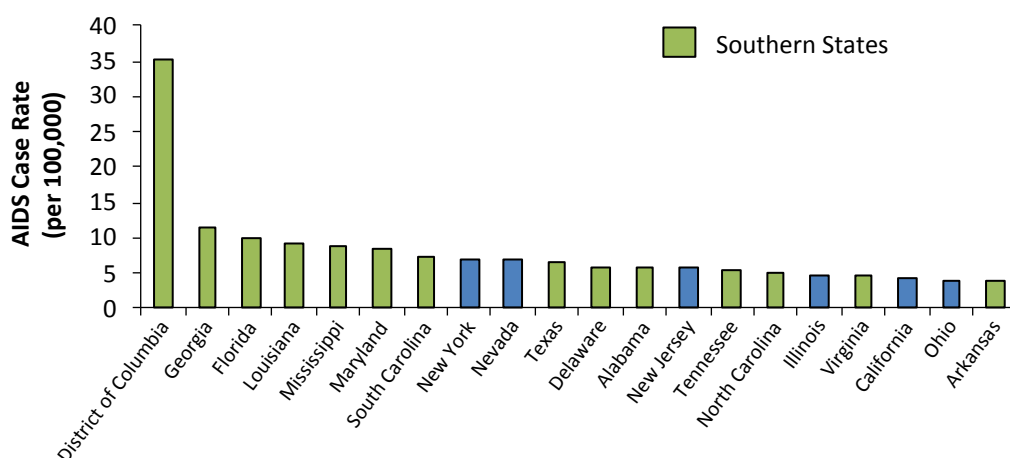


- In 2018, southern states represented 38% of the US population but 52% of new HIV diagnoses. The District of Columbia, when included as a state, is restricted to its borders.
- Of the 20 states that had the highest HIV diagnosis rates in 2018, 14 (70%) were in the South.



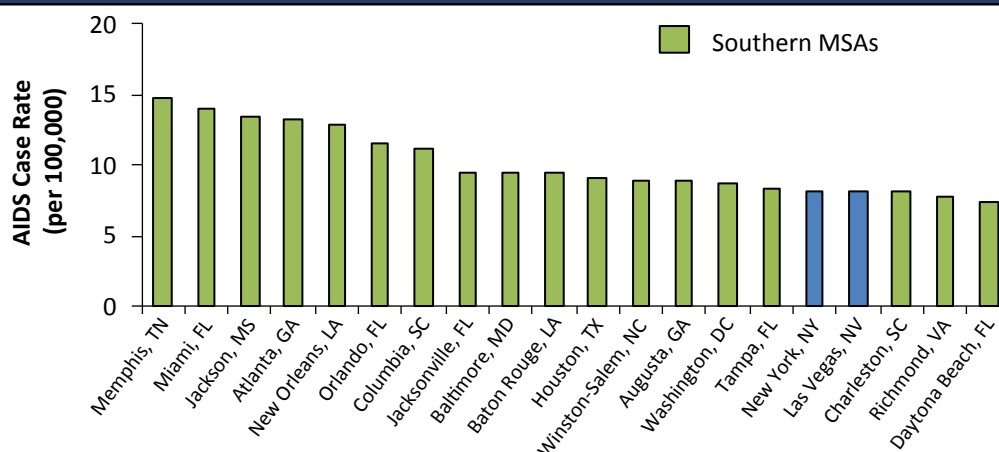
- Of the 20 metropolitan areas that had the highest HIV diagnosis rates in 2018, 18 (90%) were in the South. According to the CDC, the Baton Rouge metro area ranked 3rd and the New Orleans metro area ranked 7th in HIV diagnosis rates in 2018 among metropolitan areas in the US with more than 500,000 people. Washington, DC, when included as a MSA, includes parts of neighboring states resulting in a greater baseline population and a ranking of 19th.

National AIDS Case Rates by State 2018



- Of the 20 states that had the highest AIDS diagnosis rates in 2018, 14 (70%) were in the South.

National AIDS Case Rates by MSA 2018



- Of the 20 metropolitan statistical areas that had the highest AIDS diagnosis rates in 2018, 18 (90%) were in the South. According to the CDC, the New Orleans metro area ranked 5th and the Baton Rouge metro area ranked 10th in AIDS diagnosis rates in 2018 among metropolitan areas in the US with more than 500,000 people.

2018 AIDS and HIV National Rankings*

	LOUISIANA		NEW ORLEANS MSA		BATON ROUGE MSA	
	Value	Rank	Value	Rank	Value	Rank
AIDS Case Rate**	9.1	4th	12.9	5th	9.4	10th
AIDS Case Count**	423	12th	164	20th	78	41st
HIV Case Rate†	20.9	4th	24.2	7th	27.3	3rd
HIV Case Count†	973	12th	307	26th	227	35th

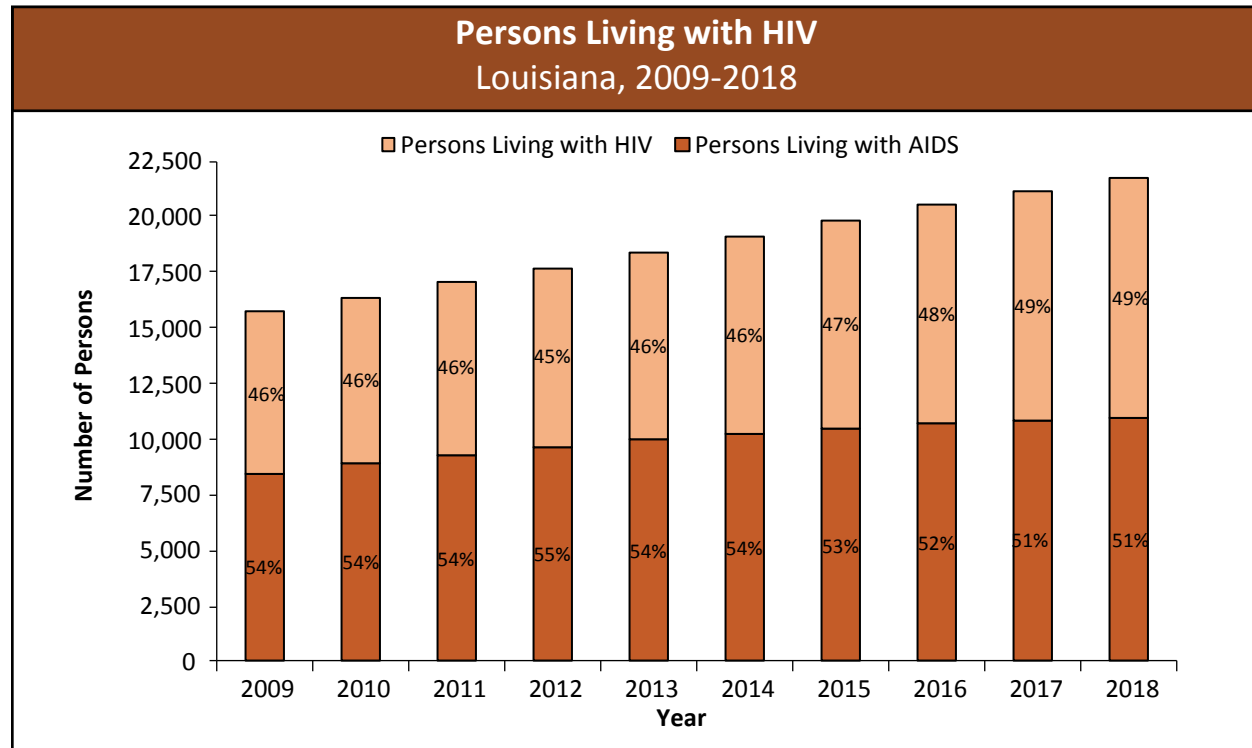
* Rate per 100,000

** AIDS case rate, count, and national rankings from the CDC *HIV Surveillance Report, 2018 (Preliminary)*; vol. 30.

† HIV case rate, count, and national rankings from the CDC *HIV Surveillance Report, 2018 (Updated)*; vol. 31.

Persons Living in Louisiana with HIV (Prevalence)

Prevalence is a measure describing the number of persons living with HIV at a certain point in time and includes people living with all stages of HIV or AIDS. Prevalence is the accumulation of diagnoses for people who are still living with the disease. Prevalence numbers and rates are important for ascertaining the burden of HIV on health care systems, allocating resources and monitoring trends over time. Reported HIV diagnosis data provide only the minimum estimate of the number of people living with HIV, since persons who have not been tested and those who test anonymously are not included. The CDC now estimates that approximately one in seven people living with HIV in the United States is not aware of his or her HIV status.^x



- Since the beginning of the epidemic, the number of persons living with HIV in Louisiana has increased every year. There was a decrease from 2004 to 2005 due to the dislocation of a large number of persons from the New Orleans metropolitan area who left Louisiana following Hurricane Katrina in August 2005. Since then, the number of persons living with HIV has far surpassed pre-Katrina numbers.
- At the end of 2018, 21,723 persons were known to be living with HIV in Louisiana, 10,982 (51%) of whom had received an AIDS diagnosis.

Persons living with HIV in the United States

In 2018, an estimated 1,173,900 persons were living with HIV in the United States, including 161,800 (14%) persons who were living with undiagnosed HIV. Of these 1.2 million people, gay and bisexual men of all races, Blacks, and Hispanic/Latinx were most heavily affected.^{xi} There has been a steady increase in the US in the number of persons living with HIV, which is expected, due to the widespread use of antiretroviral treatment and the continued development of new antiretroviral regimens. In the US, more people acquire HIV than die from the disease each year.

Historically, it was estimated that 25% of HIV-positive persons were undiagnosed or were unaware of their status. Since 2010 when the CDC released a new undiagnosed estimate of 17.2%, the estimate has continued to decrease to a low of 13.8% in 2018 as reported by the CDC.^{xii}

Characteristics of Persons Living with HIV in Louisiana and Cumulative Louisiana Cases

Characteristics of Persons Living with HIV and Cumulative Cases Louisiana, 2018				
	Persons Living with HIV as of 12/31/2018		Cumulative Persons with HIV as of 12/31/2018*	
	Number	Percent	Number	Percent
TOTAL	21,723	100%	39,239	100%
Gender				
Men	15,131	70%	28,645	73%
Women	6,269	29%	10,222	26%
Transgender Women	321	1%	369	1%
Transgender Men	2	<1%	3	<1%
Race/Ethnicity				
Black/African American	14,928	69%	26,038	66%
Hispanic/Latinx	1,028	5%	1,323	3%
White	5,465	25%	11,428	29%
Asian	79	<1%	109	<1%
Multi-race	172	1%	270	1%
Other/Unknown	51	<1%	71	<1%
Age Group	Age in 2018		Age at Diagnosis	
0-12	36	<1%	358	1%
13-19	142	1%	2,000	5%
20-24	839	4%	5,642	14%
25-34	4,364	20%	13,536	34%
35-44	5,083	23%	10,236	26%
45-54	5,359	25%	5,170	13%
55-64	4,476	21%	1,788	5%
65+	1,424	7%	509	1%
Transmission Category**				
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	10,272	47%	17,684	45%
Persons Who Inject Drugs (PWID)	1,995	9%	5,911	15%
GBM/PWID	1,028	5%	2,647	7%
High Risk Heterosexual (HRH)	8,170	38%	12,157	31%
Transfusion/Hemophilia†	56	<1%	479	1%
Perinatal/Pediatric†	202	1%	361	1%
Rural/Urban				
Rural	2,141	10%	3,630	9%
Urban	19,582	90%	35,609	91%

* Cumulative persons reflects the total number of HIV-infected persons diagnosed in Louisiana, including those who have died, regardless of cause of death.

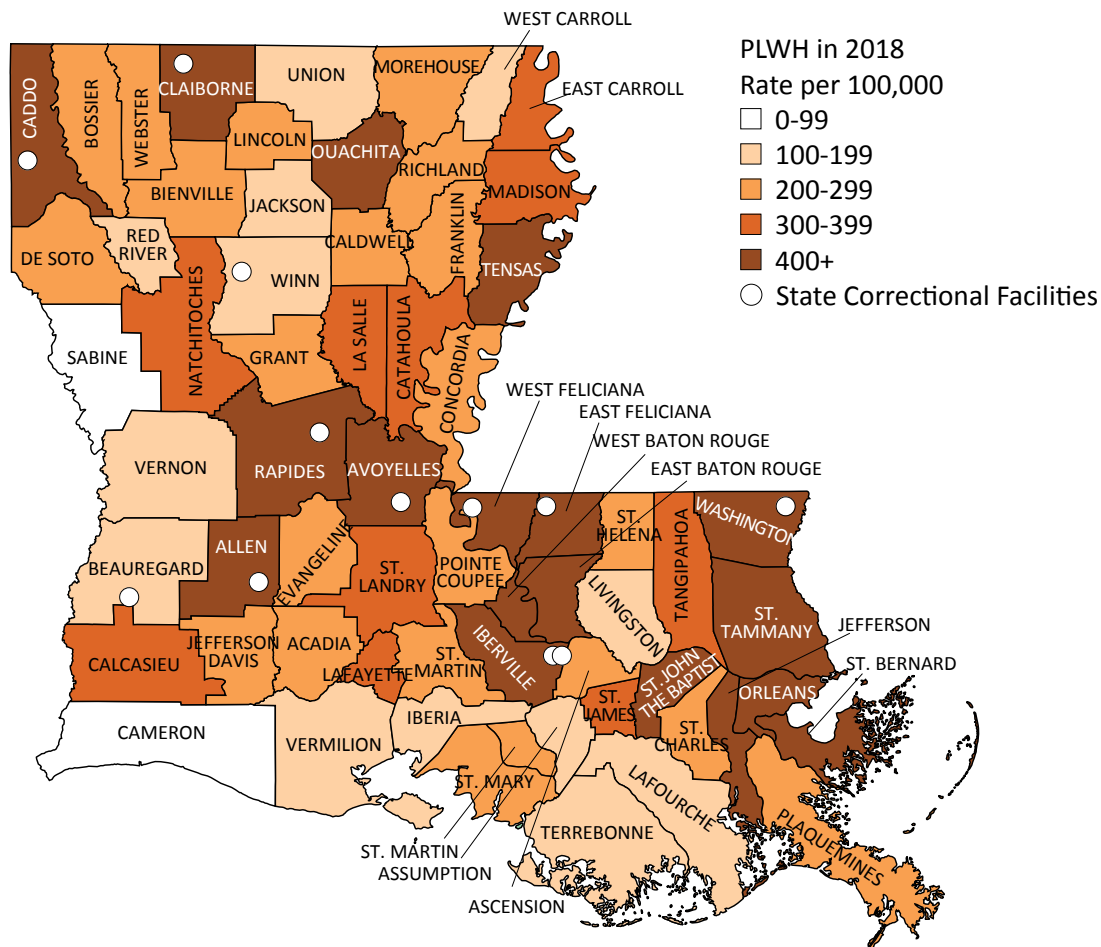
** Transmission category by sex at birth. GBM includes transgender women.

† Transmission category not imputed.

- At the end of 2018, there were 21,723 people with HIV living in Louisiana. These persons may have originally been diagnosed in other states or countries but in 2018 they had a current residence in Louisiana.
- In 2018, men made up 70% of all people living with HIV in Louisiana.

- Although Blacks only made up 32% of Louisiana's population in 2018, they accounted for 69% of all people living with HIV.
- Over a quarter of all persons living with HIV are under the age of 35, 23% are between 35-44 years of age, and 52% are 45 and older.
- Nearly half (47%) of all people living with HIV are GBM, 38% are HRH, 9% are PWID, and 5% are GBM/PWID. Less than 1% of people living with HIV in Louisiana acquired HIV via blood transfusion or from the use of hemophiliac products and 1% acquired HIV through perinatal transmission.
- The majority of people living with HIV live in urban areas of the state (90%).

Persons Living with HIV (PLWH), by Parish Rate per 100,000, Louisiana, 2018



- The above map illustrates the geographic distribution of persons living with HIV in the state. There are persons living with HIV in every parish in Louisiana. All persons living with HIV in Louisiana are included in the analyses, regardless of their type of residence (correctional facility, nursing home, homeless shelter, etc.).
- At the end of 2018, 17 parishes had a prevalence rate greater than or equal to 400 per 100,000 and an additional 10 parishes had a rate between 300 and 399 per 100,000.
- Many of the parishes with disproportionate prevalence rates have state correctional facilities that are home to persons living with HIV.
- Although the majority of persons living with HIV reside in urban areas, 10% live in rural parishes.

National HIV Behavioral Surveillance Survey 2016-2018

Initiated in 2003, the National HIV Behavioral Surveillance (NHBS) system collects behavioral data among people at high risk for HIV infection in the United States. The rationale for this surveillance system is to “provide ongoing, systematic collection of data on behaviors related to HIV acquisition”.^{xiii} New Orleans was among 20 US metropolitan areas conducting NHBS in 2018. This study collects data from three target populations: gay, bisexual, and other men who have sex with men (GBM), persons who inject drugs (PWID), and heterosexuals living in areas at high risk for HIV/AIDS (HET), each in discrete annual cycles. The NHBS survey instrument contains items regarding sexual behavior, substance use, and HIV testing behaviors. In 2007, NHBS added anonymous HIV testing of participants, followed by hepatitis C testing in the 2012 study cycle. During each annual cycle, NHBS staff conduct ethnographic research and in-depth surveys, which include locally developed questions concerning key issues for each target population.

Because many of the behaviors surveyed are highly stigmatized or illegal, the populations are considered hard to reach using traditional probability-based sampling methods. Each cycle utilizes specialized sampling methods for recruitment of participants in order to yield the most valid population estimates. NHBS-GBM uses a targeted venue-based time/space sampling procedure while NHBS-HET and NHBS-PWID uses a modified chain referral approach known as respondent-driven sampling.

Heterosexuals living in high risk areas (2016 Study Cycle)

Participants are recruited during the HET cycle using an RDS procedure similar to PWID cycle; however, the initial recruits or “seeds” are individuals residing in areas at increased HIV risk and poverty. Key qualitative and quantitative findings from the New Orleans NHBS surveillance during 2016 are presented below:

- The majority of participants during the HET cycle (94%) had been tested for HIV in their lifetime. This was an increase from the 2013 cycle where only 84% of respondents had ever been tested. Of those, 25% reportedly received their last HIV test at public health clinic, followed by the hospital (15%), or a correctional facility (12%).
- Only 29% of the HET sample had been tested for gonorrhea, chlamydia, or syphilis in the past 12 months. Of those who had been tested for gonorrhea, 10% self-reported a positive result. Of those who had been tested for chlamydia, 18% self-reported a positive result. Of those who had been tested for syphilis, 8% self-reported a positive result.

Gay, bisexual and other men who have sex with men (2017 Study Cycle)

Gay, bisexual, and other men who have sex with men (GBM) are recruited using a venue-based time-space sampling procedure, where individuals are approached within venues that are attended by GBM.

- HIV testing is high within the GBM community with 96.9% having been tested for HIV in their lifetime. Of those, 50.8% reportedly received their last HIV test at a public health clinic (26.9%), or a private health clinic (23.6%), followed by HIV counseling and testing site (19.0%), during an outreach event, or through a mobile testing unit (13%).
- Only 57% of the GBM interviewed had been tested for other STDs in the past 12 months. Of those who had been tested for gonorrhea, 10.6% self-reported a positive result. Of those who had been tested for chlamydia, 7.3% self-reported a positive result. Of those who had been tested for syphilis, 5.7% self-reported a positive result.
- PrEP awareness is high in the GBM community with 90.2% of men surveyed reporting having heard of PrEP. However, of those only 28.8% report having taken PrEP in the past 12 months.

Persons who inject drugs (2018 Study Cycle)

Recruitment of persons who inject drugs (PWID) for the PWID cycle is conducted using a modified chain referral strategy known as respondent-driven sampling (RDS) wherein a small number persons or “seeds” who are known to be currently using injection drugs are recruited and interviewed by staff and asked to recruit other participants from within their own social network. These respondents are then subsequently interviewed and offered a similar opportunity to recruit their peers. Recruitment continues until a desired sample size of 500 is reached. In 2018, a total of 570 people who inject drugs in New Orleans participated in the NHBS survey:

- The majority of the PWID sample (88%) had been tested for HIV in their lifetime. Of those, 25% received their last HIV test in a correctional facility, followed by an inpatient hospital visit (15%), public health clinic (11%), or drug treatment program (10%).
- Of the 45% of participants who had been incarcerated for more than 24 hours in the past 12 months, 63% were offered an HIV test while being held.
- Only 32% of the PWID sample had been tested for gonorrhea, chlamydia, or syphilis in the past 12 months. Of those who had been tested for gonorrhea, 5% self-reported a positive result. Of those who had been tested for chlamydia, 11% self-reported a positive result. Of those who had been tested for syphilis, 3% self-reported a positive result.
- When asked what drug they primarily inject, 70% of participants reported heroin by itself, 19% reported combination of heroin and cocaine (speedball), 2% reported cocaine by itself, 6% crystal meth, and 1% crack.
- Recent and lifetime nonfatal overdoses have increased for people who inject drugs. Fifty-three percent (53%) of the PWID sample in 2018 experienced an overdose in their lifetime and 85% had been around someone else while they were overdosing. This represents an increase from the 2012 overdose prevalence of 29% and 42% in 2015.
- More than half (55%) of PWID surveyed had received services from a local syringe service program (SSP).

Additional topics

In each cycle, additional topics of interest and/or importance to the population are asked.

- Beliefs about stigma and discrimination surrounding HIV are asked during all cycles. Across all cycles many participants agreed that “most people in New Orleans would discriminate against someone with HIV” (37% of GBM, 66% PWID, 62% HET). However, the majority of participants (52%-67%) agreed that most people in New Orleans would support the rights of a person with HIV to live and work wherever they wanted and about two thirds (62%-65%) think that people would be friends with someone with HIV. From 17%-24%, agreed that most people in the city think that individuals who got HIV through sex or drug use have gotten what they deserve.
- When asked about personal negative experiences due to being attracted to men during the past 12 months, 15.1% of GBM participants reported receiving poorer services than other people in restaurants, stores, other businesses or agencies and 35% had been called names or insulted.
- Compared to the general population of Louisiana, GBM are much more likely to be current smokers. 44.1% of the GBM participants were current tobacco smokers. In addition, 85.2% reportedly had friends who are GBM that smoke.
- Among the personal or witnessed overdose experiences, only half the time did someone seek medical assistance or call 911. The main reason cited for not seeking assistance was fear of arrest.

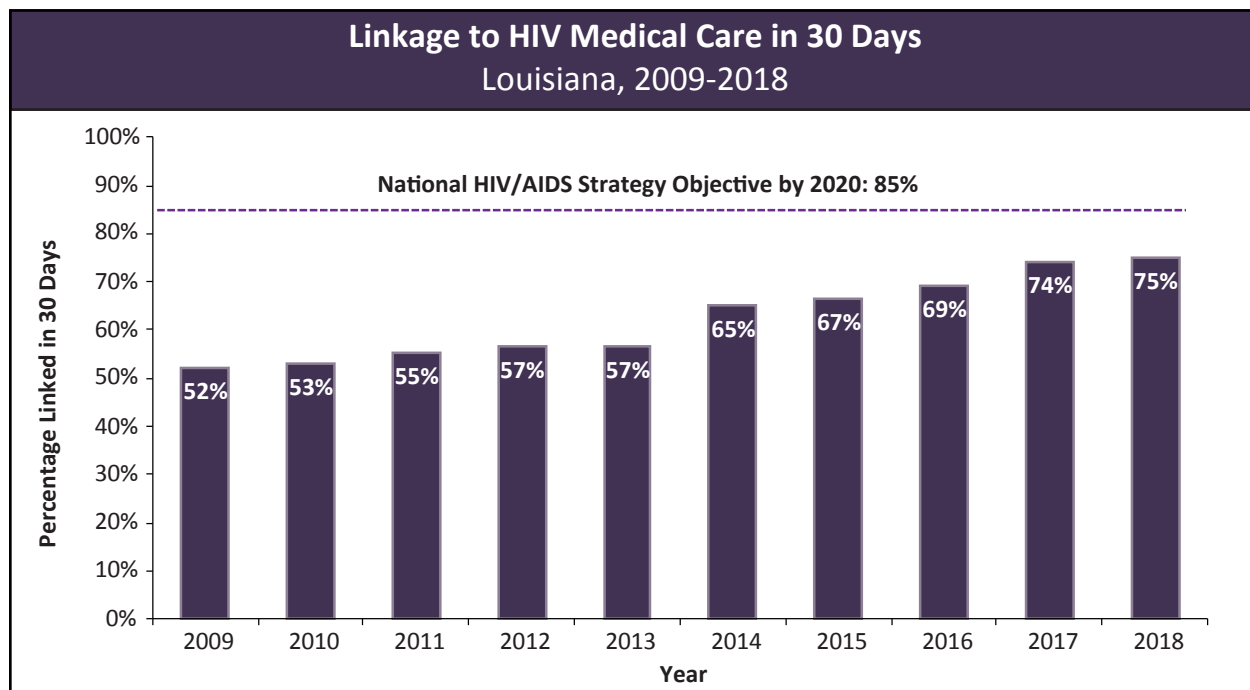
National HIV Behavioral Surveillance (NHBS) Louisiana, 2016-2018						
	Heterosexuals at Increased Risk for HIV (2016)		Gay, Bisexual & Other Men Who Have Sex With Men (2017)		Persons Who Inject Drugs (2018)	
Category	Number	Percent	Number	Percent	Number	Percent
Race/Ethnicity						
Black/African American	576	85%	100	14%	151	26%
Hispanic/Latinx	29	4%	38	9%	47	8%
White	43	6%	248	58%	318	56%
Multi-race	22	3%	26	6%	46	8%
Other/Unknown	6	2%	13	3%	8	1%
Gender						
Male	375	55%	425	100%	393	69%
Female	303	45%	0	0%	169	30%
Transgender	0	0	0	0%	7	1%
Age						
18-24	67	10%	35	8%	29	5%
25-29	52	8%	92	22%	73	13%
30-34	47	7%	75	17%	103	18%
35-39	64	9%	49	12%	129	23%
40-44	78	12%	40	9%	92	16%
45-50	115	17%	45	11%	73	13%
51+	255	38%	90	21%	71	12%
Sexual Identity						
Heterosexual or "Straight"	591	87%	8	2%	456	80%
Homosexual, Gay, or Lesbian	3	<1%	350	82%	28	5%
Bisexual	82	12%	63	15%	85	15%
Substance Use						
Ever Injected Drugs	143	21%	32	8%	570	100%
Injected Any Drug (past 12 months)	56	39%	11	3%	570	100%
Shared Needle (past 12 months)	26	46%	2	18%	270	47%
Shared Works/Equipment (past 12 months)	39	69%	3	27%	430	75%
Used Non-Injection Drugs (past 12 months)	425	63%	253	60%	443	78%
HIV Positivity						
Self-Reported Previous Known Positive	26	4%	71	17%	21	4%
Newly Detected Positive	15	2%	8	2%	4	1%
Never Tested Previously	76	6%	13	3%	66	12%
Hepatitis C Positivity						
HCV Negative	454	83%	359	96%	129	23%
HCV Reactive	92	17%	13	3%	436	77%
Previously Unknown HCV Reactive	48	52%	3	23%	148	26%

Linkage and Retention in HIV Care

Linkage to HIV Medical Care

Following a person's HIV diagnosis, patients should be immediately linked into HIV medical care. Linkage into HIV medical care allows for proper monitoring of a person's health and well-being in addition to providing opportunities for intervention to prevent HIV transmission. Early initiation of HIV treatment and long-term adherence leads to better health outcomes and reduces HIV transmission. Initiation of HIV treatment is dependent on linkage and retention in medical care.

Louisiana's surveillance system is able to monitor the proportion of newly diagnosed persons linked to care using HIV laboratory and surveillance data. Linkage to care within 30 days is defined as having a CD4 count or viral load (VL) test conducted within 30 days of HIV diagnosis. If the diagnosis and the CD4 count or VL test are conducted on the same day, those persons are considered to be linked to care.

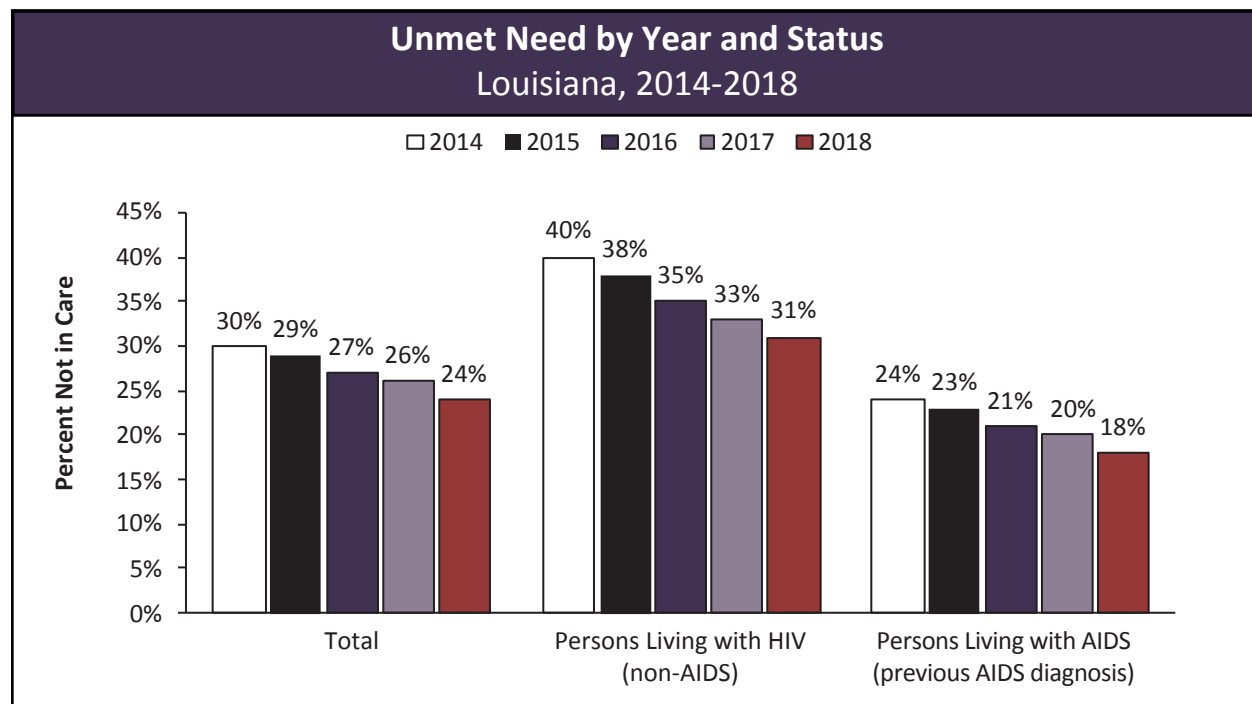


- In Louisiana, the proportion of newly diagnosed persons linked to care within 30 days has increased substantially over the past ten years. In 2009, only 52% of newly diagnosed persons were linked to care within 30 days. By 2018, the proportion had increased to 75% of newly diagnosed persons linked to care within 30 days. While the steady increase in linkage to care is promising, Louisiana will need substantial gains in order to reach the National HIV/AIDS Strategy (NHAS) Objective of 85% by 2020.
- From 2014-2018, linkage to care rates in Louisiana improved significantly. During this time, a number of interventions were implemented and enhanced to increase access to medical care, assist individuals in navigating the health care system, and expedite linkage to HIV care, such as: Medicaid expansion to the working poor and nonelderly adults, the LA Links program that utilizes HIV surveillance data to identify persons not linked to HIV care and employs community-based navigators to assist patients with linkage, the Rapid Start program which aims to link newly diagnosed persons into HIV care within 72 hours of diagnosis, and the Louisiana Health Access Program (LA HAP) that provides health insurance payment assistance and access to medications for PLWH in Louisiana.

Unmet Need: Percentage of Persons out of HIV Medical Care

The primary focus of the Ryan White HIV/AIDS Program is to help ensure that individuals living with HIV routinely access primary medical care and medications in order to maintain their health and delay progression to an AIDS diagnosis or death. There are, however, many people who are living with HIV who do not regularly access medical care. Unmet need is defined as the number of individuals in a set geographic area who know their HIV status but have not accessed HIV-related primary medical care in a 12-month period, as measured by lack of evidence of a CD4 or VL test result in the last 12 months.

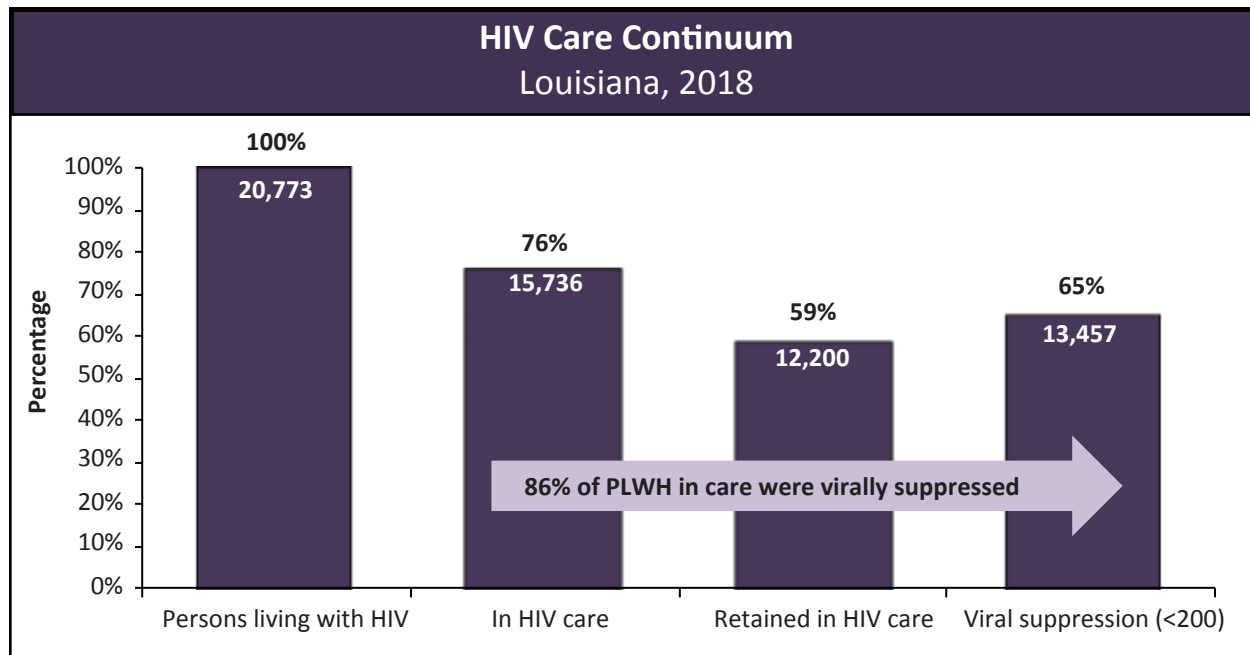
In Louisiana, SHHP's Surveillance Unit manages and calculates the data needed to estimate unmet need. Persons who had at least one CD4 or VL test within a 12-month period are considered to have been "in care" during that year. Persons who did not are considered "out of care" and are deemed as having an "unmet need" for care and treatment. Louisiana's Public Health Sanitary Code requires that laboratories report all test results indicative of HIV infection for persons residing in Louisiana. As a result, laboratory data received by SHHP's Surveillance Unit can be used to assess whether a person is in care or not in care during a specified time period.



- The overall percentage of persons with unmet need has steadily decreased over the last five years. In 2018, slightly less than one-quarter (24%) of all persons living with HIV in Louisiana did not have a single CD4 count or viral load lab conducted in that year and were considered to be out of HIV medical care.
- Persons living with a prior AIDS diagnosis continue to have lower percentages of unmet need than persons living with HIV who have not had a prior AIDS diagnosis. People living with a prior AIDS diagnosis may require more intensive antiretroviral treatment (ART) regimens and may have more symptoms, leading them to more frequent medical visits.

Unmet Need for Primary HIV Medical Care Louisiana, 2018		
	Percent in Care	Percent Not in Care (Unmet Need)
Overall	76%	24%
Persons living with HIV (non-AIDS)	69%	31%
Persons living with AIDS	82%	18%
Gender		
Men	74%	26%
Women	79%	21%
Transgender persons	83%	17%
Race/Ethnicity		
Black/African American	77%	23%
Hispanic/Latinx	55%	45%
White	78%	22%
Other	71%	29%
Age Group		
0-12	91%	9%
13-24	78%	22%
25-44	75%	25%
45-64	77%	23%
65+	72%	28%
Region		
1-New Orleans	76%	24%
2-Baton Rouge	82%	18%
3-Houma	78%	22%
4-Lafayette	78%	22%
5-Lake Charles	65%	35%
6-Alexandria	69%	31%
7-Shreveport	67%	33%
8-Monroe	71%	29%
9-Hammond/Slidell	78%	22%

- Among persons living with HIV in 2018, 76% had at least one medical care visit during the year. Persons living with AIDS were more likely to have a medical visit (82%) compared to persons living with HIV (non-AIDS) (69%).
- Women, transgender persons, and non-Hispanics were more likely to be receiving medical care.
- Persons residing in the Baton Rouge, Houma, Lafayette, and Hammond/Slidell regions were most likely to be in care, while persons in the Lake Charles and Shreveport regions were least likely to be in care.

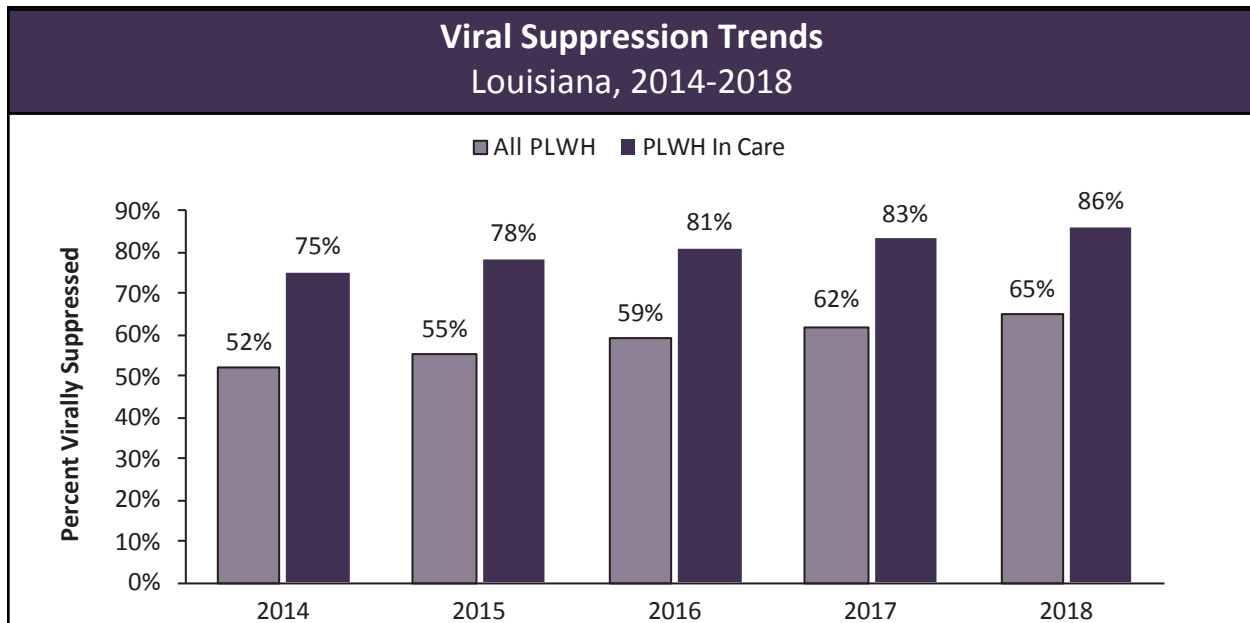


Louisiana's HIV Care Continuum

The HIV Care Continuum is a way to graphically represent the number of individuals living with HIV who are actually receiving the full benefits of the medical care and treatment they need. This model was first described by Dr. Edward Gardner and colleagues, who reviewed current HIV research and developed estimates of how many individuals with HIV in the US are engaged at various steps in the care continuum from diagnosis through viral suppression. The graph above shows the Louisiana-specific continuum using data from surveillance and laboratory reporting.

- Column 1: The number of persons living with HIV (PLWH) at the end of 2018 included in the continuum is limited to people living with HIV as of 12/31/2018, but who were diagnosed before 01/01/2018 and whose current address is in Louisiana. This number is smaller than the overall number of persons living with HIV presented in Chapter 1 because it removes anyone newly diagnosed in 2018. In 2018, there were 20,773 persons in Louisiana who met these criteria.
- Column 2: The number of people in HIV care includes all PLWH who had at least one CD4 count or viral load (VL) test conducted in 2018. In 2018, 76% of Louisiana's PLWH had at least one HIV medical care visit.
- Column 3: The number of people retained in HIV care includes the number of PLWH who had two or more CD4 counts or VL tests conducted in 2018 at least 90 days apart. In 2018, 59% of Louisiana's PLWH were retained in HIV medical care.
- Column 4: The number of people who are virally suppressed are the number of PLWH whose most recent VL test in 2018 was less than 200 copies/mL. In 2018, 65% of Louisiana's PLWH were virally suppressed at their most recent VL.
- An additional feature that Louisiana has added is the connection between Column 2 and Column 4. Among people who had at least one HIV medical care visit in 2018, 86% were virally suppressed.

Viral Suppression Trends

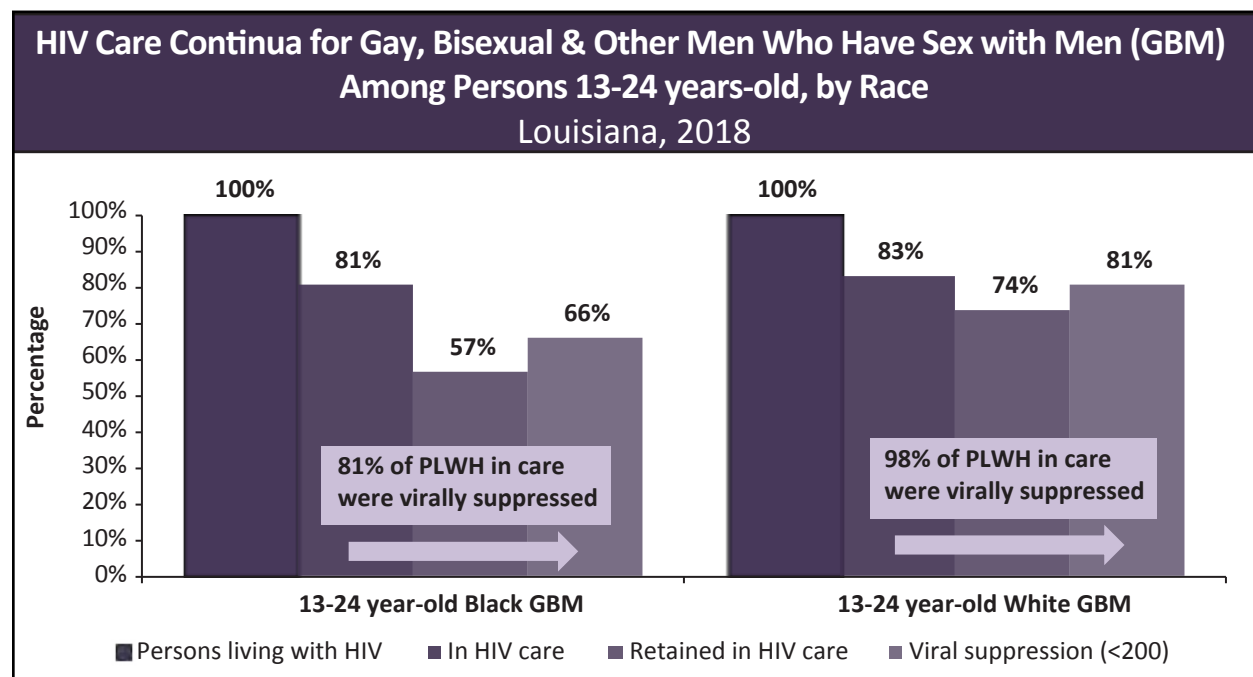


- From 2014-2018, viral suppression among persons living with HIV increased from 52% in 2014 to 65% in 2018.
- Individuals who have had at least one CD4 or viral load lab conducted in the year of interest are considered to be in care. Among PLWH in care, the percentage of individuals virally suppressed increased from 75% to 86% between 2014-2018.

Viral Suppression Among PLWH in Care by Region Louisiana, 2014-2018					
	2014	2015	2016	2017	2018
Louisiana	75%	78%	81%	83%	86%
1-New Orleans	75%	82%	84%	85%	87%
2-Baton Rouge	74%	74%	78%	82%	86%
3-Houma	80%	84%	84%	86%	88%
4-Lafayette	77%	77%	81%	84%	88%
5-Lake Charles	71%	73%	78%	79%	80%
6-Alexandria	72%	72%	76%	80%	84%
7-Shreveport	71%	76%	78%	77%	79%
8-Monroe	74%	75%	81%	81%	83%
9-Hammond/Slidell	76%	84%	84%	86%	86%

- Improvements in viral suppression among PLWH in care vary by region. The New Orleans and Baton Rouge regions had the greatest improvement in viral suppression among PLWH in care. The Houma and Shreveport regions had the smallest increase in viral suppression among PLWH in care.

Visualizing Disparities with the HIV Care Continuum



- Young gay, bisexual, and other men who have sex with men (GBM) comprise a significant proportion of new HIV diagnoses. Engaging young GBM living with HIV in medical care and achieving viral suppression plays an important role in reducing HIV transmission.
- Young, White GBM have higher proportions of engagement in HIV medical care, retention, and viral suppression than young, Black GBM. Among those in HIV medical care, 98% of 13-24 year-old White GBM were virally suppressed compared to only 81% of 13-24 year-old Black GBM. Young, White GBM have better outcomes on every measure of the HIV continuum as compared to all persons living with HIV in Louisiana, as well.
- The Louisiana Department of Health is currently implementing two Centers for Disease Control and Prevention (CDC) demonstration projects in the New Orleans Metropolitan Statistical Area with primary project aims to address the high HIV burden among GBM, in particular, the racial and gender disparities in this population. Below are descriptions of the demonstration projects:
 1. Project PrIDE (FOA PS15-1506) – The PrEP Implementation Data2Care Evaluation (PrIDE) demonstration project began in 2015. PrIDE employs two strategies to reduce HIV transmission: 1) Engaging GBM and transgender persons in Pre-exposure Prophylaxis (PrEP) to prevent HIV acquisition and 2) “Data to Care” which utilizes HIV surveillance data to link and re-engage people living with HIV into HIV medical care.
 2. THRIVE (FOA PS15-1509) – The Targeted Highly-Effective Interventions to Reverse the HIV Epidemic (THRIVE) demonstration project began in 2015. THRIVE utilizes a community collaborative model to reduce HIV acquisition and transmission among GBM of color by increasing PrEP uptake, performing routine HIV/STD screening, and improving health outcomes for persons of color living with HIV through ART adherence and achievement of viral suppression.

Perinatal HIV Exposure and Congenital Syphilis

Active surveillance of perinatal HIV exposure and congenital syphilis is an important aspect in preventing disease transmission of HIV or syphilis to a newborn. Through proper care and treatment, both perinatal transmission of HIV and congenital syphilis can be prevented. The rate of HIV transmission from mother to child can be reduced from 25% to less than 1% with adherence to antiretroviral prophylaxis. Adequate treatment for syphilis during pregnancy is 98% effective in reducing congenital syphilis.^{xiv} Early and repeat testing for HIV and syphilis during pregnancy is important in the timely treatment and reduction of transmission. In a move to reinforce these recommendations, Louisiana passed legislation in 2014 requiring physicians to repeat HIV and syphilis testing for pregnant women during their third trimester, in addition to testing already mandated during their first prenatal care visit.

Perinatal exposure to HIV and congenital syphilis are not equal in Louisiana. Black mothers under the age of 30 are affected more than any other race/ethnicity and age group in Louisiana. Barriers to care can include lack of transportation to and from healthcare appointments, low income, stigma, and gaps in other supportive services for pregnant women with these particular health concerns. While Louisiana's rates for perinatal HIV exposure/transmission and congenital syphilis have been historically higher than the national rate, Louisiana is committed to improving health and birth outcomes for women that have been affected by HIV and syphilis.

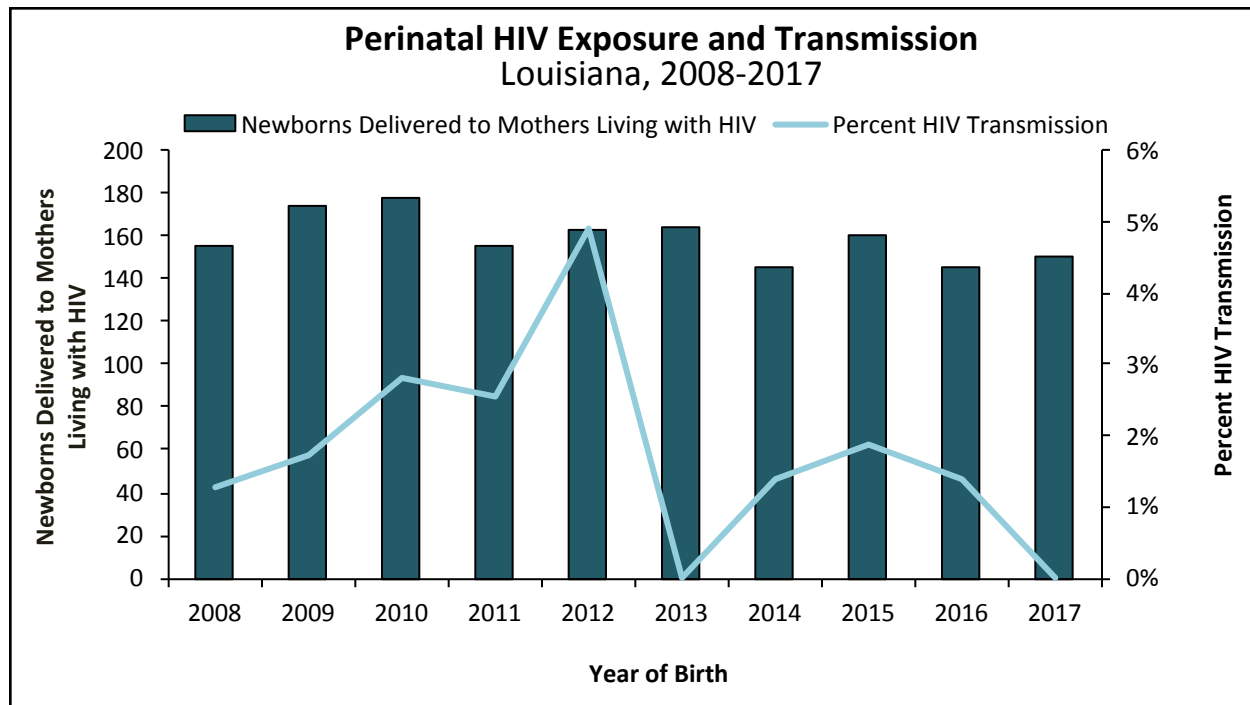
Perinatal HIV Exposure

Background and Overview

In 1994, the Pediatric AIDS Clinical Trials Group demonstrated that zidovudine (ZDV) administered to pregnant women living with HIV could reduce the risk of perinatal acquisition of HIV. As a result, the United States Public Health Service (USPHS) issued recommendations for the use of ZDV during pregnancy to reduce the risk of vertical transmission. Subsequent clinical trials and observational studies demonstrated that combination antiretroviral (ARV) medication given to a mother was associated with further declines in transmission. The recommendations for prevention of perinatal transmission are continuously updated and are available from the National Institutes of Health's AIDS Info website (<http://aidsinfo.nih.gov/>).^{xv}

The CDC has published recommendations to include HIV testing as part of the routine screening panel for all pregnant women, as well as repeat testing during the third trimester in areas with high HIV incidence, which includes Louisiana. The CDC also recommends a rapid test at delivery for women without documented HIV test results.^{xvi} Louisiana law (Louisiana RS 40:1091) requires any physician providing medical care to a pregnant woman to offer an HIV test as a component of her routine laboratory panel at her first prenatal care visit and at the first prenatal care visit of the third trimester unless she specifically declines ("opts out"). In addition, the law allows physicians to test a child born to a woman whose HIV status is unknown at the time of delivery, without parental consent. Title 51 of the Administrative Code (Public Health -- Sanitary Code, available at: <http://doa.louisiana.gov/osr/lac/books.htm>) also requires the explicit reporting of pregnancy for women living with HIV, as well as all HIV tests performed on children aged 0-6 years regardless of test result (positive or negative).

Perinatal HIV exposure surveillance requires several rounds of testing to determine an infant's serostatus. Reporting of this information ensures effective monitoring of all perinatal HIV exposures. Infants born to mothers living with HIV need a recorded negative result on HIV tests conducted at one month and four months of age to be confirmed as HIV negative. Until an infant receives adequate HIV testing, that infant is considered to have an indeterminate HIV status.

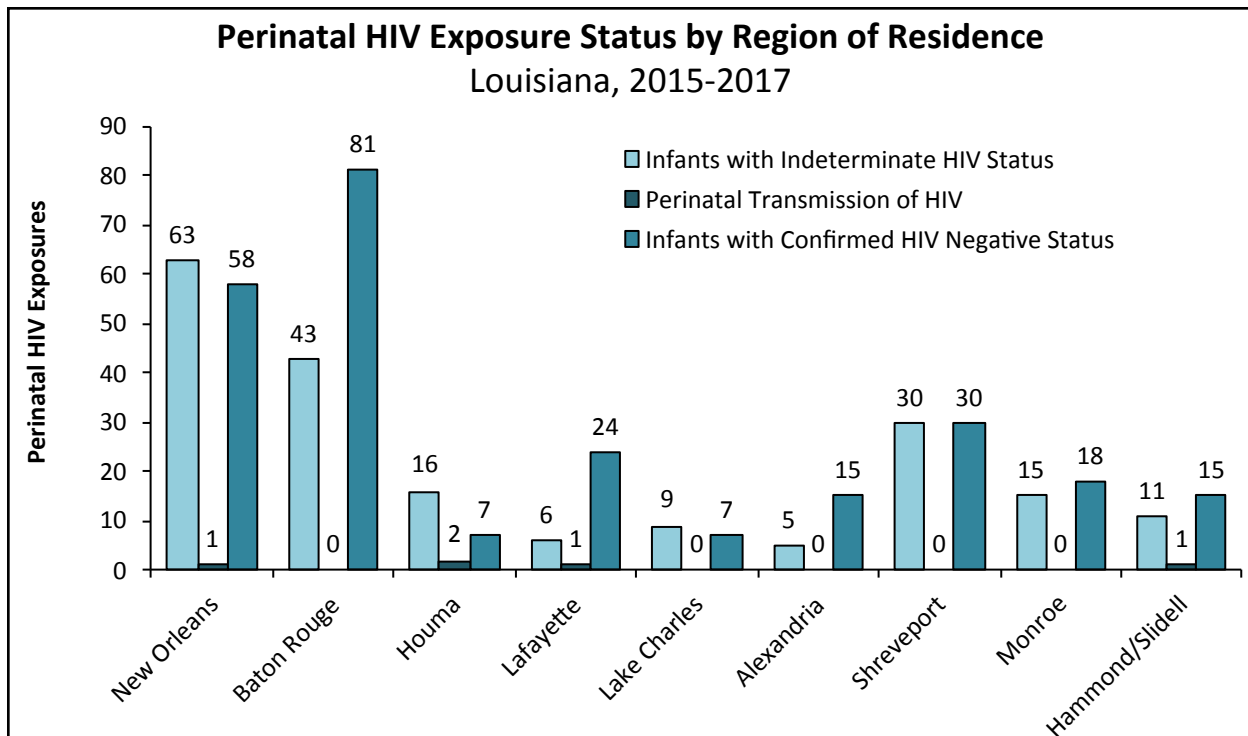


- In 2017, 151 infants were perinatally exposed to HIV in Louisiana.*
- There were no cases of perinatal transmission in 2017.
- Over the past ten years, the highest percentage of perinatal transmission was in 2012 (5%), while 2013 and 2017 were the lowest (0%).
- Preliminary data indicate one case of perinatal transmission in 2018 and no cases in 2019.

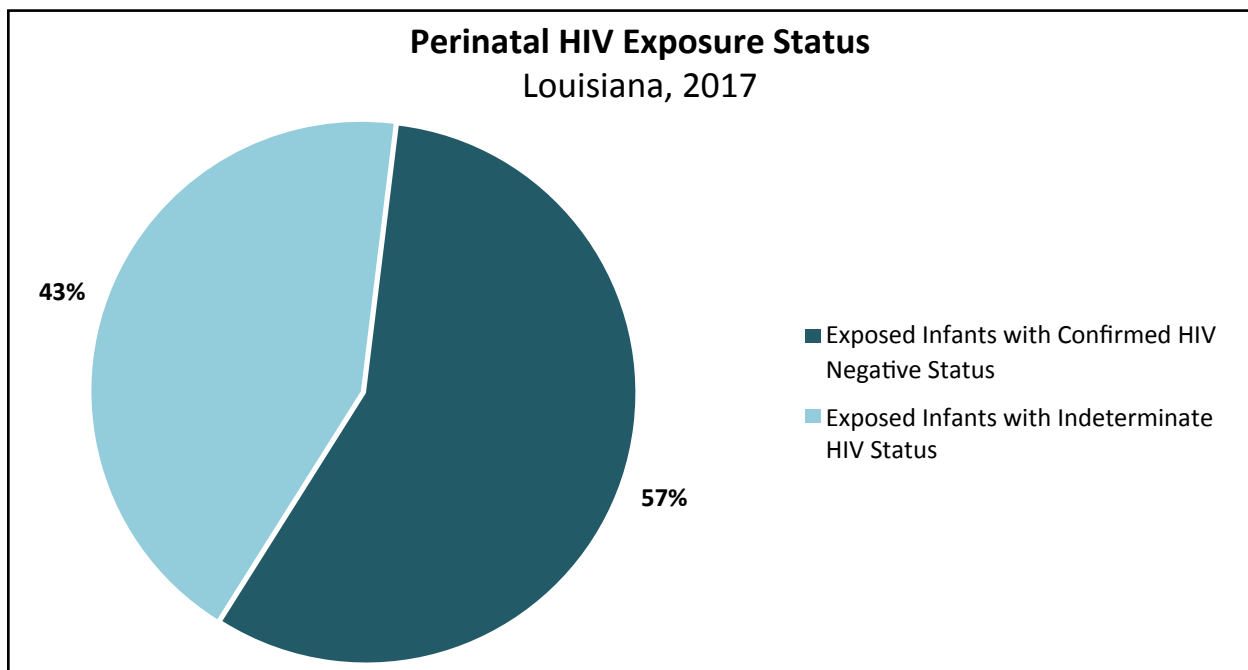
Perinatal HIV in the United States

In 2017, an estimated 99 children under the age of 13 were diagnosed with HIV, 73 were a result of perinatal transmission.^{xvii} While the United States has a low rate of perinatal transmission of HIV, the CDC has proposed a framework to end perinatal transmission in the United States, which is defined as a transmission rate of less than 1% of infants born to mothers living with HIV. The framework includes universal testing (i.e. opt-out testing), data reporting and long-term monitoring, as well as reproductive health and family planning services for women. These efforts, individually managed by each state, set a foundation for the elimination of vertical transmission through diagnosing women before they are pregnant, providing care for them while they are pregnant, and monitoring of women out of care or in need of other services related to their diagnosis.^{xviii}

*One infant died within 24 hours of birth due to extreme prematurity (21 weeks gestation) and is not included in additional data presentations.



- Between 2015 and 2017, mothers living with HIV delivered newborns in all nine public health regions in Louisiana. The Baton Rouge region had the highest number of perinatal exposures (124). The New Orleans region had the second highest number of perinatal exposures (122) and one perinatal transmission.
- Approximately 43% of HIV exposed infants born between 2015 and 2017 have an indeterminate HIV status. To decrease the number of perinatal exposure cases with an indeterminate status, more work must be done to improve reporting of negative test results, create better access to testing, and conduct more complete follow-up on infants.



- Approximately 43% of infants exposed to HIV born in 2017 have an indeterminate HIV status due to an insufficient number of labs to confirm serostatus.

The following table shows demographic information for mothers living with HIV who delivered a newborn in 2017. There were two sets of twins. A total of 148 mothers are included below who gave birth to 150 infants.

Demographics of Mothers Living with HIV Louisiana, 2017		
	Number	Percent
Total	148	100%
Race/Ethnicity		
Asian	2	1%
Black/African American	123	83%
Hispanic/Latina	6	4%
White	15	10%
Multi-race	2	1%
Age at Delivery		
15-19	3	2%
20-24	25	17%
25-29	49	33%
30-34	43	29%
35+	28	19%
Imputed Transmission Category		
Woman Who Injects Drugs	11	7%
High Risk Heterosexual (HRH)	131	89%
Perinatal/Pediatric*	6	4%
Delivery Type		
Vaginal	60	41%
Elective Cesarean	64	43%
Non-elective Cesarean	19	13%
Cesarean, unknown type	5	3%
Region		
1-New Orleans	37	25%
2-Baton Rouge	38	26%
3-Houma	8	5%
4-Lafayette	9	6%
5-Lake Charles	9	6%
6-Alexandria	6	4%
7-Shreveport	19	13%
8-Monroe	12	8%
9-Hammond/Slidell	10	7%

*Perinatal/pediatric transmission is not imputed.

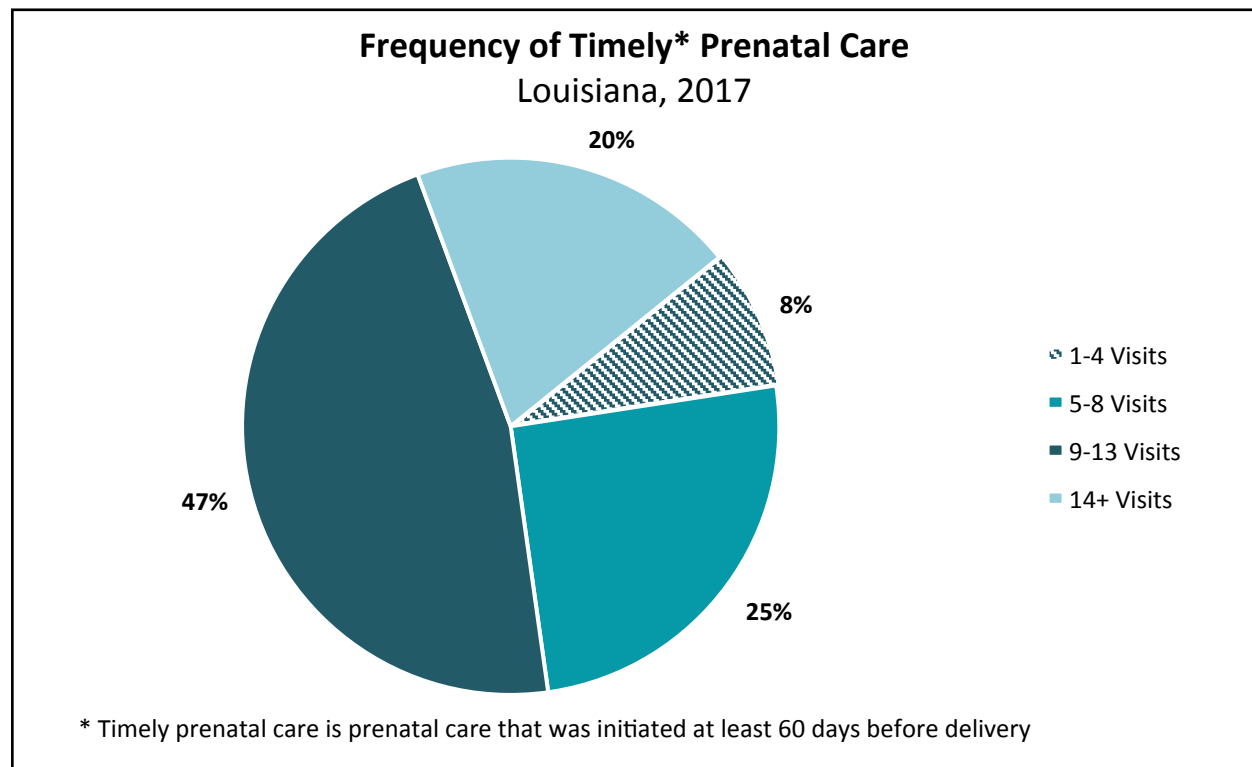
- Mothers living with HIV who gave birth in 2017 were predominately Black (83%) and between 25-34 years old (62%).
- Seven percent of mothers injected drugs and six mothers themselves acquired HIV perinatally (4%); the majority acquired HIV through high risk heterosexual sex (89%).
- In 2017, 26% of mothers living with HIV who delivered a newborn lived in the Baton Rouge region and 25% lived in the New Orleans region.

Birth Outcomes of Infants Exposed to HIV Louisiana, 2017		
	HIV Exposed Newborns	Percent
Total	150	100%
Birth Weight		
Low (<2500g)	38	25%
Normal (≥2500g)	112	75%
Gestational Age		
Preterm (<37 weeks)	35	23%
Full Term (≥37 weeks)	115	77%

- Among newborns exposed to HIV in Louisiana in 2017, 25% were born at a low birth weight (<2500g), and 23% were born preterm (before 37 weeks gestational age). This is compared to all newborns born in Louisiana in 2017, where 11% were low birthweight and 13% were born preterm.^{xix}

Prenatal Care and Perinatal Transmission Risk Reduction

The American Congress of Obstetricians and Gynecologists (ACOG) recommends a total of 14 prenatal care visits during pregnancy.^{xx} Lack of prenatal care is one of the factors that most significantly impacts perinatal transmission since women who are not in prenatal care are less likely to get tested for HIV and receive ARVs during their pregnancy.



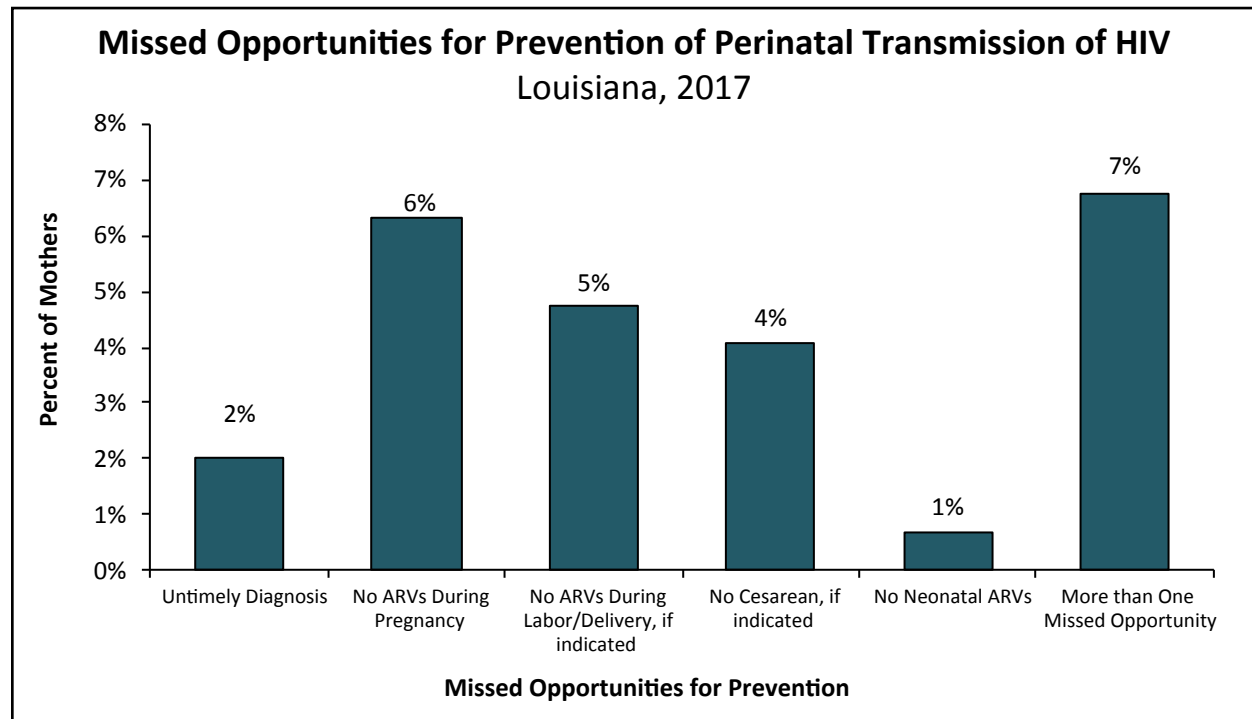
- Of the 148 women living with HIV in Louisiana in 2017, 131 (89%) had timely prenatal care. Of these mothers, eight percent had 1-4 visits, 25% had 5-8 visits, and 47% of mothers had 9-13 prenatal visits.
- Twenty percent of mothers had the recommended number of 14 or more prenatal care visits, an increase from 18% in 2016.

Perinatal HIV Exposure Risk and Missed Opportunities

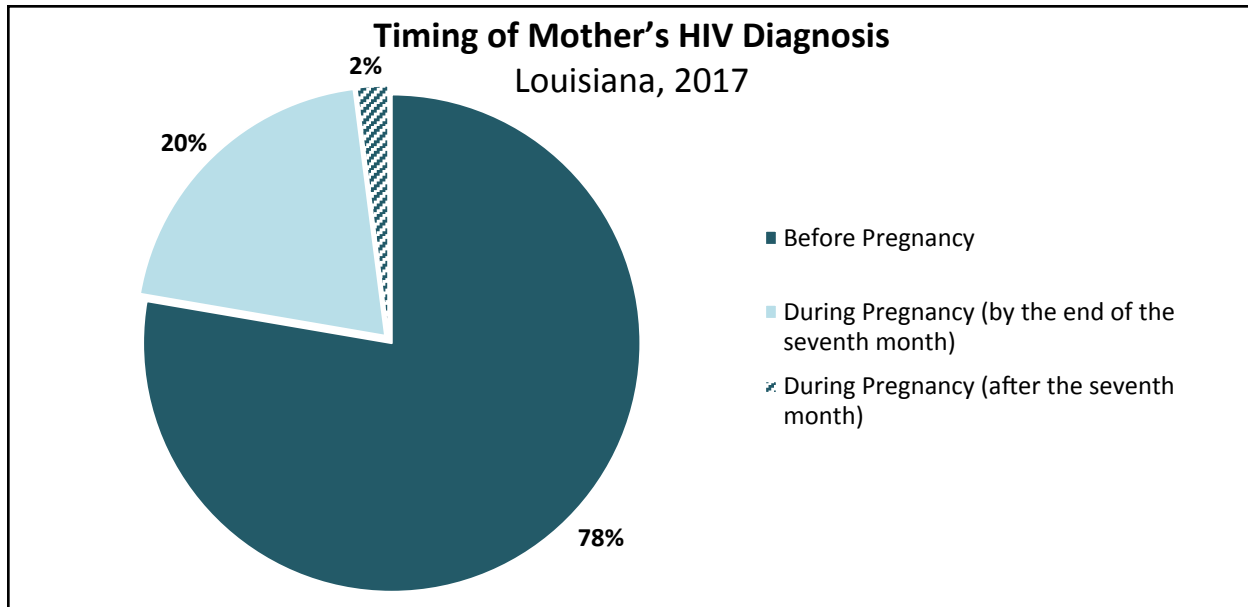
Risk of perinatal transmission of HIV depends on fetal/infant exposure to maternal virus. This exposure can be reduced by adhering to the following recommendations:

- The mother is diagnosed early (by the end of the seventh month of pregnancy) so that maternal viral load can be reduced
- The mother receives ARVs during pregnancy
- The mother receives ARVs during labor/delivery (recommended if the maternal viral load is over 1,000 copies/mL at time of labor/delivery)
- The newborn is delivered by cesarean section (recommended if the maternal viral load is over 1,000 copies/mL at time of labor/delivery)
- The newborn receives ARVs after delivery

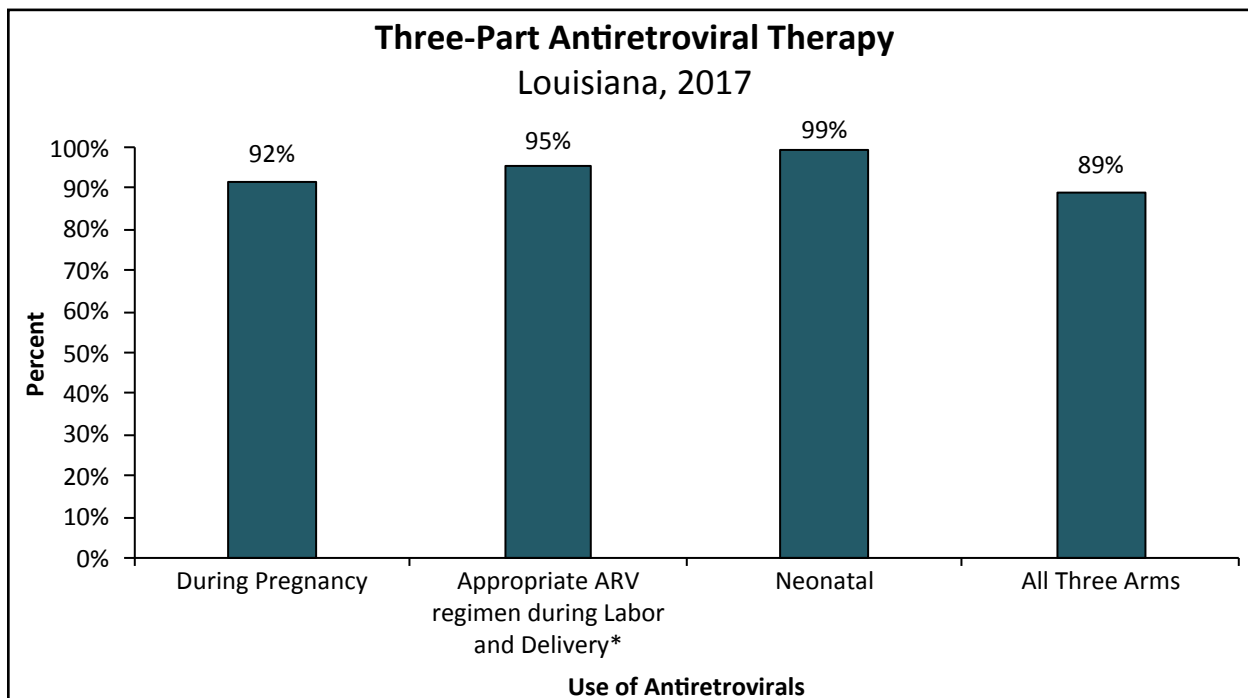
Following all of these recommendations can reduce the rate of perinatal transmission to less than 1%. Although prenatal care is not listed among these missed opportunities because it does not directly increase fetal exposure to maternal virus, it is a crucial component of the prevention of perinatal transmission and facilitates testing and treatment for pregnant women.



- In 2017, the most prevalent missed opportunity was no ARVs during pregnancy (6%). Two percent of mothers had an untimely HIV diagnosis and four percent did not receive a cesarean section, where indicated (last known viral load >1,000 copies/mL). The use of ARV medication during pregnancy depends on several factors including timing of diagnosis, prenatal care, and mother's access to ARVs. Overall, seven percent of mother-infant pairs had more than one missed opportunity for prevention of perinatal transmission.

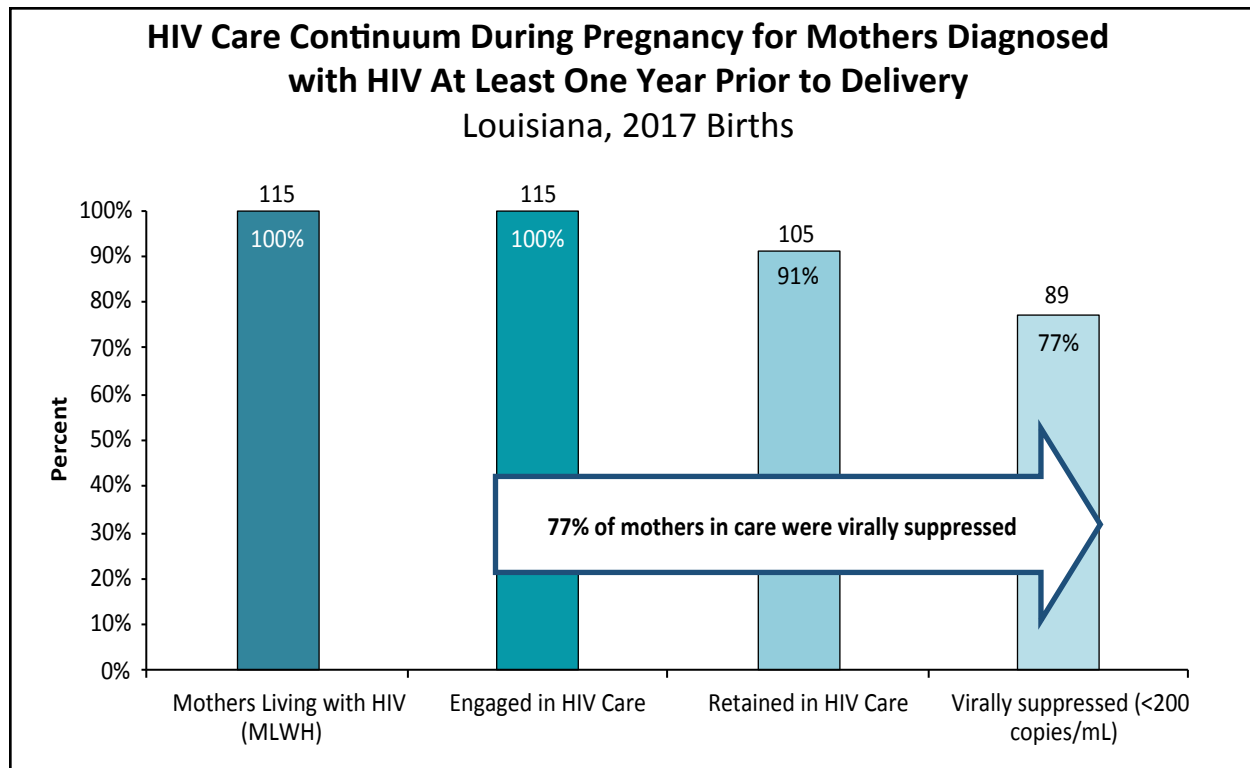


- All mothers living with HIV who gave birth in 2017 were diagnosed with HIV before labor and delivery.
- Seventy-eight percent of mothers were diagnosed with HIV before pregnancy, approximately 20% were diagnosed while pregnant but before the end of their seventh month of pregnancy, and two percent were diagnosed after the seventh month.



*Includes women given ARVs during labor and delivery when indicated (last known viral load >1,000 copies/mL) and women who were virally suppressed at time of delivery.

- Antiretroviral therapy administered to women living with HIV during pregnancy, labor/delivery and to newborns can greatly reduce perinatal transmission to less than 1%.
- In 2017, 92% of women living with HIV in Louisiana received ARV therapy during pregnancy; 95% received appropriate care and treatment during labor/delivery; and 99% of newborns received prophylactic zidovudine shortly after birth. Overall, 89% of mother-infant pairs received all three recommended components of the antiretroviral prophylaxis protocol.

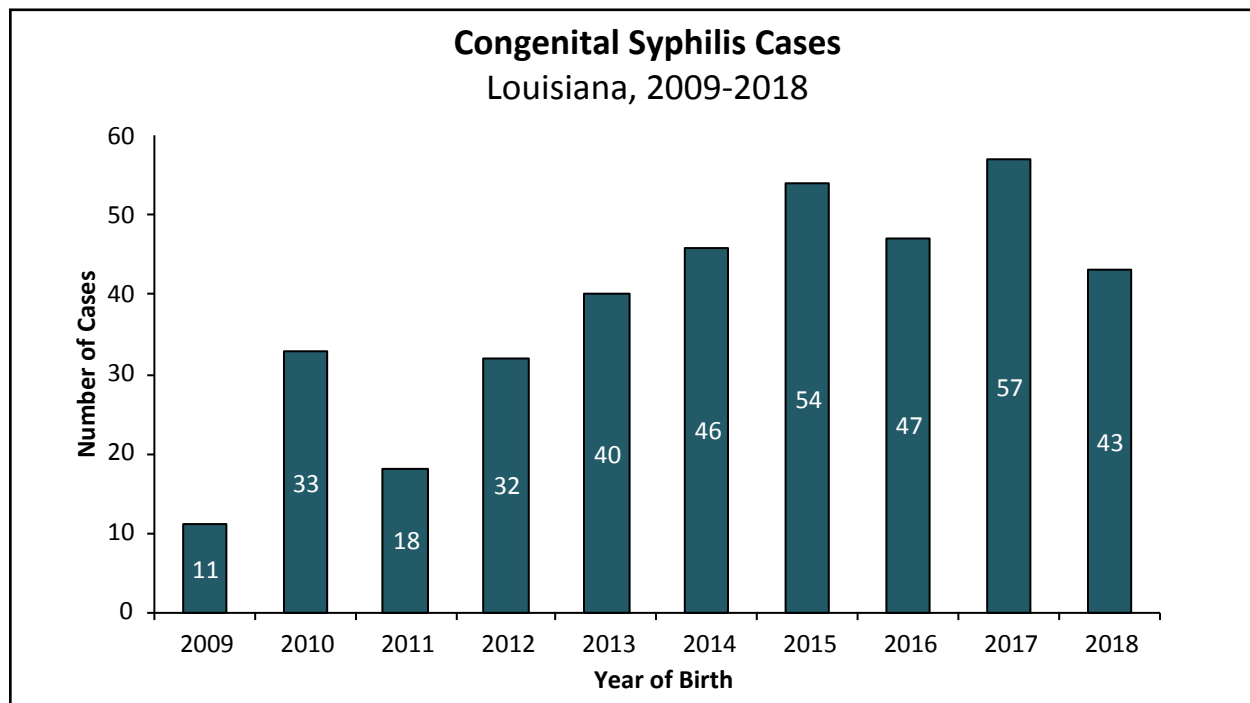


- Of the 148 mothers living with HIV that delivered in 2017, 115 (78%) were diagnosed at least one year (365 days) prior to their delivery date. Of the 115 mothers living with HIV, all (100%) had at least one CD4 count or viral load test conducted in the year prior to their child's birth date. These mothers are considered to be engaged in HIV care.
- Of the 115 mothers living with HIV, 105 (91%) had two or more CD4 counts or viral load tests in the year prior to their child's birth date that were at least 90 days apart. These mothers are considered to be retained in HIV care.
- Of the 115 mothers living with HIV in Louisiana that delivered an infant in 2017, 77% had a viral load less than 200 copies/mL at their most recent viral load test conducted in the year prior to their child's birth date. These mothers are considered virally suppressed.
- Finally, of the 115 mothers who were engaged in HIV care, 77% were virally suppressed at their last viral load prior to their child's birth date.

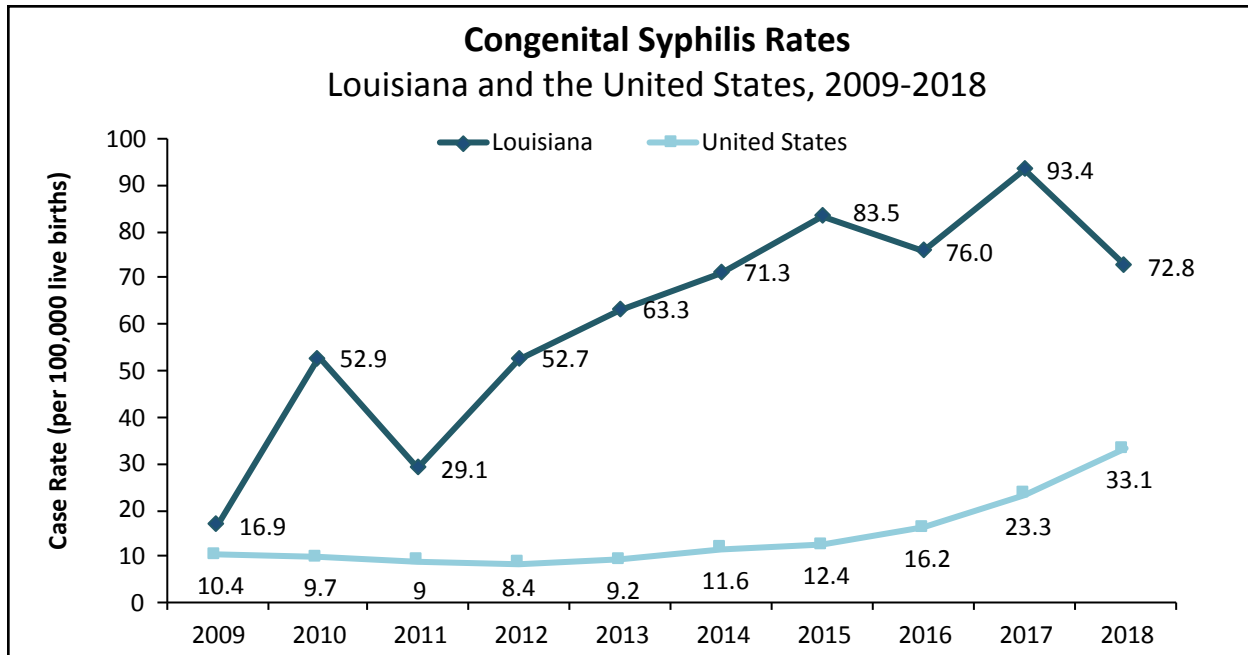
Congenital Syphilis

Syphilis is both curable and easily treated. Subject to the stage of infection, recommended treatment of syphilis during pregnancy ranges from one to three shots of benzathine penicillin, initiated at least 30 days prior to delivery. A case of congenital syphilis occurs when a pregnant woman with a current syphilis infection passes the infection on to her infant in utero or during delivery, most often due to inadequate and/or incomplete treatment, reinfection during pregnancy, or no treatment during pregnancy. Congenital syphilis may result in stillbirth, infant death and/or other significant adverse clinical outcomes.^{xxi}

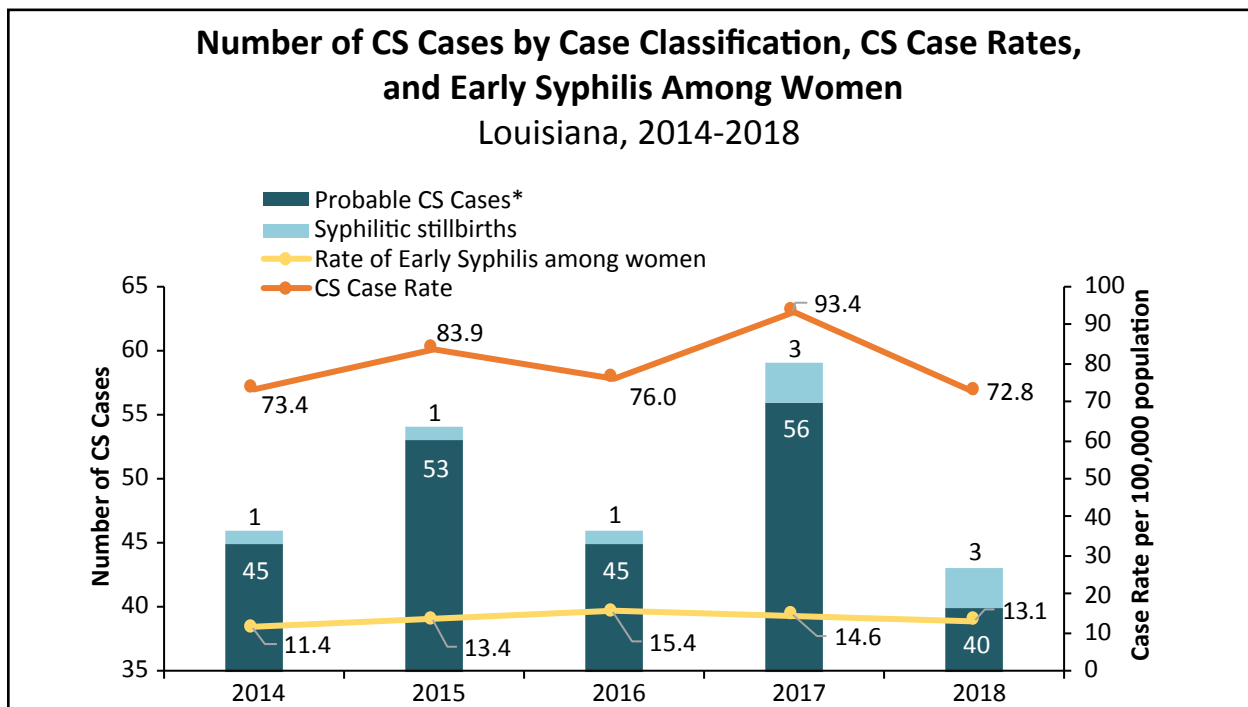
The STD/HIV/Hepatitis Program (SHHP) evaluates the medical records of all infants exposed to syphilis and uses the CDC case report algorithm for case determination. This algorithm considers maternal testing and treatment of syphilis during pregnancy as well as infant testing and signs of congenital syphilis at birth, though clinical manifestations and/or morbidity of congenital syphilis need not be present in the infant to be considered a reportable case.



- Congenital syphilis cases have fluctuated over the past ten years, with a low of 11 cases in 2009 and a high of 57 cases in 2017.
- The number of congenital syphilis cases in Louisiana decreased from 57 cases in 2017 to 43 cases in 2018, a 25% decrease.



- Congenital syphilis is on the rise throughout the U.S. Forty-one states in the nation reported one or more cases of congenital syphilis in 2018. The national rate of congenital syphilis increased from 23.3 cases per 100,000 live births in 2017 to 33.1 cases per 100,000 live births in 2018.
- While Louisiana's congenital syphilis case rate decreased in 2018, Louisiana's case rate was still two times the national rate with a case rate of 72.8 per 100,000 live births.



*A probable case of congenital syphilis is defined as an infant whose mother had untreated or inadequately treated syphilis at delivery or an infant who had a reactive test for syphilis and possible signs of syphilis at birth.

- Trends in congenital syphilis tend to follow trends for early syphilis in women with a one to two year lag. The rate of early syphilis among women has fluctuated over the past several years and the same is true for congenital syphilis.

- The rate of early syphilis among women decreased from 14.6 per 100,000 population in 2017 to 13.1 per 100,000 in 2018. Similarly, the CS rate in Louisiana decreased from 93.4 per 100,000 live births in 2017 to 72.8 per 100,000 live births in 2018.
- A syphilitic stillbirth is defined by untreated syphilis in a mother at time of delivery to an infant that lacks fetal movement that is greater than 20 weeks gestation or weighs at least 500 grams. Both 2017 and 2018 saw increases in syphilitic stillbirths from previous years.

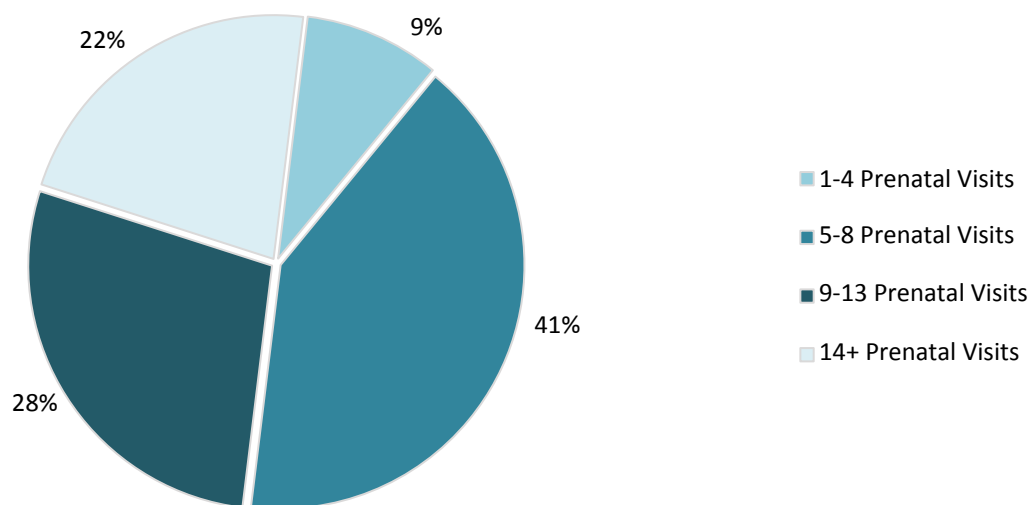
The following table shows demographic information for mothers of congenital syphilis cases in 2018. A total of 43 mothers are included below who gave birth to 43 infants.

Demographics for Mothers of Congenital Syphilis Cases Louisiana, 2018		
	Number	Percent
Total	43	100%
Maternal Race/Ethnicity		
Black/African American	33	77%
Hispanic/Latina	0	0%
White	10	23%
Maternal Age Group		
15-19	8	19%
20-24	15	35%
25-29	14	33%
30-34	5	12%
35+	1	2%
Region of Residence		
1-New Orleans	10	23%
2-Baton Rouge	5	12%
3-Houma	1	2%
4-Lafayette	8	19%
5-Lake Charles	2	5%
6-Alexandria	4	9%
7-Shreveport	4	9%
8-Monroe	4	9%
9-Hammond/Slidell	5	12%
Insurance During Pregnancy		
Private	3	7%
Government/Publicly Funded	36	84%
None	0	0%
Unknown/Not Reported	4	9%

- All nine of Louisiana's public health regions had at least one case of congenital syphilis in 2018. The New Orleans region had the highest proportion of cases (23%), followed by Lafayette (19%).
- In 2018, 77% of mothers were Black and 23% were White.
- Approximately 87% of mothers were under 30 years of age when they delivered.
- While insurance is not a direct measure of income, it can help identify where the greatest need in prevention is. Nearly 84% of women utilized government/publicly funded insurance during their pregnancy.

Frequency of Timely* Prenatal Care for Mothers of Congenital Syphilis Cases

Louisiana, 2018



*Timely prenatal care is prenatal care that was initiated at least 60 days before delivery.

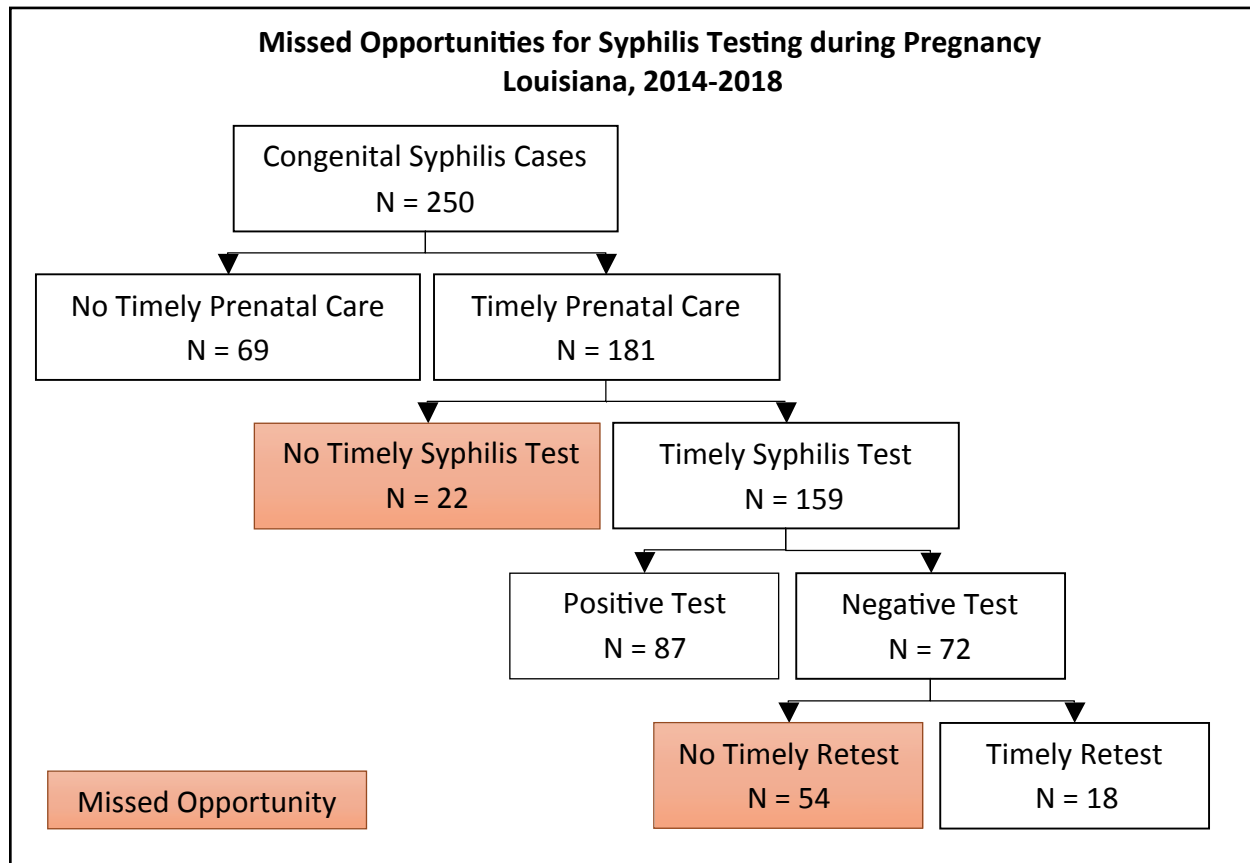
- Of the 43 mothers of congenital syphilis cases, 32 (74%) had timely prenatal care.
- Nine percent of mothers had 1-4 visits during pregnancy, while the majority of mothers had either 5-8 visits (41%) or 9-13 prenatal visits (28%) during pregnancy.
- Twenty-two percent of mothers had the recommended number of 14 or more prenatal care visits, an increase from just seven percent in 2017.

Prenatal Care and Birth Outcomes of Congenital Syphilis Cases Louisiana, 2018		
	Number	Percent
Total Cases	43	100%
Birth Weight		
Low Birth Weight (<2500g)	14	33%
Normal Birthweight (≥2500g)	29	67%
Gestational Age		
Preterm (<37 weeks)	15	35%
Term (≥37 weeks)	28	65%

- Infants born prematurely or underweight have greater health risks during their first year of life, as well as later in life. Thirty-three percent of congenital syphilis cases in 2018 had a low birth weight (under 2500 grams) and 35% were preterm (prior to 37 weeks gestation). This is compared to all newborns born in Louisiana in 2018, where 11% were low birthweight and 13% were born preterm.^{xxii}

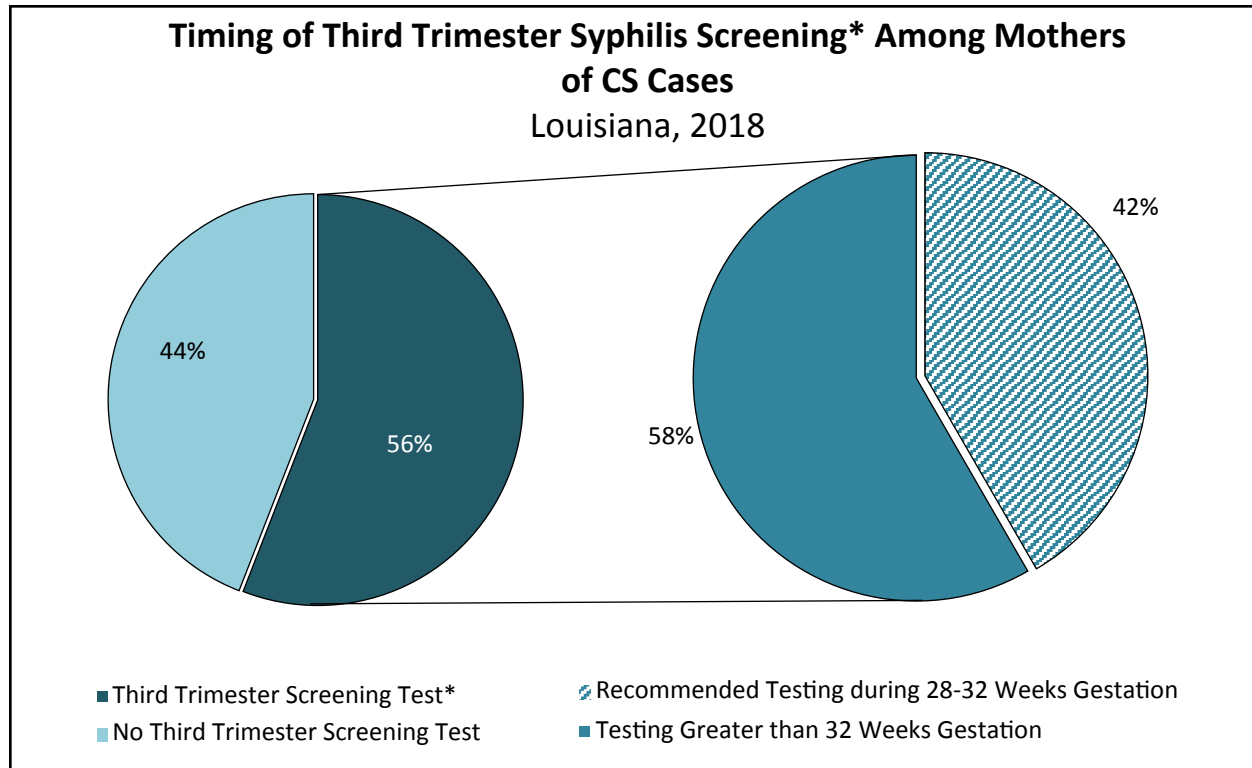
Missed Opportunities for Syphilis Testing

Syphilis testing during pregnancy is a crucial aspect of preventing cases of congenital syphilis. In 2007, Louisiana enacted a law requiring that physicians offer opt-out syphilis testing during a woman's first prenatal care visit. In 2014, Louisiana extended the law to require that physicians also offer opt-out syphilis testing at the first prenatal care visit of the third trimester. In the chart below, 'Timely Prenatal Care' is prenatal care that starts at least 60 days before delivery and a 'Timely Syphilis Test' is a syphilis test conducted at least 45 days before delivery. This timing allows ample time for a woman to be treated for syphilis before delivery.



Approximately 12% of the women who delivered a newborn with congenital syphilis and who had timely prenatal care were never tested for syphilis during pregnancy. Physicians are required to offer a syphilis test at the first prenatal care visit, which could have prevented these cases of congenital syphilis.

A large proportion (88%) of the women who delivered a newborn with congenital syphilis and who had timely prenatal care did have a timely test, 55% of which were positive. These women may not have been adequately treated for syphilis during pregnancy or were adequately treated but re-infected. Finally, 45% of women received a timely, negative syphilis tests but 75% of those with a timely negative test were not retested later in pregnancy. Timely third trimester syphilis testing is essential for preventing cases in which syphilis infection or seroconversion occurs late in pregnancy.



*Syphilis screening in third trimester does not include labor/delivery labs, regardless of gestation age at time of delivery.

- Forty-four percent of mothers of congenital syphilis cases in 2018 did not have a third trimester test during their pregnancy.
- Of the mothers that had a syphilis test in their third trimester, 42% were screened within the CDC-recommended testing window of 28-32 weeks. Fifty-eight percent were screened after 32 weeks gestation.

Profile of STDs in Louisiana

Introduction to STD Surveillance

The Louisiana Department of Health Office of Public Health STD/HIV/Hepatitis Program's (SHHP) Sexually Transmitted Disease (STD) Surveillance Program collects and analyzes data on diagnoses of syphilis (all stages), congenital syphilis, gonorrhea, and chlamydia. Louisiana's Sanitary Code mandates that all medical providers and laboratories report these STDs to SHHP along with basic demographic and residence information. Funding for STD Surveillance comes from the Centers for Disease Control and Prevention (CDC). Surveillance information for congenital syphilis can be found in *Chapter Three*.

Reports of positive syphilis tests are sent to field staff in each region for evaluation and follow-up investigations, when needed. Positive chlamydia and gonorrhea tests are reviewed in the state central office and presently do not receive additional follow-up by regional staff except for select persons found to be co-infected with gonorrhea and HIV. Additionally, in May 2019, Louisiana mandated the reporting of all negative test results for syphilis, HIV, and Hepatitis C, regardless of test type.

Data from STD surveillance activities are analyzed and non-identifying summary information is provided to public health programs, medical providers, researchers, and the general public through reports, presentations, data requests, and fact sheets. The information is provided for the purposes of program planning, education, and evaluation.

Louisiana consistently experiences some of the highest rates of STDs in the United States. Syphilis, chlamydia, and gonorrhea are the three most commonly reported STDs. In 2018, Louisiana had the 2nd highest chlamydia diagnosis rate, the 5th highest gonorrhea diagnosis rate, and the 7th highest primary and secondary (P&S) syphilis rate, according to the CDC's *2018 STD Surveillance Report*.^{xxiii}

The data presented below represent all new diagnoses of chlamydia, gonorrhea, P&S syphilis, and early non-primary non-secondary (early non-P&S) syphilis diagnosed from 2009 to 2018 and reported to SHHP before April 26, 2019. This report presents both counts of STD diagnoses and STD diagnosis rates. Rates take into account differing population sizes among demographic groups or areas. Comparing rates between two or more groups or areas can identify important differences.

Trends in Louisiana STD Cases Louisiana, 2009-2018										
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Chlamydia	28,020	29,151	31,642	27,353	28,739	28,896	32,305	31,727	34,749	36,293
Gonorrhea	9,098	8,899	9,172	8,873	8,669	8,978	10,274	10,783	12,014	12,043
P&S Syphilis	727	546	446	339	423	575	696	750	679	669
Early non-P&S Syphilis	772	739	488	342	276	372	439	568	623	576

In 2018, 36,293 chlamydia diagnoses, 12,043 gonorrhea diagnoses, 669 P&S syphilis diagnoses, and 576 early non-P&S syphilis diagnoses were reported in Louisiana.

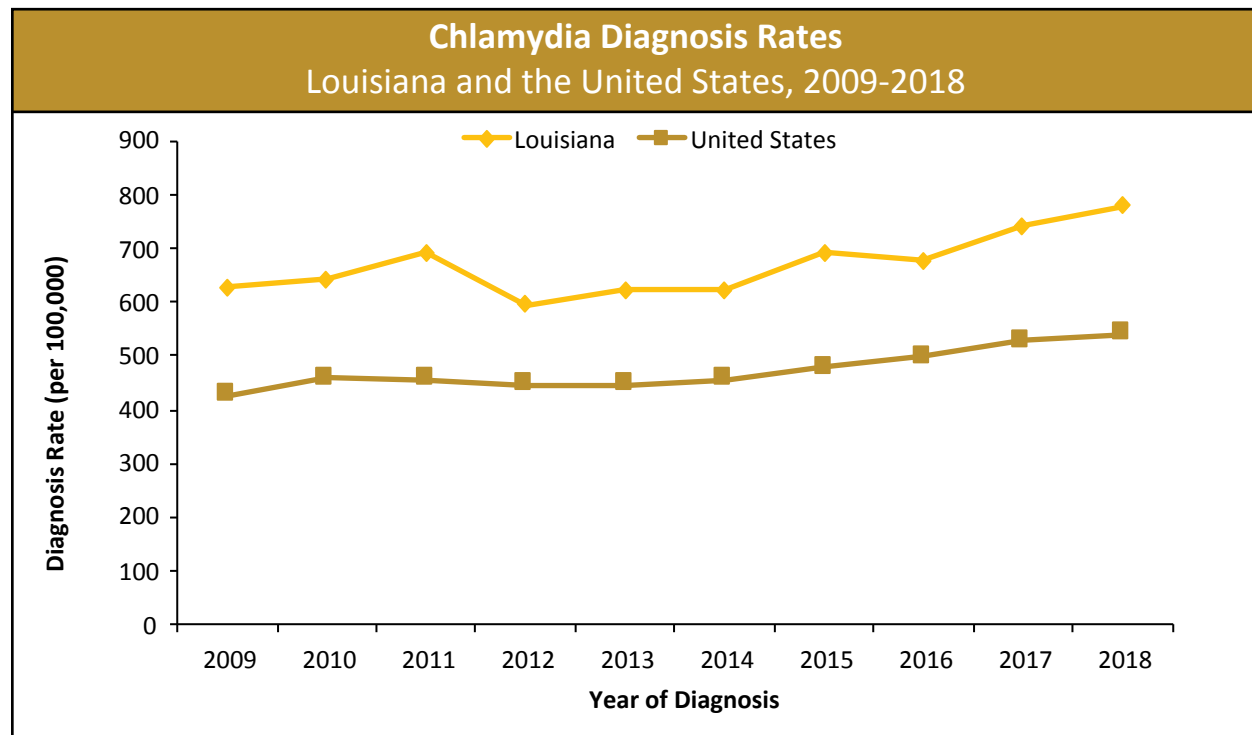
Chlamydia

Caused by the bacterium *Chlamydia trachomatis*, chlamydia is the most commonly diagnosed STD in the United States. Though chlamydial infections are often asymptomatic, symptoms can range from urethritis or vaginitis to severe pelvic inflammatory disease (PID) in women. PID can cause infertility, ectopic pregnancy, and chronic pelvic pain. Pregnant women with chlamydia can pass the infection to their infants during delivery, potentially causing health issues such as ophthalmia neonatorum or pneumonia. The CDC recommends annual screening of all sexually active women under 25 years.^{xxiii}

10-Year Trends in Chlamydia Diagnoses

There were 36,293 diagnoses of chlamydia reported in Louisiana in 2018. This represents a 4% increase in the number of diagnoses from 2017, when 34,749 diagnoses were reported. Over the past 10 years, the number of new chlamydia diagnoses has fluctuated from a low of 27,353 in 2012 to a high of 36,293 in 2018.

Some of the rise in diagnoses may be due to an increase in the number of men, including gay, bisexual, and other men who have sex with men (GBM) being tested due to increased availability of urine testing and extragenital screening or due to increased disease transmission.^{xxiii} In addition, screening for chlamydia is performed for all sexually active female patients age 30 and younger in Louisiana's family planning clinics. Extragenital testing has also been introduced as a standard of care at parish health units for all persons reporting extragenital sexual contact.



- In 2018, the chlamydia diagnosis rate in Louisiana was 778.8 per 100,000 population, an increase of 5% from the 2017 rate of 741.8 diagnoses per 100,000. The 2018 Louisiana rate was 1.4 times higher than the national rate of 539.9 per 100,000 population. It should be noted that in 2012, intensive deduplication efforts were begun in Louisiana, which may account for the reduction in diagnosis counts and rates at that time.

Chlamydia Diagnoses by Sex at Birth, Race/Ethnicity, and Age at Diagnosis

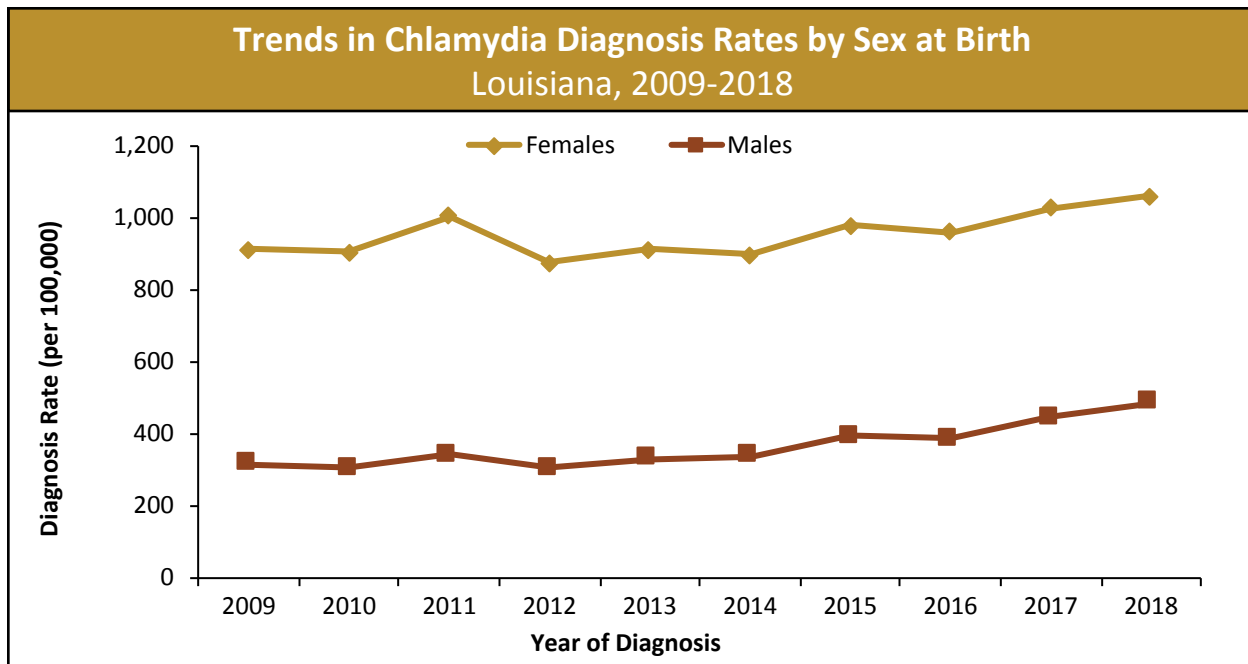
Although STDs affect persons of all sexes, ages, and race/ethnicities in Louisiana, the impact is not the same across all populations. Identifying the populations most at risk of contracting an STD helps in planning STD prevention activities and services, and in determining effective use of limited resources.

Characteristics of Persons Diagnosed with Chlamydia Louisiana, 2018			
	Cases	Percent	Rate*
Total**	36,293	100%	778.8
Sex at Birth			
Female	25,225	69.5%	1,057.6
Male	11,068	30.5%	486.6
Race/Ethnicity			
Black/African American	25,267	69.7%	1,681.0
Hispanic/Latinx	1,381	3.8%	566.4
White	9,255	25.5%	339.1
Other/Multi-race	356	1.0%	-
Unknown	34	0.1%	-
Age Group	Age at Diagnosis		
0-9	12	0.0%	2.0
10-14	366	1.0%	119.1
15-19	11,783	32.5%	3,980.6
20-24	13,121	36.2%	4,242.0
25-29	6,043	16.7%	1,757.6
30-34	2,577	7.1%	796.9
35-39	1,263	3.5%	402.6
40-44	488	1.3%	180.8
45+	639	1.8%	33.8

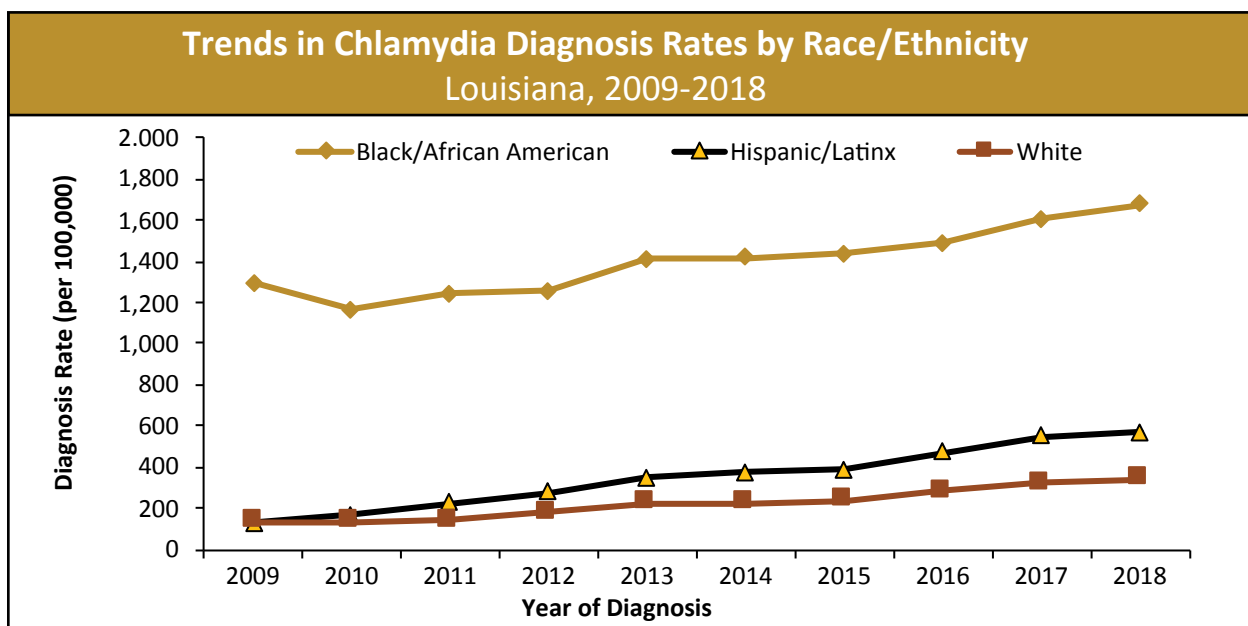
* Rate per 100,000. Rates derived from numerators less than 20 may be unreliable.

** Demographic information not available through all reporting mediums.

- In 2018, there were 25,225 chlamydia diagnoses in females, increasing 3% from the 24,542 diagnoses in 2017. The number of male chlamydia diagnoses in Louisiana increased 8%, from 10,207 in 2017 to 11,068 in 2018. Overall, 69.5% of reported chlamydia diagnoses were among women.
- There is a significant racial disparity for chlamydia diagnoses in Louisiana. The rate of chlamydia in Blacks in Louisiana was five times higher than the rate in Whites, and three times higher than among Hispanic/Latinx persons.
- In 2018, 70% of all chlamydia diagnoses with reported race were Black and 26% were White. Only 32% of Louisiana's population is Black.
- In 2018, 70% of new chlamydia diagnoses were among youth under 25 years of age. From 2017 to 2018, the number of new chlamydia diagnoses increased in all age groups except in children under 10 years of age.



- In 2018, the female chlamydia rate of 1,057.6 per 100,000 females was 2.2 times higher than the male rate of 486.6 per 100,000 males.
- From 2009 to 2018, the chlamydia diagnosis rate for males in Louisiana increased by 1.5 times, from 316.2 per 100,000 males to 486.6 per 100,000 males.
- From 2009 to 2018, the chlamydia diagnosis rate for females in Louisiana increased by 16%, from 910.7 per 100,000 females to 1,057.6 per 100,000 females.



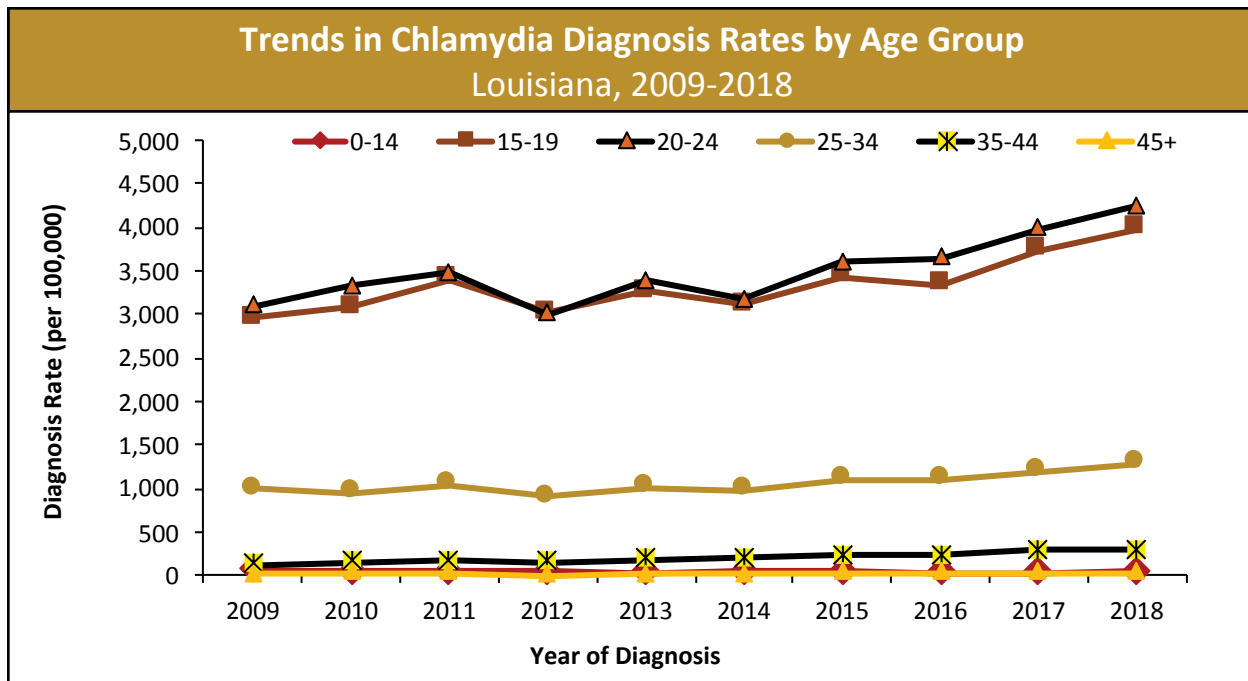
- The chlamydia diagnosis rate for Whites and Hispanic/Latinx persons in Louisiana has steadily risen over the past 10 years. The rate for Whites increased from a low of 133.5 per 100,000 in 2009 to a high of 339.1 per 100,000 in 2018. The rate for Hispanic/Latinx persons increased from a low of 130.1 per 100,000 in 2009 to a high of 566.4 per 100,000 in 2018. Louisiana has also improved surveillance efforts to increase the proportion of cases with recorded race/ethnicity.
- The diagnosis rate for Blacks has consistently been higher than the rate for other race/ethnicities.
- In 2018, the chlamydia rate among Black persons was 1,681 per 100,000, a 30% increase since 2009.

Race/Ethnicity of Persons Diagnosed with Chlamydia by Sex at Birth Louisiana, 2018			
	Cases	Percent	Rate*
Total**	36,293	100%	778.8
Female	25,225	69.5%	1,057.6
American Indian/Alaskan Native	80	0.3%	523.8
Asian/Pacific Islander	161	0.6%	381.2
Black/African American	17,229	68.4%	2,178.0
Hispanic/Latina	995	3.9%	873.8
White	6,728	26.7%	485.0
Other/ Multirace	2	0.0%	-
<i>Unknown</i>	<i>30</i>	<i>0.1%</i>	<i>-</i>
Male	11,068	30.5%	486.6
American Indian/Alaskan Native	26	0.2%	175.2
Asian/Pacific Islander	83	0.8%	201.4
Black/African American	8,038	72.7%	1,128.8
Hispanic/Latino	386	3.5%	297.0
White	2,527	22.8%	188.3
Other/ Multirace	4	0.0%	-
<i>Unknown</i>	<i>4</i>	<i>0.0%</i>	<i>-</i>

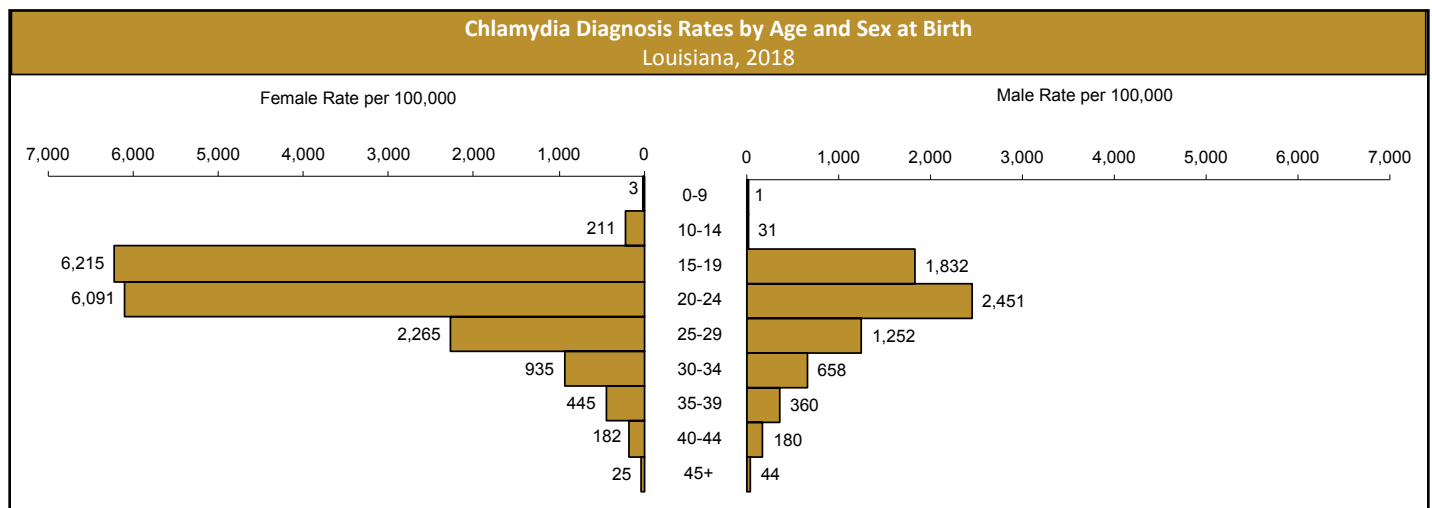
* Rate per 100,000

** Demographic information not available through all reporting mediums

- Among females diagnosed with chlamydia with a reported race, 68% were Black, 27% were White, and 4% were Hispanic/Latina. Of the diagnoses in males with a reported race, 73% were Black, 23% were White, and 4% were Hispanic/Latino.
- The rate of chlamydia in Black females was two times greater than the rate in Black males, and the chlamydia rate in White females was over two and half times higher than the rate in White males. The rate in Hispanic/Latina females was almost three times that of Hispanic/Latino males.
- The data do indicate that there are a substantial number of missed diagnoses among males.

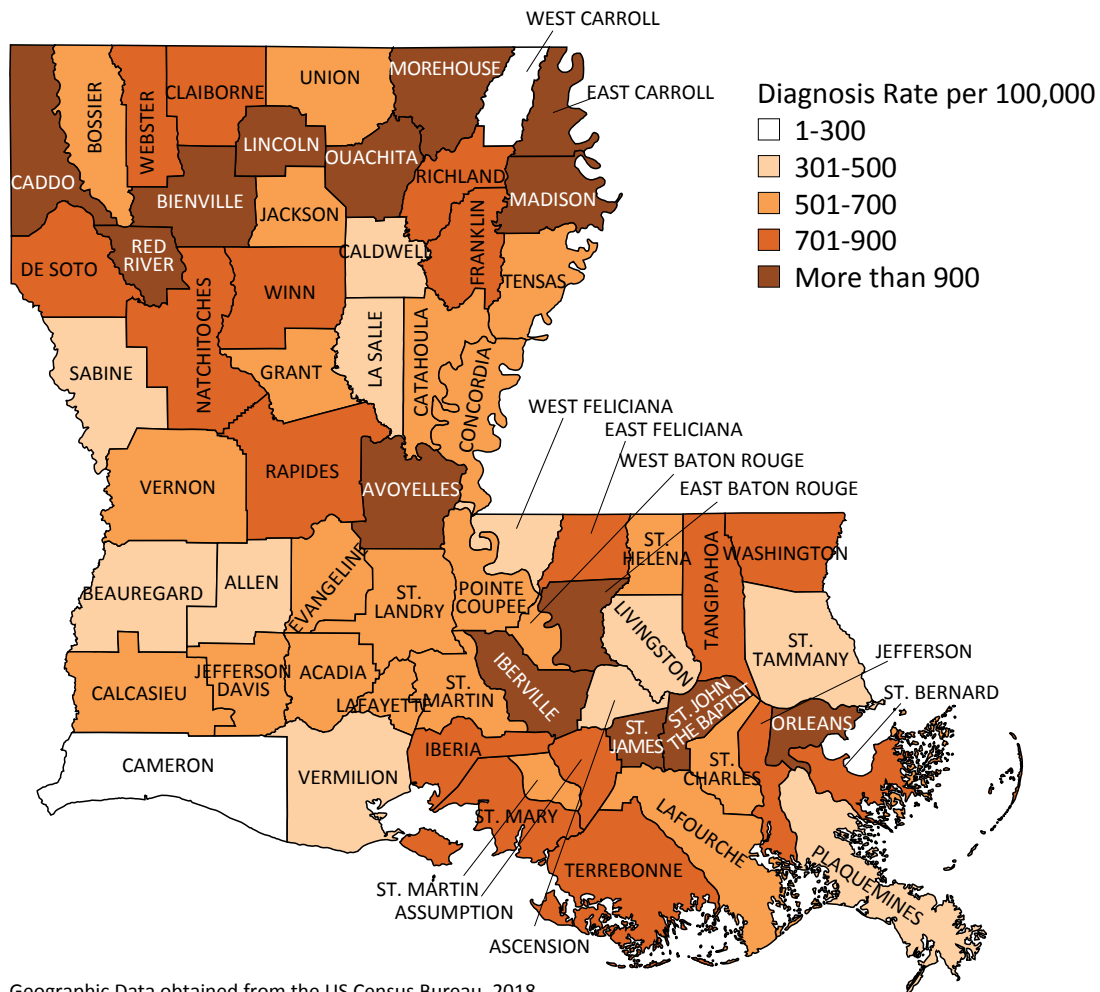


- Between 2009 and 2018, the highest rates of chlamydia diagnoses occurred among persons aged 20-24 and 15-19. Since 2014, the rate per 100,000 among 15-19 year olds increased 28%, and the rate increased 34% among 20-24 year olds.

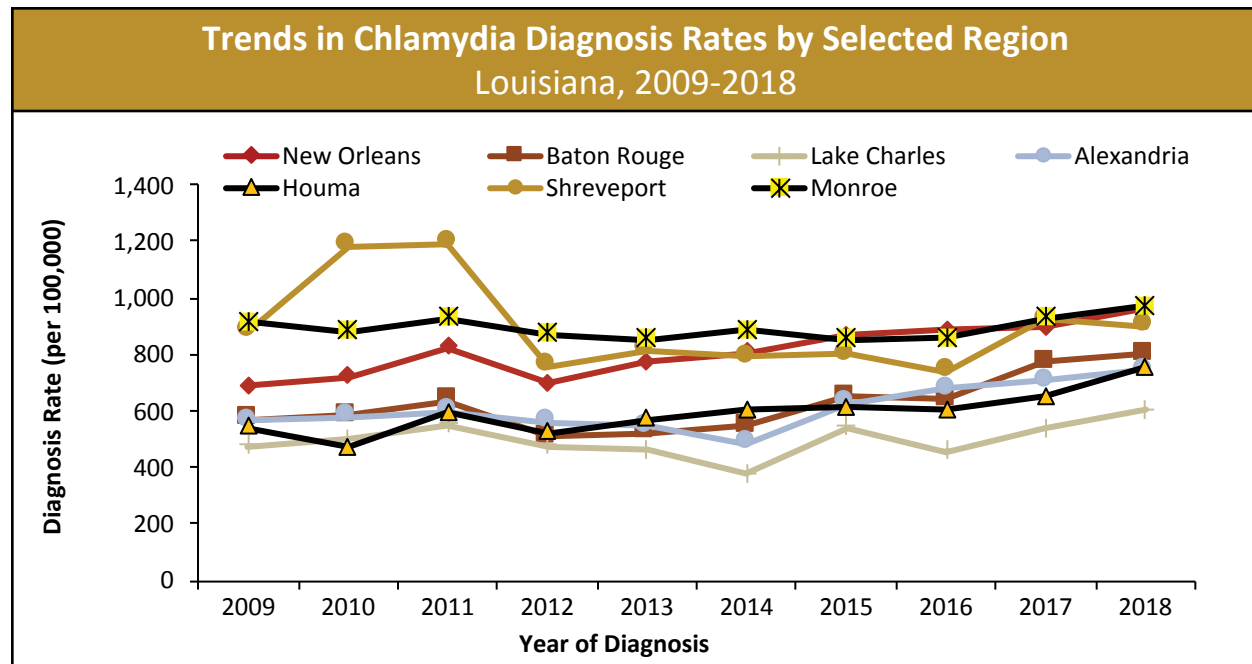


- In 2018, the highest age-specific rate was among 15-19 year old females, followed very closely by females age 20-24.
- Among males in 2018, the highest age-specific rate was among 20-24 year olds, followed by males age 15-19. It is only in the 45+ age group that the male diagnosis rate is higher than the female rate.

Chlamydia Diagnosis Rates by Parish, Louisiana, 2018



- Chlamydia diagnosis rates vary by parish in Louisiana. There were persons diagnosed with chlamydia in all 64 parishes in 2018.
- A total of fourteen parishes had a chlamydia diagnoses rate greater than 900 per 100,000 (Avoyelles, Bienville, Caddo, East Baton Rouge, East Carroll, Iberville, Lincoln, Madison, Morehouse, Orleans, Ouachita, Red River, St. James, and St. John the Baptist), an increase from eleven parishes with a chlamydia diagnoses rate greater than 900 per 100,000 in 2017.
- Additional breakdowns by race/ethnicity and parish can be found in the Appendix.

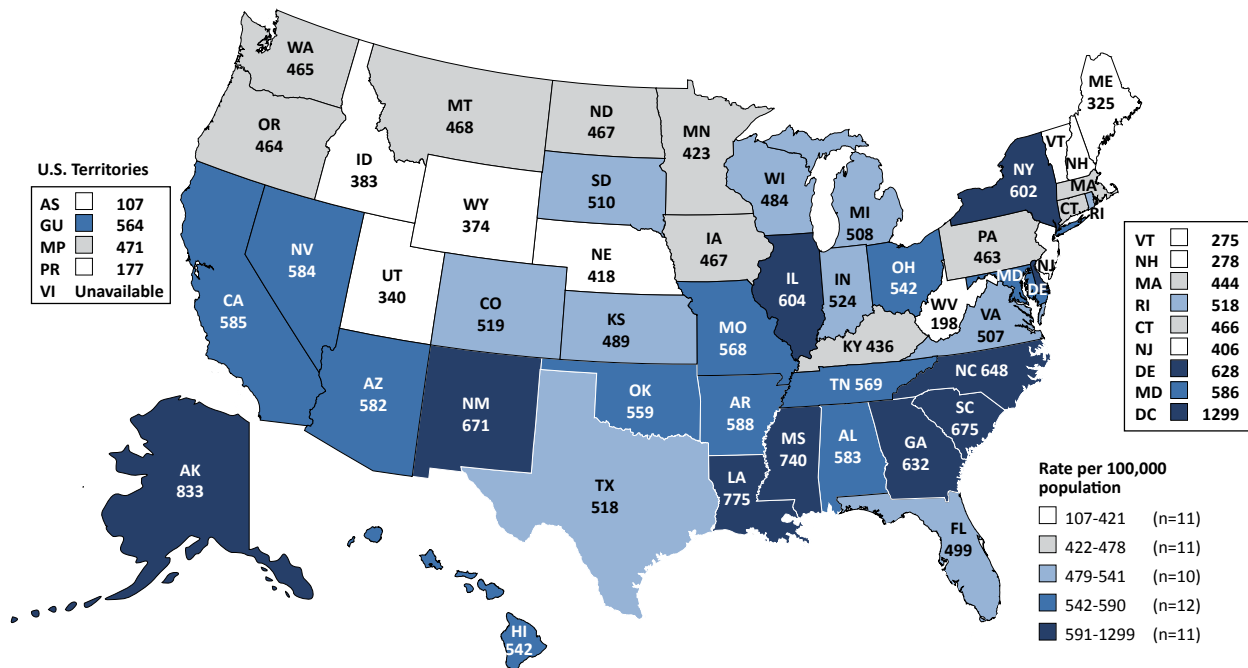


- From 2012 to 2014, the Monroe region had the highest chlamydia diagnosis rate in the state. In 2015 and 2016, the diagnosis rate in the New Orleans region surpassed the rate in the Monroe region. In 2017 and 2018, the Monroe region once again had the highest chlamydia diagnosis rate in the state. In 2018, the second highest diagnosis rate was in the New Orleans region and the third highest chlamydia diagnosis rate was in the Shreveport region.
- From 2017 to 2018, the Houma region and the Lake Charles region had the highest increases in chlamydia diagnosis rates, rising 16% in the Houma region and 13% in the Lake Charles region.
- From 2017 to 2018, the Alexandria region rate has steadily increased since 2014. From 2014 to 2018, the Alexandria region rate has increased 53%.

New Chlamydia Diagnoses by Region and Year Louisiana, 2014-2018										
	2014		2015		2016		2017		2018	
Louisiana	28,896	%	32,305	%	31,727	%	34,749	%	36,293	%
1-New Orleans	7,138	25%	7,754	24%	7,942	25%	8,060	23%	8,599	24%
2-Baton Rouge	3,711	13%	4,430	14%	4,370	14%	5,296	15%	5,460	15%
3-Houma	2,441	8%	2,482	8%	2,425	8%	2,604	8%	3,002	8%
4-Lafayette	3,420	12%	3,746	12%	3,674	12%	3,628	10%	3,707	10%
5-Lake Charles	1,111	4%	1,618	5%	1,376	4%	1,622	5%	1,839	5%
6-Alexandria	1,499	5%	1,913	6%	2,066	7%	2,148	6%	2,240	6%
7-Shreveport	4,328	15%	4,358	14%	4,023	13%	5,005	14%	4,822	13%
8-Monroe	3,158	11%	3,025	9%	3,033	10%	3,268	9%	3,387	9%
9-Hammond/Slidell	2,024	7%	2,529	8%	2,772	9%	3,077	9%	3,193	9%
Unknown	66	0%	449	1%	46	0%	41	0%	44	0%

- The New Orleans region had the highest number of new chlamydia diagnoses in 2018, followed by the Baton Rouge region and the Shreveport region. Over the past five years, the New Orleans region has had between 23% and 25% of all new chlamydia diagnoses in Louisiana.

Chlamydia Diagnosis Rates in the United States (2018)^{xxiii}



The above map represents state rates that were calculated using 2017 census data and was presented in the *2018 STD Surveillance Report*. For all other instances of the Louisiana rate in this report, the rate has been recalculated using the 2018 census data for the denominator.

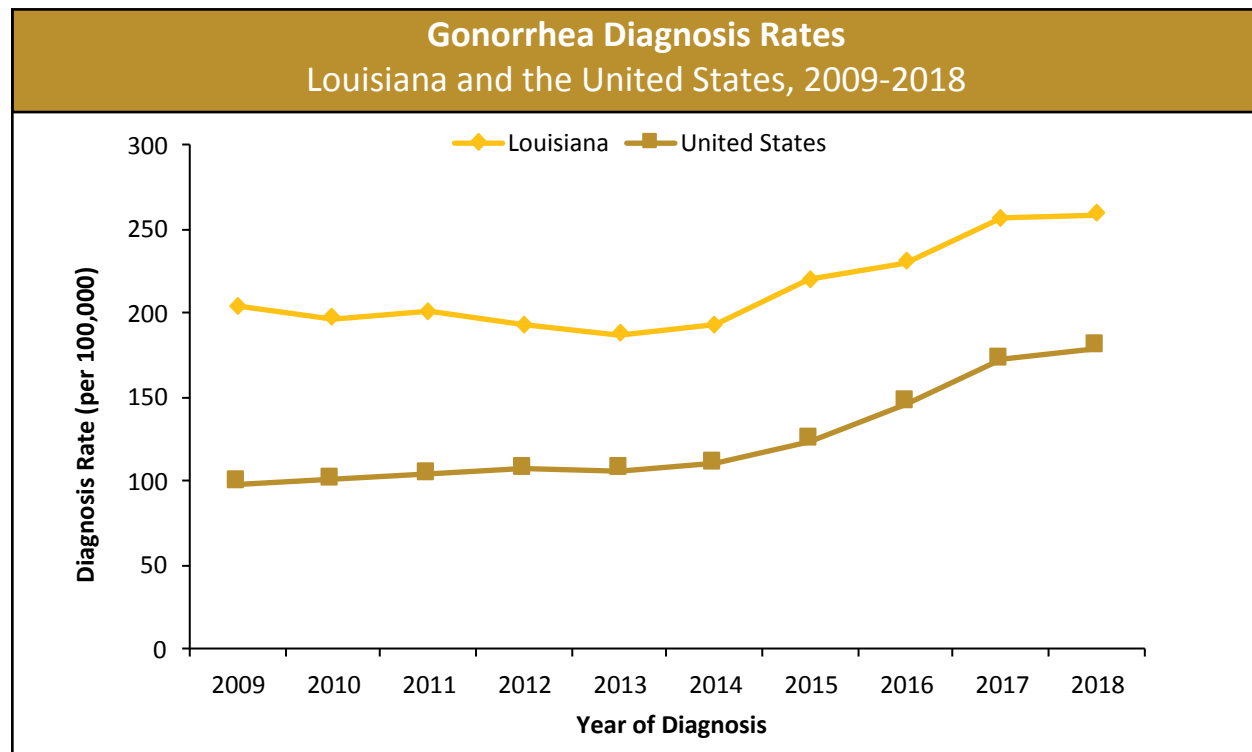
- On October 8, 2019, the CDC released their *2018 STD Surveillance Report*, which provides national and state-specific STD data. The CDC report uses estimated 2017 Census data while the Louisiana report uses estimated 2018 Census data, resulting in slightly different rate estimates between the reports.
- In the United States, there were 1,758,668 new chlamydia diagnoses reported in 2018, for a national chlamydia rate of 539.9 diagnoses per 100,000 population. In 2017, the national chlamydia diagnosis rate was 528.8 per 100,000 population.^{xxiii}
- The national chlamydia diagnosis rate increased 2.1% from 2017 to 2018.^{xxiii}
- Nationally, the rate of females diagnosed with chlamydia rose less than 1% from 2017 to 2018, while the rate in males increased by nearly 5%. Potential reasons for the increase in males include increased disease transmission, improved screening coverage, the use of more sensitive tests, an increased use of electronic laboratory reports, and changes in reporting practices.^{xxiii}
- In 2018, Louisiana ranked 2nd in the nation for chlamydia diagnosis rates (778.8 per 100,000). Alaska (832.5 per 100,000) and Mississippi (740.1 per 100,000) ranked 1st and 3rd respectively.^{xxiii} The District of Columbia has the highest rate in the nation but is not included in national state rankings.
- Louisiana's 2018 chlamydia diagnosis rate was 1.4 times greater than the national rate.^{xxiii}

Gonorrhea

Gonorrhea is caused by the bacterium *Neisseria gonorrhea*. It is the second most commonly reported STD in the United States. If left untreated, gonorrhea can affect fertility in males and females, increase the risk of HIV infection and transmission, and cause other serious health problems. Gonorrhea is a common cause of epididymitis in men and PID in women, and both of these conditions can lead to infertility. Pregnant women with a gonorrhea infection may infect their infants during delivery, which can potentially cause blindness, joint infection, or a blood infection.^{xxiii} Resistance to antimicrobials is important in considering the treatment of gonorrhea infections. Increasing resistance to fluoroquinolones and a decline in susceptibility to cefixime has been noted. Therefore, only dual therapy with ceftriaxone and either azithromycin or doxycycline is now recommended by the CDC.^{xxiv}

10-Year Trends in Gonorrhea Diagnoses

There were 12,043 gonorrhea diagnoses in Louisiana in 2018. The number of diagnoses remained relatively unchanged from 2017, when 12,014 diagnoses were reported. Over the past 10 years, the number of new gonorrhea diagnoses has fluctuated from a low of 8,669 in 2013 to a high of 12,043 in 2018.



- In 2018, the gonorrhea diagnosis rate in Louisiana was 258.4 per 100,000 population, a less than 1% increase from 256.5 diagnoses per 100,000 in 2017. The 2018 Louisiana rate was 1.4 times greater than the national rate of 179.1 per 100,000 population.
- From 2013 to 2018, the gonorrhea diagnosis rate in Louisiana rose 38%.

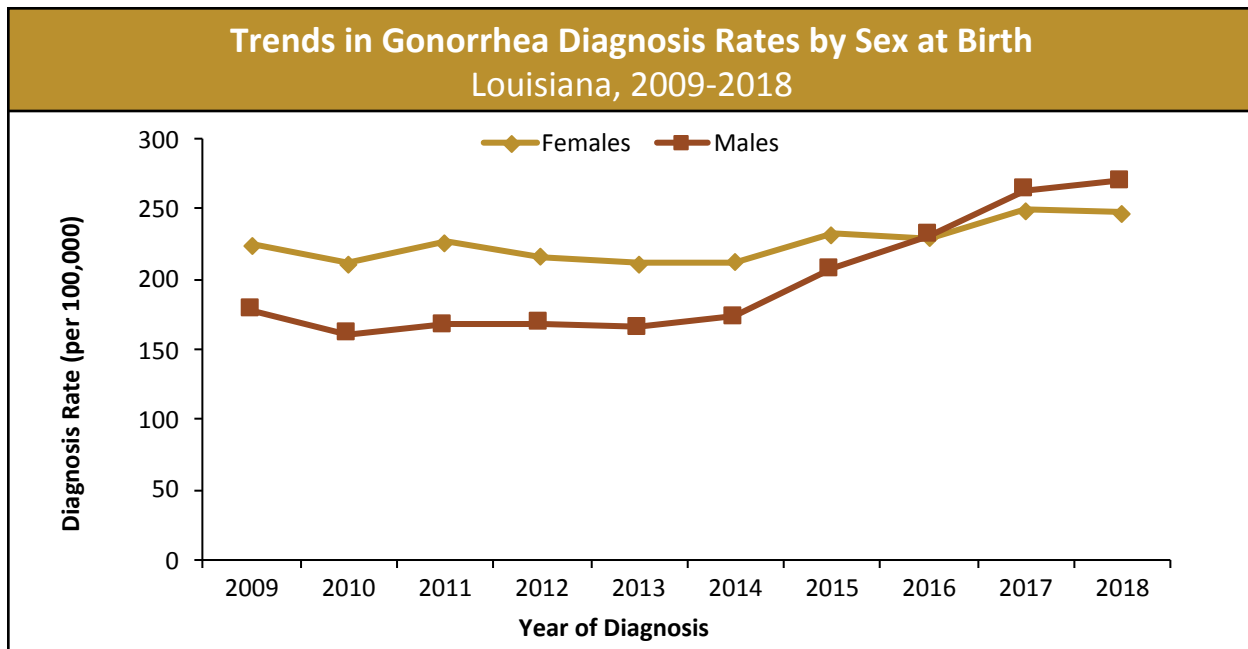
Gonorrhea Diagnoses by Sex at Birth, Race/Ethnicity, and Age at Diagnosis

Characteristics of Persons Diagnosed with Gonorrhea Louisiana, 2018			
	Cases	Percent	Rate*
Total**	12,043	100%	258.4
Sex at Birth			
Female	5,904	49.0%	247.5
Male	6,139	51.0%	269.9
Race/Ethnicity**			
Black/African American	9,061	75.3%	602.8
Hispanic/Latinx	242	2.0%	99.3
White	2,640	21.9%	96.7
Other/Multi-race	94	0.8%	-
<i>Unknown</i>	6	0.0%	-
Age Group			
0-9	4	0.0%	n/a
10-14	86	0.7%	28.0
15-19	2,751	22.8%	929.4
20-24	3,793	31.5%	1,226.3
25-29	2,446	20.3%	711.4
30-34	1,338	11.1%	413.8
35-39	652	5.4%	207.9
40-44	370	3.1%	137.1
45+	603	5.0%	31.9

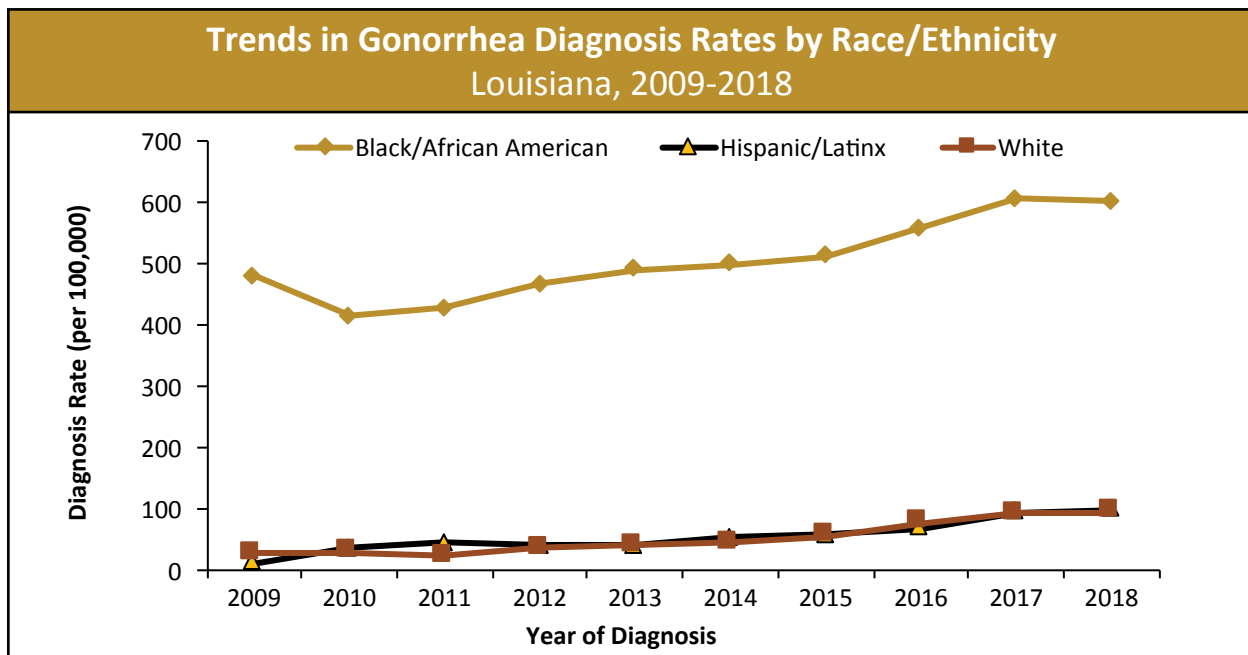
*Rate per 100,000. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

** Demographic information not available through all reporting mediums

- In 2018, 5,904 gonorrhea diagnoses were reported in females, a 1% decrease from the 5,975 diagnoses in 2017. The number of gonorrhea diagnoses in males increased by 2%, from 6,039 diagnoses in 2017 to 6,139 diagnoses in 2018.
- There is a significant racial disparity in gonorrhea diagnoses in Louisiana. In 2018, the rate of new gonorrhea diagnoses among Blacks was 602.8 per 100,000, over six times higher than among Whites as well as Hispanic/Latinx persons.
- In 2018, 75% of all gonorrhea diagnoses with reported race were Black, 22% were White, and 2% were Hispanic/Latinx. Only 32% of Louisiana's population is Black.
- In 2018, over 55% of new gonorrhea diagnoses were among youth under 25 years of age. From 2017 to 2018, the number of new diagnoses decreased in persons' age 14 and younger, age 15-19, and age 20-24 by 2%, 2%, and 7% respectively. However, new diagnoses rose among persons age 25 and older. Increases in the number of diagnoses ranged from 4% in persons age 35-44 to 16% in persons 45 and older.



- 2016 marked the first year that the gonorrhea case rate among males surpassed the rate among females.
- In 2018, the male gonorrhea diagnosis rate of 269.9 per 100,000 males was 9% higher than the female diagnosis rate of 247.5 per 100,000 females. 2018 marks the third year in a row that the male diagnosis rate exceeded the female diagnosis rate in Louisiana.
- The difference between the female and male diagnosis rates was greatest in 2011. Since 2013, the male diagnosis rate has increased 63% to its current height in 2018.



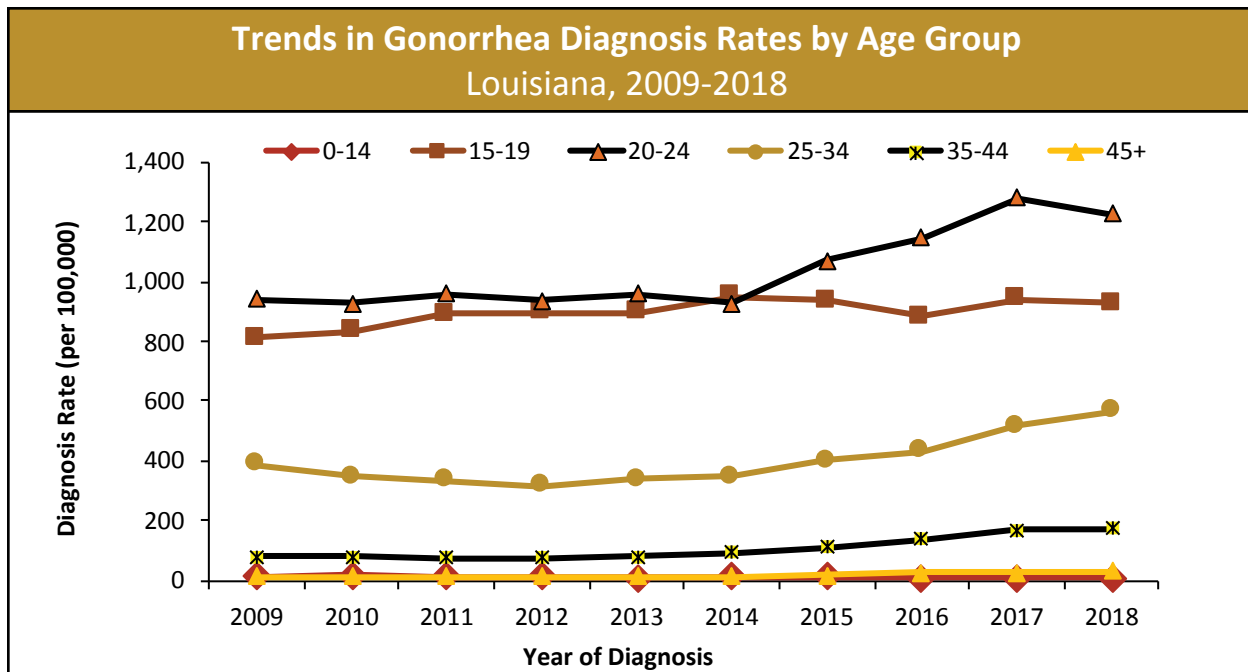
- The gonorrhea rate for Blacks has increased steadily between 2010 and 2017 from a low of 414.4 per 100,000 in 2010 to a high of 605.7 per 100,000 in 2017. However, the rate decreased slightly from 2017 to 2018. The rate also rose in Hispanic/Latinx persons, from a low of 13.5 per 100,000 in 2009 to a high of 99.3 per 100,000 in 2018.
- The diagnosis rate for Blacks has consistently been higher than the rate for other race/ethnicities. The rate of gonorrhea has consistently exceeded 400 per 100,000 Blacks, while the rate for Whites and Hispanic/Latinx persons has remained under 100 per 100,000 over the past ten years.

Race/Ethnicity of Persons Diagnosed with Gonorrhea by Sex at Birth Louisiana, 2018			
	Cases	Percent	Rate*
Total**	12,043	100%	258.4
Female	5,904	49.0%	247.5
American Indian/Alaskan Native	17	0.3%	111.3
Asian/Pacific Islander	24	0.4%	56.8
Black/African American	4,416	74.9%	558.2
Hispanic/Latina	94	1.6%	82.6
White	1,348	22.9%	97.2
Other/ Multi-race	0	0.0%	-
<i>Unknown</i>	5	0.1%	-
Male	6,139	51.0%	269.9
American Indian/Alaskan Native	12	0.2%	80.9
Asian/Pacific Islander	41	0.7%	99.5
Black/African American	4,645	75.7%	652.3
Hispanic/Latino	148	2.4%	113.9
White	1,292	21.0%	96.3
Other/ Multi-race	0	0.0%	-
<i>Unknown</i>	1	0.0%	-

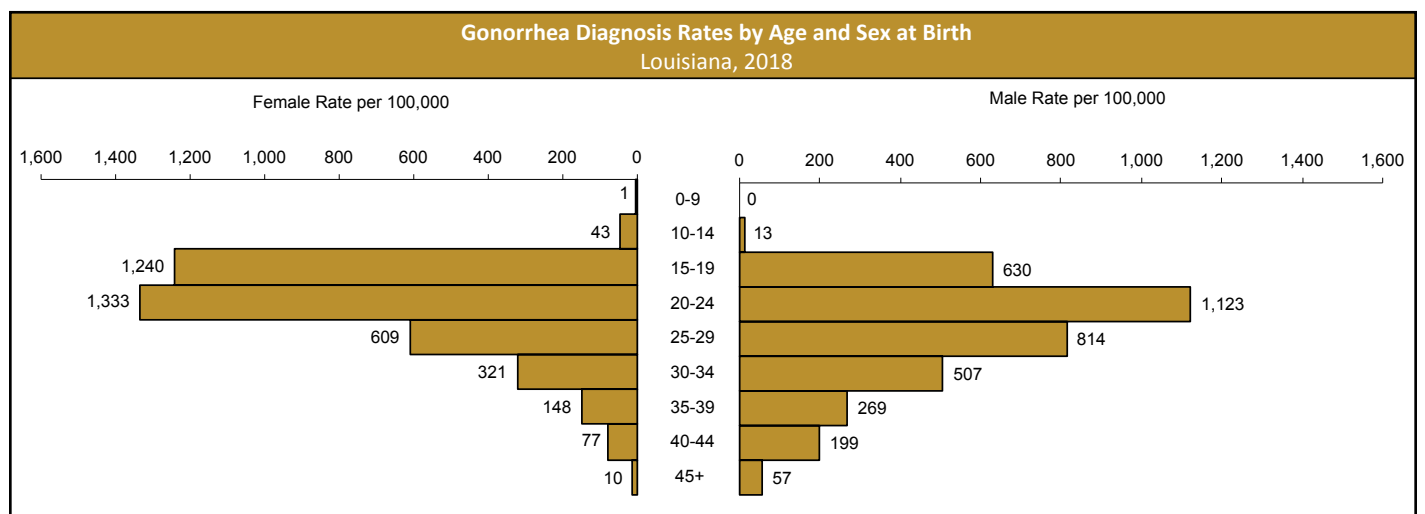
*Rate per 100,000. Rates derived from numerators less than 20 may be unreliable.

**Demographic information not available through all reporting mediums.

- In 2018, 75% of females and 76% of males with reported race were Black, while 23% of females and 21% of males were White.
- The gonorrhea diagnosis rate was 17% higher in Black males than in Black females and the diagnosis rate was 38% higher in Hispanic/Latino males than in Hispanic/Latina females. Among Whites, the gonorrhea diagnosis rate was 1% higher in females than males.

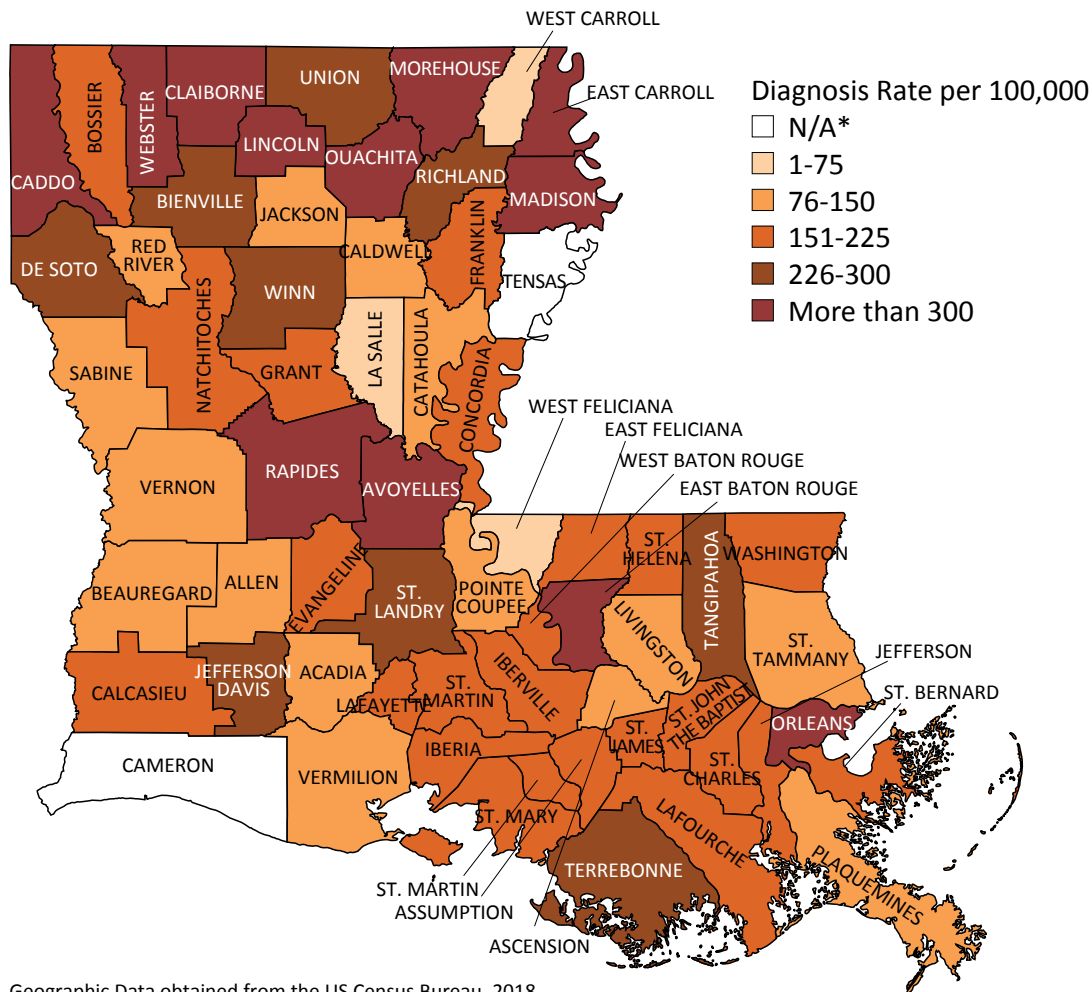


- The highest rate of gonorrhea diagnoses occurred in persons aged 20-24. From 2014 to 2017, the gonorrhea diagnosis rate increased nearly 38% among persons age 20-24 from 927.4 per 100,000 to 1,279.4 per 100,000. In 2018, the rate decreased by 4% to 1,226.3 per 100,000.
- The second highest rate occurred among persons aged 15-19. Since 2016, the rate of gonorrhea among 15-19 year olds has increased 5%.
- Since 2012, the rate among 25-34 year olds has increased 79%.

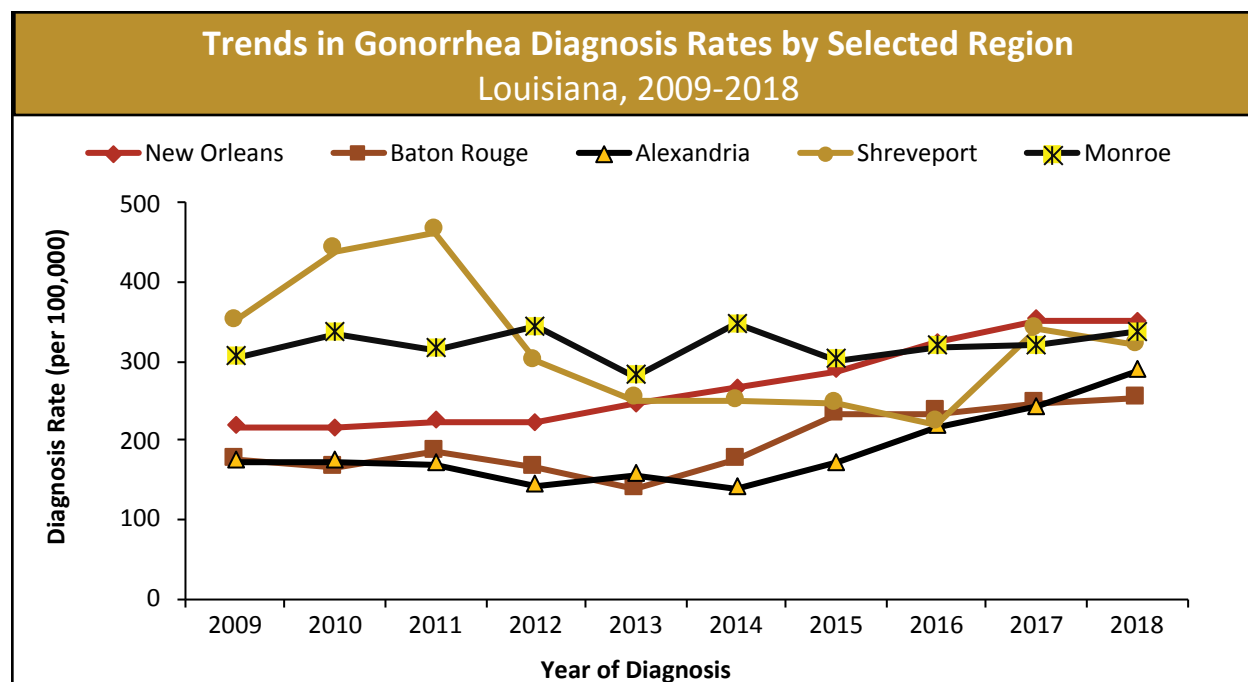


- In 2018, the highest age specific gonorrhea rate was among 20-24 year old females, followed by 15-19 year old females.
- Among males in 2018, the highest age-specific rate was among 20-24 year olds, followed by males age 25-29. Among persons 25 and older, the diagnosis rate in males was higher than in females.

Gonorrhea Diagnosis Rates by Parish, Louisiana, 2018



- Gonorrhea diagnosis rates vary by parish in Louisiana. In 2018, there were persons diagnosed with gonorrhea in 62 of the 64 parishes. There were no gonorrhea diagnoses reported in Cameron or Tensas parish.
- A total of twelve parishes had a gonorrhea diagnoses rate greater than 300 per 100,000 (Avoyelles, Caddo, Claiborne, East Baton Rouge, East Carroll, Lincoln, Madison, Morehouse, Orleans, Ouachita, and Rapides), decreasing from seventeen parishes in 2017.
- Additional breakdowns by race/ethnicity and parish can be found in the Appendix.

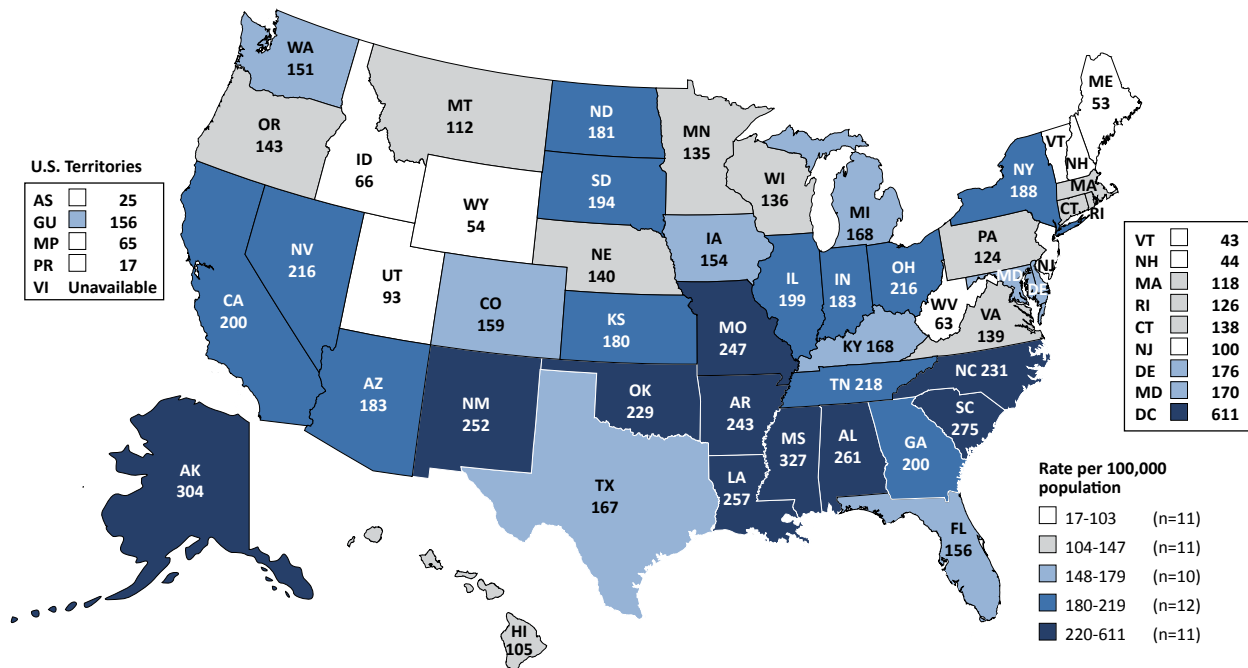


- In 2014 and 2015, the New Orleans region ranked 2nd for the gonorrhea diagnosis rate. Since 2016, the New Orleans region has had the highest gonorrhea diagnosis rate.
- Until 2012, the gonorrhea diagnosis rate was highest in the Shreveport region. In 2018, Shreveport had the 3rd highest rate. From 2012 to 2015, the Monroe region had the highest gonorrhea rate, decreasing to 2nd in 2016, to 3rd in 2017, and back up to 2nd in 2018.
- From 2017 to 2018 The Alexandria region ranked among the top five for gonorrhea diagnosis rate increasing 19% from 242.6 per 100,000 persons to 287.8 per 100,000. Since 2014, the gonorrhea rate in the Alexandria region has more than doubled.

New Gonorrhea Diagnoses by Region and Year Louisiana, 2014-2018										
	2014		2015		2016		2017		2018	
Louisiana	8,978	%	10,274	%	10,783	%	12,014	%	12,043	%
1-New Orleans	2,363	26%	2,568	25%	2,900	27%	3,170	26%	3,124	26%
2-Baton Rouge	1,187	13%	1,583	16%	1,600	15%	1,683	14%	1,718	14%
3-Houma	553	6%	723	7%	786	7%	853	7%	814	7%
4-Lafayette	1,123	13%	1,189	12%	1,227	11%	1,217	10%	1,155	10%
5-Lake Charles	310	3%	489	5%	428	4%	513	4%	564	5%
6-Alexandria	428	5%	525	5%	660	6%	739	6%	865	7%
7-Shreveport	1,358	15%	1,339	13%	1,194	11%	1,840	15%	1,716	14%
8-Monroe	1,233	14%	1,066	10%	1,129	10%	1,125	9%	1,174	10%
9-Hammond/Slidell	408	5%	671	7%	849	8%	869	7%	904	8%
Unknown	15	0%	121	1%	10	0%	5	0%	9	0%

- In 2018, the New Orleans region had the highest number of gonorrhea diagnoses, followed by the Baton Rouge region, and the Shreveport region. From 2013 to 2018, the New Orleans region had between 25% and 27% of all gonorrhea diagnoses in Louisiana.

Gonorrhea Diagnosis Rates in the United States (2018)^{xxiii}



The above map represents state rates that were calculated using 2017 census data and was presented in the *2018 STD Surveillance Report*. For all other instances of the Louisiana rate in this report, the rate has been recalculated using the 2018 census data for the denominator.

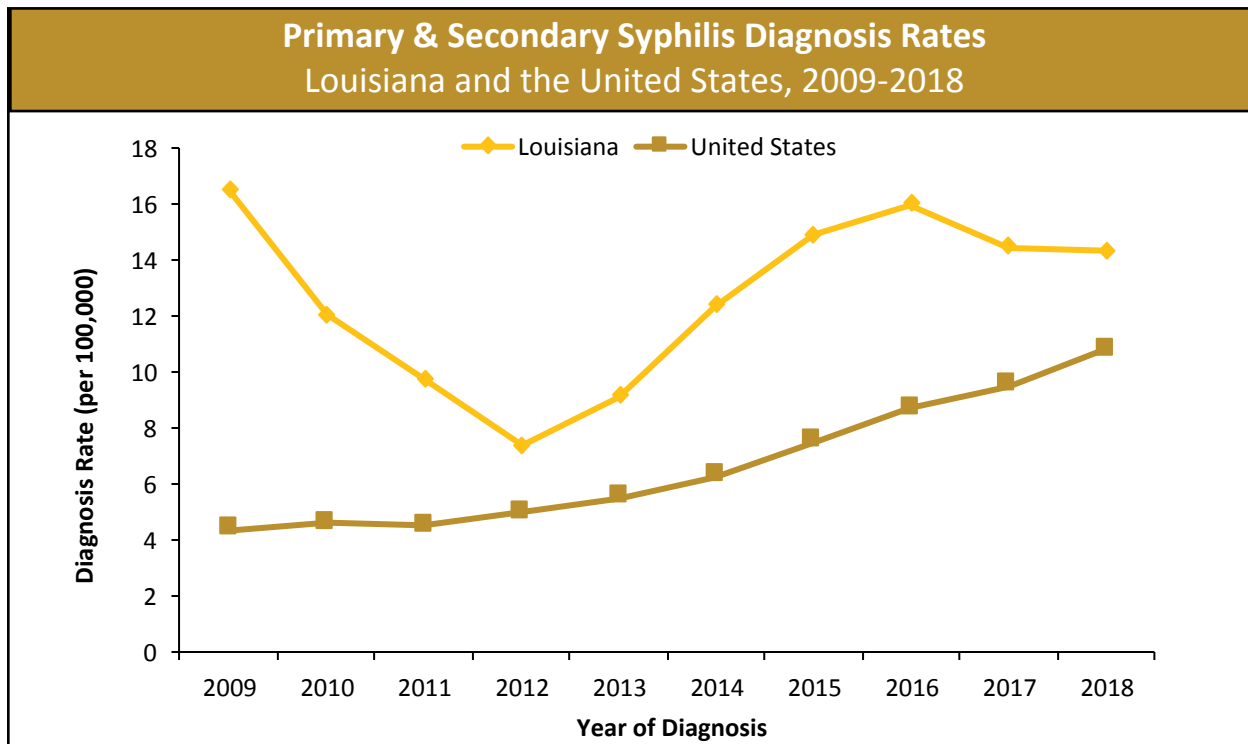
- According to the most recent CDC report, there were 583,405 new gonorrhea diagnoses reported in the United States in 2018, for a national gonorrhea diagnosis rate of 179.1 diagnoses per 100,000 population. In 2017, the national gonorrhea diagnosis rate was 171.9 per 100,000 population.^{xxiii}
- The national gonorrhea diagnosis rate increased 4% from 2017 to 2018.^{xxiii}
- Nationally, the gonorrhea diagnosis rate in males remained higher than the rate in females in 2018, rising 6% from 2017. The national rate in females increased 4%. Potential reasons for the increase in males include increased disease transmission and detection (e.g., through increased screening among MSM). This increase may also be due to changes in testing technology, more sensitive tests, and changes in reporting practices.^{xxiii}
- In 2018, Louisiana ranked 5th in the nation for gonorrhea diagnosis rates (258.4 per 100,000). Mississippi (326.7 per 100,000), Alaska (303.7 per 100,000), South Carolina (274.7 per 100,000), and Alabama (261.4 per 100,000) ranked 1st, 2nd, 3rd, and 4th respectively in 2018.^{xxiii} The District of Columbia has the highest rate in the nation but is not included in national state rankings.
- Louisiana's 2018 gonorrhea diagnosis rate was 258.4 per 100,000 population, 44% greater than the national rate of 179.1 per 100,000.^{xxiii}

Primary & Secondary Syphilis

Syphilis is one of the three most commonly diagnosed STDs. It is caused by the bacterium *Treponema pallidum* and is typically transmitted through contact with an infected genital ulcer, though ulcers can be found in other sites on the body. These ulcers also facilitate the sexual transmission and contraction of HIV. The primary and secondary stages of syphilis are the most infectious stages.^{xxiii} If left untreated, syphilis can cause serious health problems that may include neurologic involvement. Pregnant women with untreated syphilis may experience stillbirth or give birth to a child with congenital defects. Penicillin G is the preferred drug for treating all stages of syphilis. The preparation, dosage, and length of treatment depend on the stage and clinical manifestation of the disease.^{xxiv}

10-Year Trends in P&S Syphilis Diagnoses

In 2018 there were 669 new P&S syphilis diagnoses, a 1.5% decrease compared to 679 diagnoses in 2017. From 2009 to 2018, the P&S syphilis diagnosis rate has ranged from a low of 7.4 per 100,000 in 2012 to a high of 16.5 per 100,000 in 2009. From 2006 to 2011 and from 2015 to 2016, Louisiana had the highest P&S syphilis rate in the nation.^{xxiii}



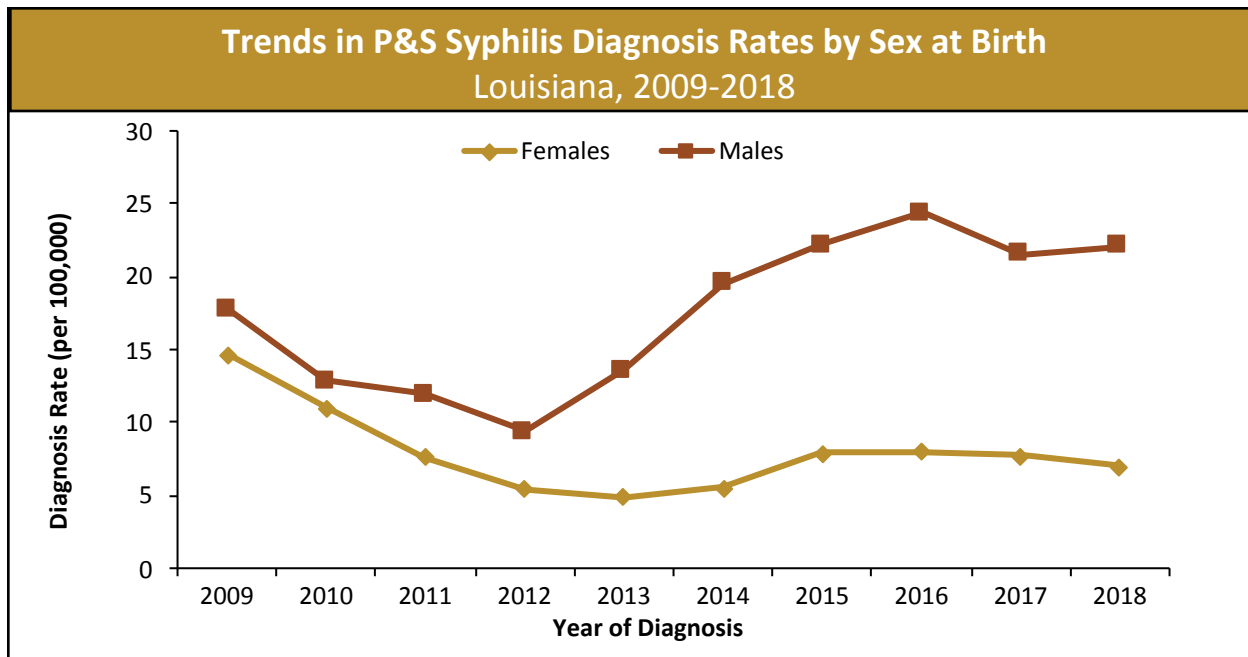
- In 2018, the number of P&S syphilis cases in the United States was the highest since 1991. The P&S syphilis diagnosis rate in Louisiana was 14.4 per 100,000 population, which was 1.3 times the national rate of 10.8 per 100,000 population.
- Across the nation, the rate of P&S syphilis has increased two and a half times in the past ten years. From 2012 to 2016, Louisiana experienced its own significant rate increase, but between 2016 and 2018, had a 10% decrease.

P&S Syphilis Diagnoses by Sex at Birth, Race/Ethnicity, and Age at Diagnosis

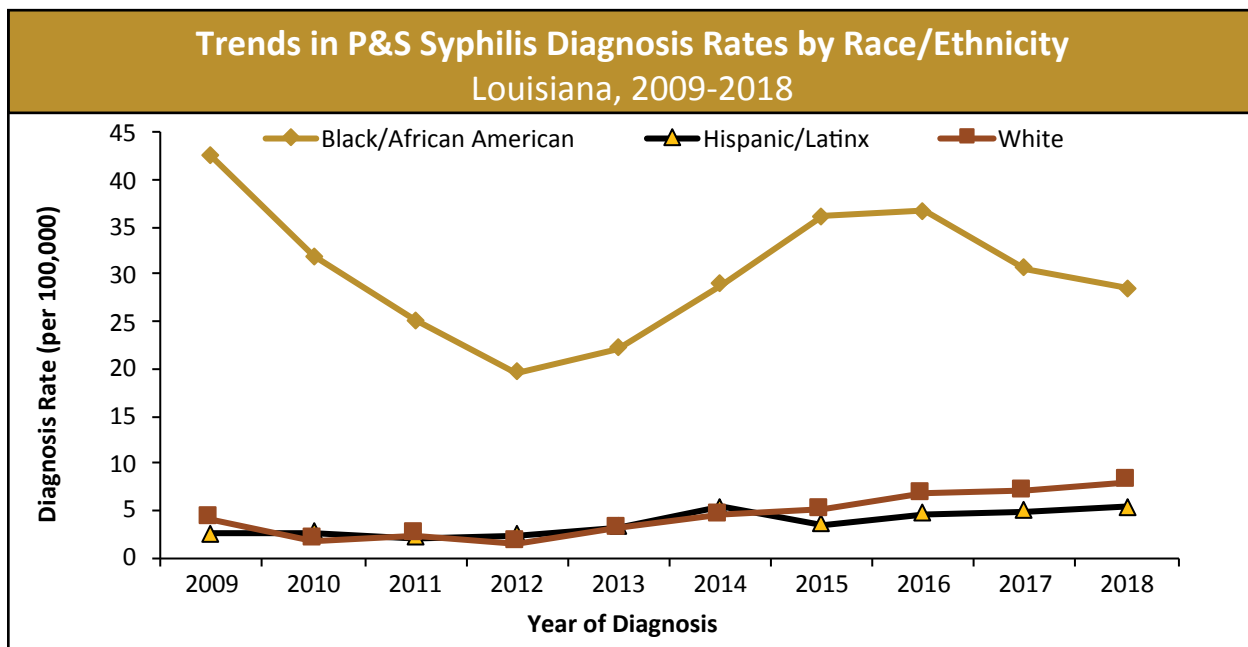
Characteristics of Persons Diagnosed with Primary & Secondary Syphilis Louisiana, 2018			
	Cases	Percent	Rate*
Total	669	100%	14.4
Sex at Birth			
Female	166	24.8%	7.0
Male	503	75.2%	22.1
Race/Ethnicity			
Black/African American	428	64.0%	28.5
Hispanic/Latinx	13	1.9%	5.3
White	220	32.9%	8.1
Other/Multi-race	8	1.2%	-
Age Group	Age at Diagnosis		
0-9	1	0.1%	n/a
10-14	2	0.3%	n/a
15-19	51	7.6%	17.2
20-24	150	22.4%	48.5
25-29	167	25.0%	48.6
30-34	111	16.6%	34.3
35-39	67	10.0%	21.4
40-44	40	6.0%	14.8
45+	80	12.0%	4.2

* Rate per 100,000. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, 166 females were diagnosed with P&S syphilis, an 11% decrease from the 186 diagnoses in 2017. The number of males diagnosed with P&S syphilis in Louisiana increased 2%, from 493 diagnoses in 2017 to 503 diagnoses in 2018.
- There is a significant racial disparity in syphilis diagnoses in Louisiana. In 2018, the rate of new P&S syphilis diagnoses among Blacks was 28.5 per 100,000 Blacks, three and a half times higher than among Whites and over five times higher than among Hispanic/Latinx persons.
- In 2018, 64% of all P&S syphilis diagnoses were Black, 33% were White, and less than 2% were Hispanic/Latinx. Only 32% of Louisiana's population is Black.
- Since 2016, there has been a decrease in the number of new diagnoses observed in persons age 15-24. From 2017 to 2018, the number of diagnoses decreased 9% among persons 15-19 years old, and 12% among persons 20-24 years old. Despite these declines, 30% of new P&S syphilis diagnoses were among persons under 25 years of age in 2018.



- The 2018 male P&S syphilis diagnosis rate of 22.1 per 100,000 males was over three times greater than the female rate of 7.0 per 100,000 females.
- From 2017 to 2018, the P&S syphilis diagnosis rate per 100,000 males remained stable, 21.5 and 22.1 respectively. The P&S syphilis rate per 100,000 females decreased from 7.8 to 7.0. The greatest gap in rates between males and females was observed in 2016.

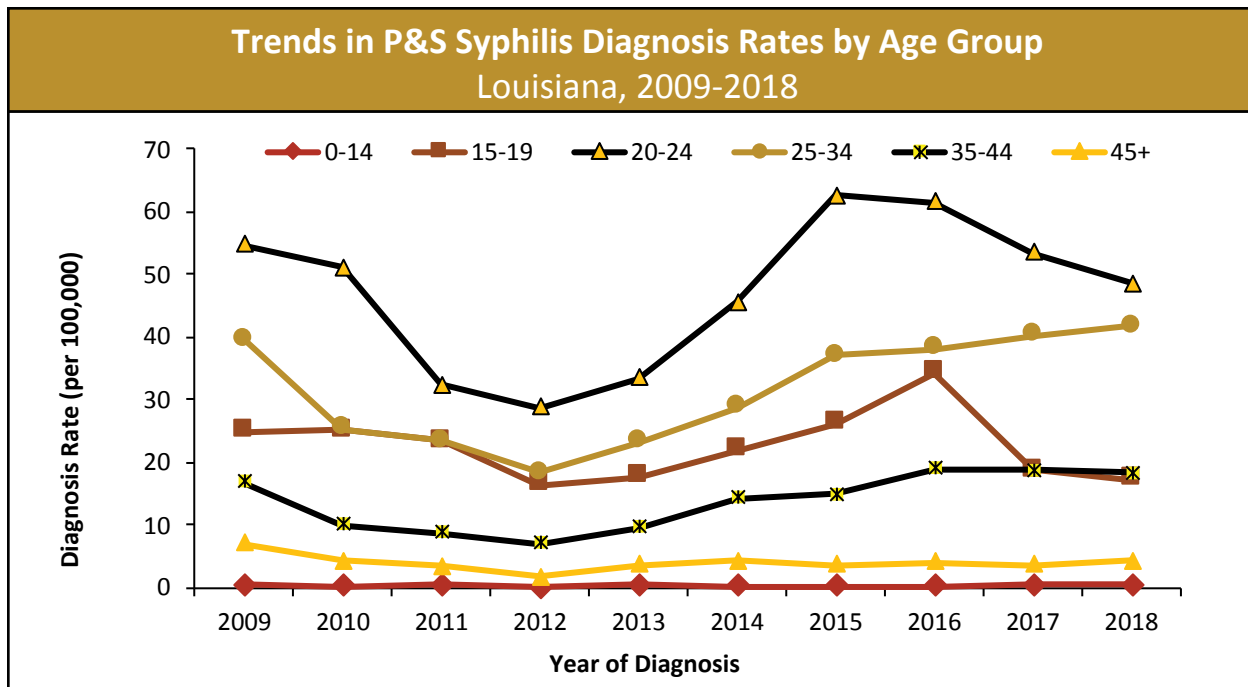


- The P&S syphilis rate among Blacks has varied greatly over the past 10 years, from a high of 42.6 per 100,000 in 2009 to a low of 19.6 per 100,000 in 2012. The rate has steadily increased in Whites from a low of 1.6 per 100,000 in 2012 to a high of 8.1 per 100,000 in 2018.
- The P&S syphilis diagnosis rate for Black persons nearly doubled from 2012 to 2016, rising from 19.6 per 100,000 to 36.7 per 100,000. However, from 2016 to 2018, the diagnosis rate among Blacks decreased by 22% to 28.5 per 100,000.

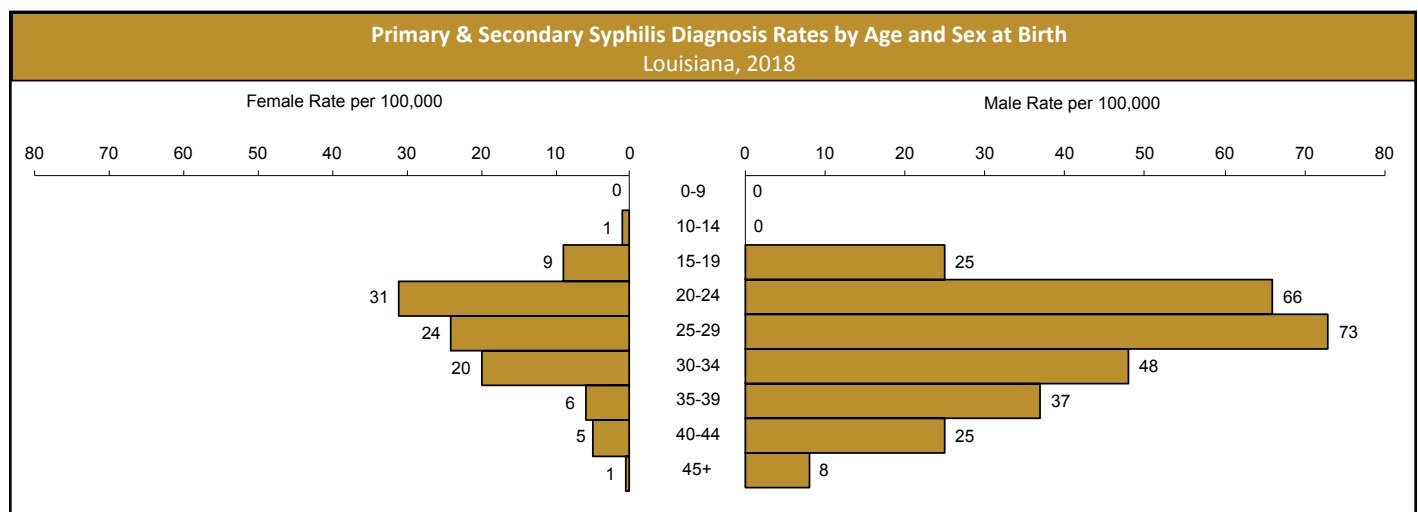
Race/Ethnicity of Persons Diagnosed with P&S Syphilis by Sex at Birth Louisiana, 2018			
	Cases	Percent	Rate*
Total	669	100%	14.4
Female	166	24.8%	7.0
American Indian/Alaskan Native	0	0.0%	0.0
Asian/Pacific Islander	1	0.6%	n/a
Black/African American	115	69.3%	14.5
Hispanic/Latina	0	0.0%	0.0
White	50	30.1%	3.6
Other/Multi-race	0	0.0%	-
Male	503	75.2%	22.1
American Indian/Alaskan Native	3	0.6%	n/a
Asian/Pacific Islander	4	0.8%	n/a
Black/African American	313	62.2%	44.0
Hispanic/Latino	13	2.6%	10.0
White	170	33.8%	12.7
Other/Multi-race	0	0.0%	-

* Rate per 100,000. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, among P&S syphilis diagnoses in females, 69% were Black and 30% were White. This marks a significant increase in case percentage among White females from 13% in the previous year. Of the P&S syphilis diagnoses in males, 62% were Black, 34% were White, and 3% were Hispanic/Latino.
- The diagnosis rate of P&S syphilis in Black males was three times higher than the rate in Black females, and the P&S syphilis rate in White males was three and a half times higher than the rate in White females.

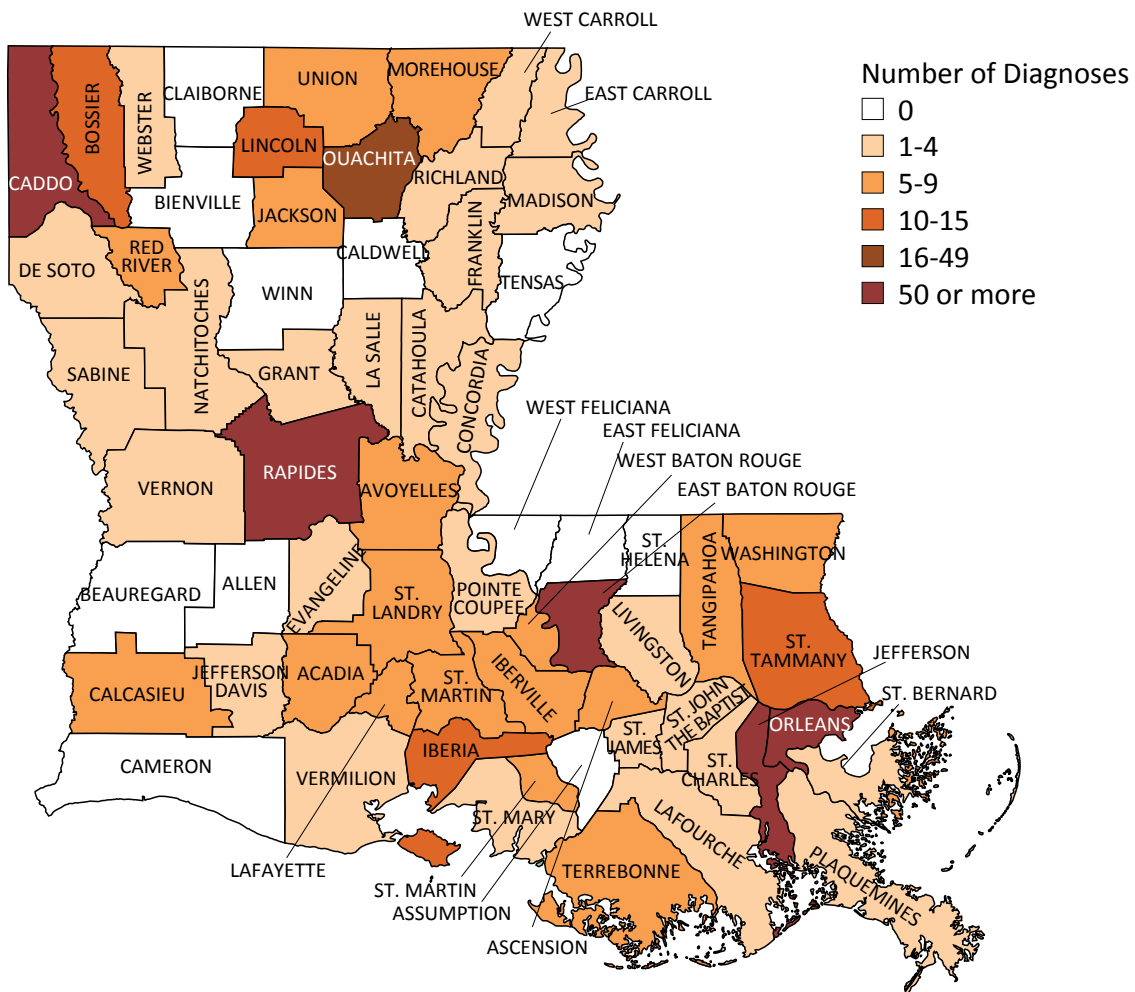


- The highest rate of P&S syphilis diagnoses occurred in persons age 20-24. The rate among 20-24 year olds ranged from a low of 28.7 per 100,000 in 2012 to a high of 62.2 in 2015.
- The second highest P&S syphilis rate typically occurred among persons aged 25-34. Since 2012, the rate among 25-34 year olds more than doubled.
- In 2018, the rate among 35-44 year olds surpassed the rate among 15-19 year olds. Since 2016, the rate among 15-19 year olds has decreased by 50%.

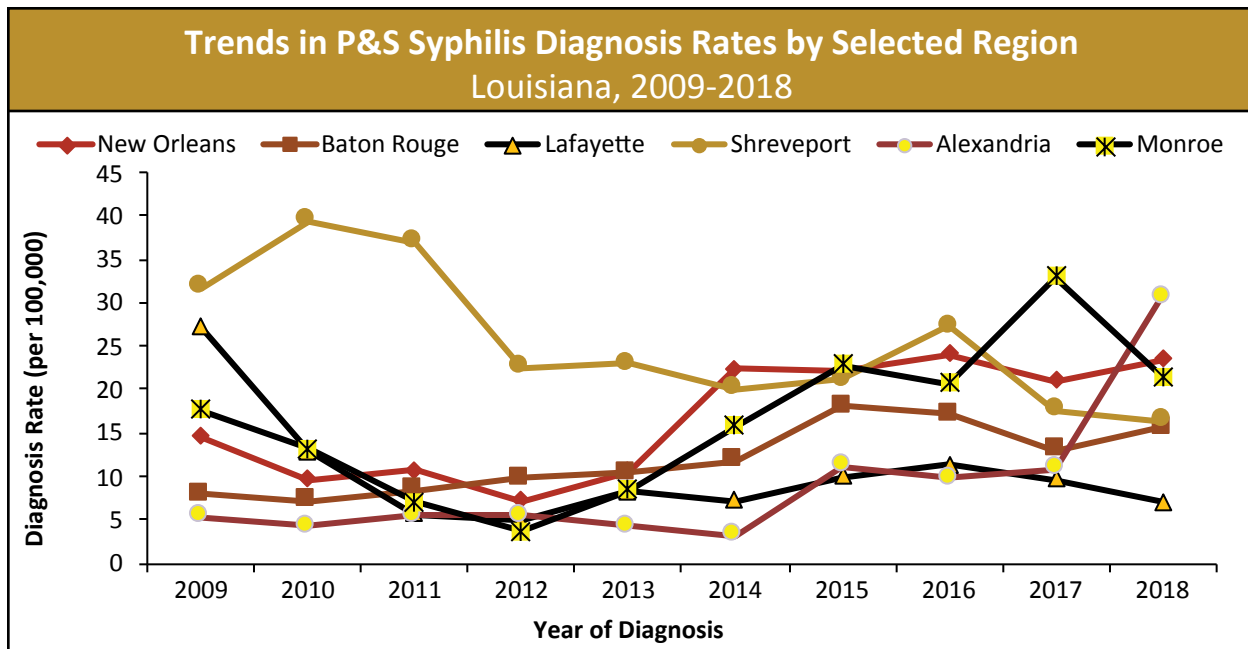


- In 2018, the highest age specific rate was among 25-29 year old males, followed by 20-24 year old males.
- Among females in 2018, the highest age-specific rate was among 20-24 year olds, followed by females age 25-29.

Number of P&S Syphilis Diagnoses by Parish, Louisiana, 2018



- The number of P&S syphilis diagnoses varied by parish in Louisiana. In 2018, there were persons diagnosed with P&S syphilis in 52 of Louisiana's 64 parishes.
- A total of five parishes had P&S syphilis diagnosis counts of 50 or more (Caddo, East Baton Rouge, Orleans, Rapides, and Jefferson). These five parishes accounted for 64% of all P&S syphilis diagnoses in 2018.
- Additional breakdowns by race/ethnicity and parish can be found in the Appendix.

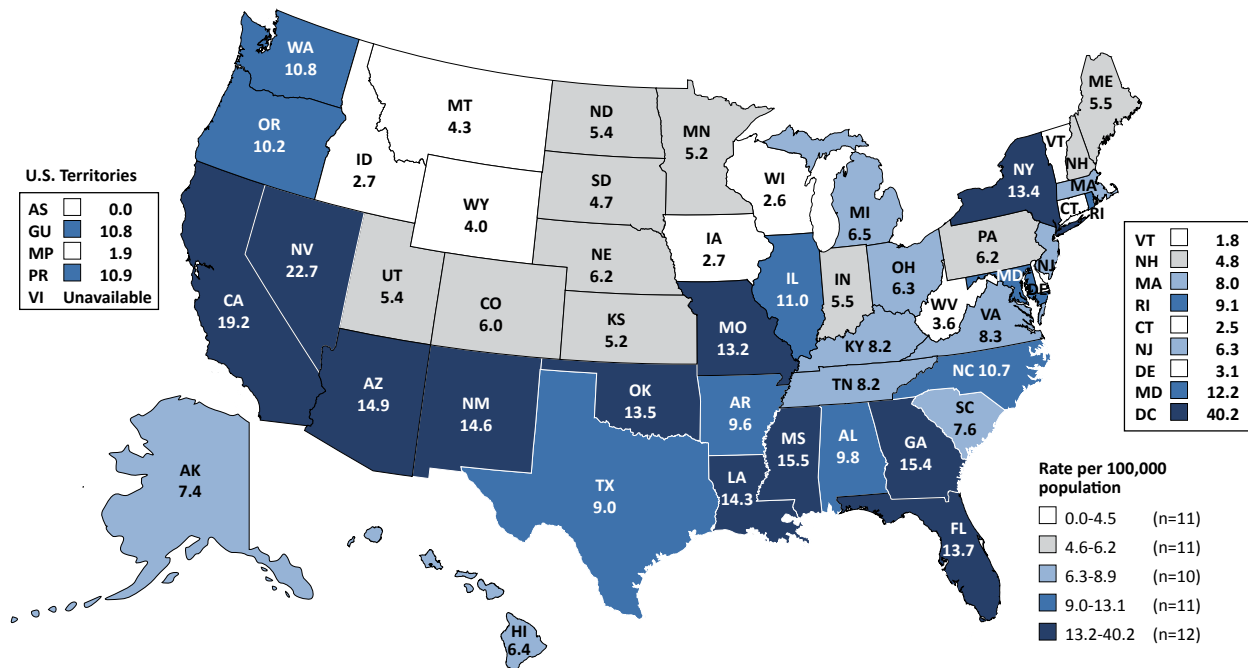


- From 2017 to 2018 the Alexandria region experienced a 183% rate increase from 10.8 per 100,000 to 30.6 per 100,000. The drastic rate increase resulted in the Alexandria region having the highest P&S syphilis rate in 2018.
- In the 9 years prior, the Alexandria region has maintained one of the lowest P&S rates in Louisiana with an average rate of 6.6 per 100,000 between 2009 and 2017.
- In 2018, the New Orleans region ranked 2nd among P&S syphilis diagnosis rates with a rate of 23.5 per 100,000 persons. The Monroe region ranked 3rd with a P&S syphilis rate of 21.5 per 100,000, a 35% reduction from 2017.
- The Shreveport region (16.4 per 100,000), Baton Rouge region (15.6 per 100,000), and Lafayette region (6.9 per 100,000) ranked 4th, 5th, and 6th respectively.

New P&S Syphilis Diagnoses by Region and Year Louisiana, 2014-2018										
	2014		2015		2016		2017		2018	
Louisiana	575	%	696	%	750	%	679	%	669	%
1-New Orleans	199	35%	199	29%	216	29%	189	28%	210	31%
2-Baton Rouge	80	14%	123	18%	117	16%	90	13%	106	16%
3-Houma	54	9%	43	6%	56	7%	41	6%	19	3%
4-Lafayette	43	7%	60	9%	69	9%	59	9%	42	6%
5-Lake Charles	6	1%	14	2%	21	3%	26	4%	8	1%
6-Alexandria	10	2%	34	5%	30	4%	33	5%	92	14%
7-Shreveport	110	19%	115	17%	148	20%	95	14%	88	13%
8-Monroe	56	10%	81	12%	73	10%	116	17%	75	11%
9-Hammond/Slidell	17	3%	27	4%	20	3%	30	4%	29	4%

- From 2017 to 2018, the number of P&S syphilis diagnoses almost tripled in the Alexandria region.
- In 2018, the number of P&S syphilis diagnoses increased 11% in the New Orleans region accounting for 31% of all diagnoses in the state. New Orleans consistently accounts for almost 30% of all diagnoses in the state.
- From 2017 to 2018, the number of P&S syphilis diagnoses in the Houma region decreased by 54%, the largest decrease in the state.

P&S Syphilis Diagnosis Rates in the United States (2018)^{xxiii}



The above map represents state rates that were calculated using 2017 census data and was presented in the *2018 STD Surveillance Report*. For all other instances of the Louisiana rate in this report, the rate has been recalculated using the 2018 census data for the denominator.

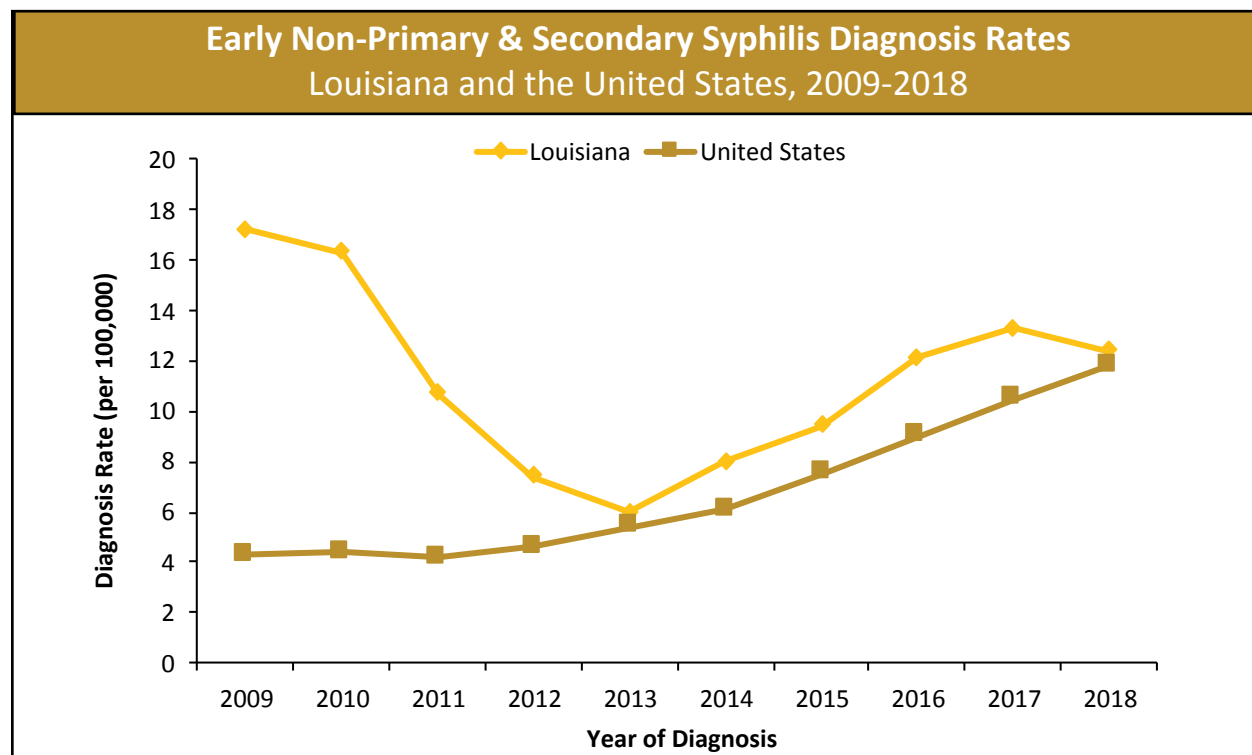
- According to the most recent CDC report, there were 35,063 new P&S syphilis diagnoses reported in the United States in 2018, for a national P&S syphilis diagnosis rate of 10.8 diagnoses per 100,000 population. In 2017, the national P&S syphilis diagnosis rate was 9.5 per 100,000 population.^{xxiii}
- The national P&S syphilis diagnosis rate increased by 14% from 2017 to 2018 and has increased 71% from 2014 to 2018, when, the national P&S syphilis diagnosis rate was 6.3 per 100,000 population.^{xxiii}
- Nationally, the female diagnosis rate increased more than the male rate, rising 30% from 2017 to 2018 in females, and 11% in males. However, the rate of P&S syphilis in males still far exceeds that seen in females, accounting for nearly 86% of all P&S syphilis diagnoses.^{xxiii}
- In 2018, Louisiana ranked 7th in the nation for P&S syphilis diagnosis rates (14.4 per 100,000). Nevada (22.7 per 100,000), California (19.2 per 100,000), Mississippi (15.5 per 100,000), Georgia (15.4 per 100,000), Arizona (14.9 per 100,000), and New Mexico (14.6 per 100,000) ranked 1st through 6th respectively in 2018.^{xxiii} The District of Columbia had the highest rate in the nation but is not included in national state rankings.
- Louisiana's 2018 P&S syphilis rate of 14.4 per 100,000 population was 1.3 times greater than the national rate of 10.8 per 100,000 population.^{xxiii}

Early non-Primary non-Secondary Syphilis

Early non-P&S syphilis is defined as an infection which has occurred within 12 months of diagnosis without any signs or symptoms of P&S syphilis. If not detected and treated early, syphilis may lead to long-term health problems including blindness, dementia, paralysis, and damage to internal organs. Also, in pregnant women, monitoring of all stages of syphilis is important because undetected infections can lead to stillbirth or congenital defects.^{xxii} In Louisiana, early non-P&S syphilis cases receive the same partner services and follow-up by trained disease intervention specialists as P&S syphilis. This is because early non-P&S syphilis can occur between the primary and secondary stages, or in some cases, if a chancre is not visible upon cursory examination, a case may be misclassified.

10-Year Trends in Early non-P&S Syphilis Diagnoses

Between 2008 and 2013, Louisiana's early non-P&S syphilis rate decreased 70%. This is likely due to a change in the case definition of early non-P&S syphilis Louisiana fully implemented in 2011. However, Louisiana's early non-P&S syphilis rate is still more than double its low of 6.0 per 100,000 in 2013.



- In 2018, the early non-P&S syphilis diagnosis rate in Louisiana was 12.4 per 100,000 population, which was 5% greater than the national rate of 11.8 per 100,000 population.
- Nationally, the early non-P&S rate has steadily risen since 2011, increasing almost threefold between 2011 and 2018.
- Louisiana experienced a steady increase in early non-P&S syphilis rates between 2013 and 2017, increasing 123% over the four-year period. From 2017 to 2018, the early non-P&S syphilis rate decreased by 7%.

Early non-P&S Diagnoses by Sex at Birth, Race/Ethnicity, and Age at Diagnosis

Characteristics of Persons Diagnosed with Early non-P&S Syphilis Louisiana, 2018			
	Cases	Percent	Rate*
Total	576	100%	12.4
Sex at Birth			
Female	147	25.5%	6.2
Male	429	74.5%	18.9
Race/Ethnicity			
Black/African American	385	66.8%	25.6
Hispanic/Latinx	27	4.7%	11.1
White	159	27.6%	5.8
Other/Multi-race	5	0.9%	-
Age Group	Age at Diagnosis		
0-9	0	0.0%	0.0
10-14	1	0.2%	n/a
15-19	40	6.9%	13.5
20-24	106	18.4%	34.3
25-29	147	25.5%	42.8
30-34	95	16.5%	29.4
35-39	69	12.0%	22.0
40-44	38	6.6%	14.1
45+	80	13.9%	4.2

* Rate per 100,000. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, 429 males were diagnosed with early non-P&S syphilis, a 7% decrease from 459 males diagnosed in 2017. There were 147 diagnoses of early non-P&S syphilis in females in 2018, a 10% decrease from 164 females diagnosed in 2017.
- The rate of early non-P&S syphilis in males was three times the rate in females in 2018.
- In 2018, 67% of all early non-P&S syphilis diagnoses were Black, 28% were White, and 5% were Hispanic/Latinx. Only 32% of Louisiana's population is Black.
- There is a significant racial disparity in early non-P&S syphilis diagnoses in Louisiana. In 2018, the early non-P&S syphilis diagnoses rate among Black persons was 25.6 per 100,000, over four times higher than among Whites and more than double the rate among Hispanic/Latinx persons.
- In 2018, nearly 44% of all early non-P&S syphilis diagnoses were in persons age 20-29. An additional 28.5% of diagnoses were among persons age 30-39.

Race/Ethnicity of Persons Diagnosed with Early non-P&S Syphilis by Sex at Birth Louisiana, 2018			
	Cases	Percent	Rate*
Total	576	100%	12.4
Female	147	25.5%	6.2
American Indian/Alaskan Native	1	0.7%	n/a
Asian/Pacific Islander	1	0.7%	n/a
Black/African American	107	72.8%	13.5
Hispanic/Latina	3	2.0%	n/a
White	35	23.8%	2.5
Other/Multi-race	0	0.0%	-
Male	429	74.5%	18.9
American Indian/Alaskan Native	1	0.2%	n/a
Asian/Pacific Islander	2	0.5%	n/a
Black/African American	278	64.8%	39.0
Hispanic/Latino	24	5.6%	18.5
White	124	28.9%	9.2
Other/Multi-race	0	0.0%	-

* Rate per 100,000. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, among early non-P&S syphilis diagnosis in females, 73% were Black, 24% were White, and 2% were Hispanic/Latina. The diagnosis rate in Black females was over five times that in White females.
- Among males, 65% of early non-P&S syphilis diagnoses were Black, 29% were White, and 6% were Hispanic/Latino. The diagnosis rate in Black males was over four times that in White males and more than two times that in Hispanic/Latino males.

STDs and Hepatitis C with HIV Co-Infection

HIV shares a number of risk factors with other sexually transmitted diseases (STDs) and the hepatitis C virus (HCV). As a result, persons diagnosed with an STD or HCV are more likely than others to be co-infected with HIV. Co-infection with HIV may introduce additional complications for treatment, increased risk of disease transmission, and accelerated disease progression. The STD/HIV/Hepatitis Program routinely conducts matches between Louisiana's HIV, STD, and viral hepatitis registries to monitor the epidemiology of these co-infections in order to evaluate disease transmission risk and determine the need for integrated medical and public health services.

Number and Percent of STD/HCV Diagnoses with HIV Co-infection Louisiana, 2014-2018					
Co-infections	Number of Co-infections (% of STD or HCV Diagnoses)				
	2014	2015	2016	2017	2018
Chlamydia/HIV	387 (1%)	439 (1%)	556 (2%)	837 (2%)	761 (2%)
Gonorrhea/HIV	373 (4%)	425 (4%)	683 (6%)	729 (7%)	826 (7%)
P&S Syphilis/HIV	216 (38%)	209 (30%)	221 (30%)	203 (30%)	190 (28%)
HCV/HIV*	-	-	165 (4%)	205 (3%)	275 (3%)

HCV = Hepatitis C Virus; P&S Syphilis = Primary and secondary syphilis

*HCV/HIV co-infection data before 2016 is not provided due to a change in the reporting definition for HCV that went into effect in 2016.

In 2018, HIV-co-infection was identified in 2% of new chlamydia diagnoses (n=761), 7% of new gonorrhea diagnoses (n=826), 28% of primary and secondary (P&S) syphilis diagnoses (n=190), and 3% of hepatitis C virus diagnoses (n=275).

STD and HIV Co-infection

Common risk factors for transmission of HIV and STDs include unprotected anal/vaginal sex with anonymous or multiple partners and sexual activity under the influence of alcohol and/or other drugs. HIV transmission is also more likely to occur during unprotected anal/vaginal sex if one or more sexual partners has sores or lesions present due to an active STD infection.^{xxv} Gay, bisexual, men and other men who have sex with men (GBM) are at an elevated risk for both HIV and STD transmission due to a variety of factors: the practice of anal sex among some GBM, which carries a higher risk for STD and HIV transmission compared to other types of sexual activity; a noted decrease in safe sex practices over time; the practice of seeking out sexual partners of the same HIV status thereby creating smaller sexual networks (serosorting); and a complex combination of social barriers to routine HIV/STD screening and medical treatment (e.g., multiple stigmas, socioeconomic status, and mistreatment in the healthcare system).

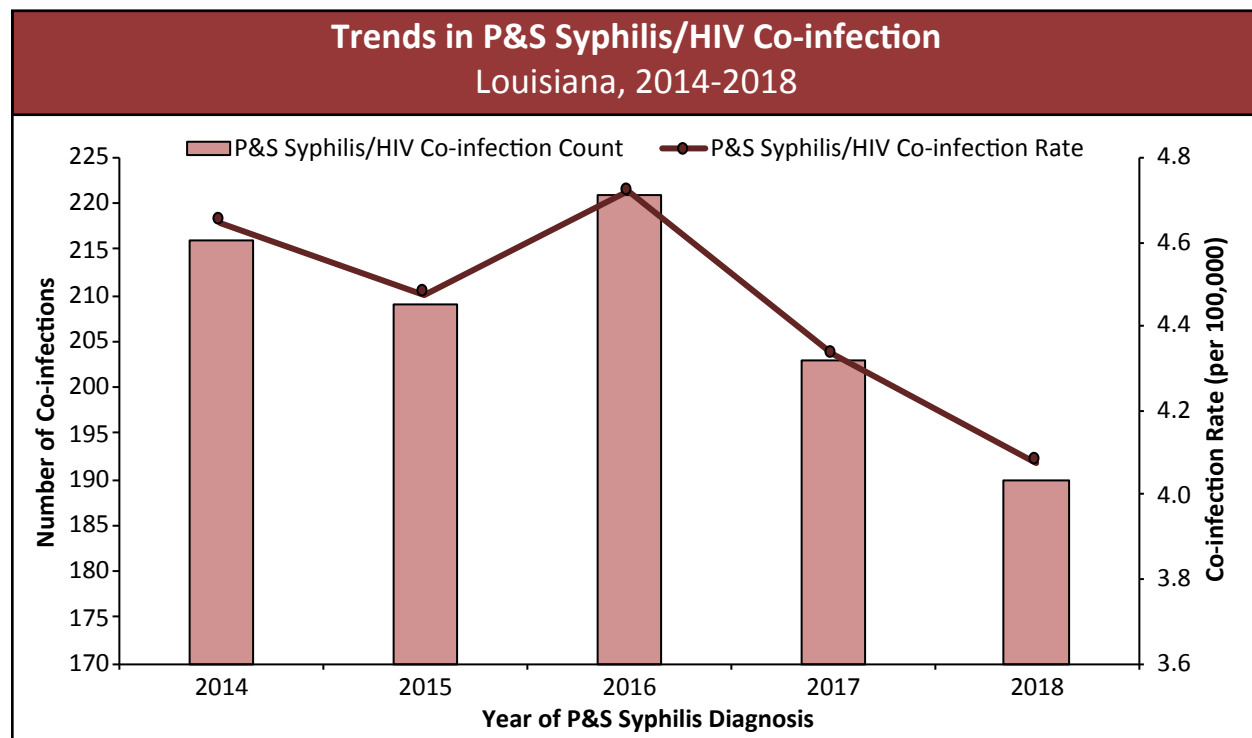
Blacks are also at an elevated risk for acquiring HIV and STDs compared to other racial groups in Louisiana due to a similar combination of social barriers to routine HIV/STD screening and medical treatment that also includes disparate incarceration rates, and being limited to smaller, racially-segregated sexual networks more than other racial groups (see introduction section *Understanding HIV disparities*). For Black GBM, the risk of HIV and STD transmission is compounded due to overlapping risk factors experienced by the GBM population and Black population; consequently, Black GBM currently have some of the highest rates of HIV, STDs, and HIV/STD co-infection.^{xxvi}

Syphilis and HIV Co-infection

In Louisiana, the primary and secondary syphilis (P&S syphilis) rate increased overall by 16% between 2014 and 2018, from 12.4 per 100,000 in 2014 to 14.4 per 100,000 in 2018 (see *Chapter 4: Profile of STDs in Louisiana*). During this time, males overall had a diagnosis rate that was around three times the rate in females. In 2018, gay, bisexual, and other men who have sex with men (GBM) accounted for 50% of diagnoses. According to national data, P&S syphilis rates have rapidly increased around the US, primarily due to increased transmission between GBM. This recent resurgence in P&S syphilis may be linked to an increase in high-risk activity among GBM, such as decreases in condom usage, the use of the internet and cellular phone apps to find sex partners, serosorting and an increase in alcohol and recreational drug use.^{xxvii,xxviii}

Persons diagnosed with P&S syphilis are at the highest risk for being co-infected with HIV, compared to other STDs; however, this risk decreased slightly between 2014 and 2018. In 2014, 38% of persons diagnosed with P&S syphilis in Louisiana were also co-infected with HIV, and in 2018, 28% of persons diagnosed with P&S syphilis were also co-infected with HIV. In Louisiana, GBM accounted for 89% of P&S syphilis/HIV co-infections in 2018.

Persons with syphilis/HIV co-infection are at an increased risk for developing syphilis-related complications (e.g., neurosyphilis) and may be at an increased risk for transmitting HIV. As GBM living with HIV are at high risk for syphilis acquisition, CDC recommends that all GBM living with HIV be tested for syphilis upon entering HIV-related medical care and then continually assessed for sexual risk behaviors and tested for syphilis accordingly.^{xxix}



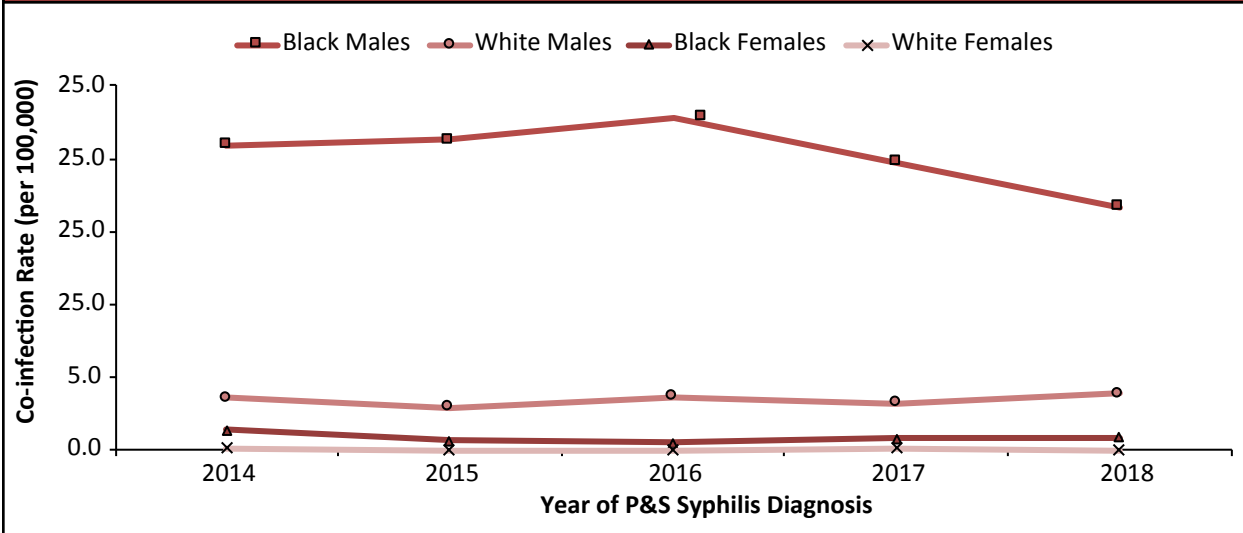
- From 2014 to 2018, the P&S syphilis/HIV co-infection rate for the state decreased overall by 11%, from 4.6 cases per 100,000 in 2014 to 4.1 per 100,000 in 2018.
- From 2016 to 2018, the number of persons identified with P&S syphilis/HIV co-infection decreased by 14% from a 5-year peak of 221 persons in 2016 to 190 persons in 2018. During the same period, the rate also decreased by 14%.

Number and Rate of P&S Syphilis/HIV Co-infection by Region Louisiana, 2014-2018					
	Number of Co-infections (Co-infection Rate per 100,000)*				
	2014	2015	2016	2017	2018
Louisiana	216 (4.6)	209 (4.5)	221 (4.7)	203 (4.3)	190 (4.1)
Region					
1-New Orleans	107 (12.1)	98 (11.0)	102 (11.4)	85 (9.4)	79 (8.8)
2-Baton Rouge	41 (6.0)	47 (6.9)	40 (5.8)	37 (5.4)	29 (4.3)
3-Houma	12 (3.0)	3 (n/a)	12 (3.0)	9 (2.2)	5 (1.3)
4-Lafayette	11 (1.8)	12 (2.0)	14 (2.3)	11 (1.8)	13 (2.1)
5-Lake Charles	4 (n/a)	4 (n/a)	8 (2.7)	7 (2.3)	2 (n/a)
6-Alexandria	2 (n/a)	6 (2.0)	8 (2.6)	5 (1.6)	18 (6.0)
7-Shreveport	24 (4.4)	23 (4.2)	24 (4.4)	27 (5.0)	21 (3.9)
8-Monroe	7 (2.0)	12 (3.4)	11 (3.1)	17 (4.8)	18 (5.2)
9-Hammond/Slidell	8 (1.4)	4 (n/a)	2 (n/a)	5 (0.9)	5 (0.8)

*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, the four regions with the highest P&S syphilis/HIV co-infection rates included New Orleans (8.8 per 100,000), Alexandria (6.0 per 100,000), Monroe (5.2 per 100,000), and Baton Rouge (4.3 per 100,000).
- From 2014 to 2018, the number of P&S syphilis/HIV co-infections increased in Lafayette, Alexandria, and Monroe. In 2018, Alexandria experienced a syphilis outbreak as further detailed in Chapter 4.
- Co-infections peaked in New Orleans in 2014, but have since declined 26%.

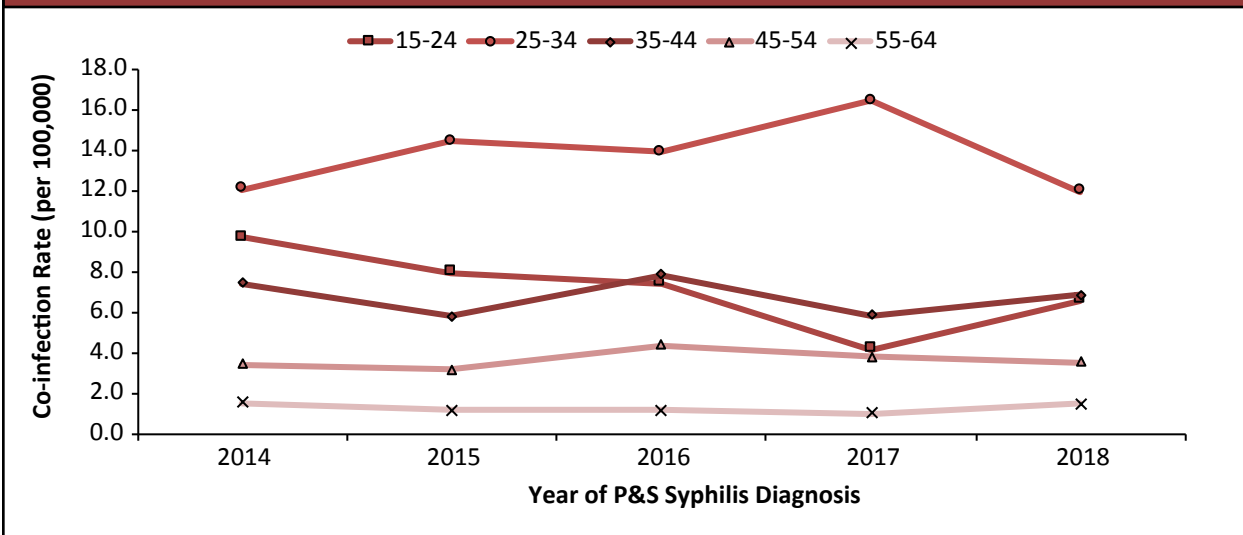
P&S Syphilis/HIV Co-infection Rate by Sex at Birth and Race* Louisiana, 2014-2018



*Latino males and Latina females are not depicted in the graph as both groups accounted for less than 5 cases each year.

- From 2016 to 2018, the P&S syphilis/HIV co-infection rate for Black males decreased by 31% while the rate for White males increased by 6%. In 2018, Black males had a rate that was 4.3 times that of White males.

P&S Syphilis/HIV Co-infection Rate by Age Louisiana, 2014-2018



- The P&S syphilis/HIV co-infection rate for persons age 15-24 decreased by 57% between 2014 and 2017, and then increased by 57% between 2017 and 2018. The rate for persons age 25-34 increased by 37% between 2014 and 2017, and then decreased by 27% between 2017 and 2018.

Characteristics of Persons with P&S Syphilis/HIV Co-infection Louisiana, 2018			
	Number of Co-infections	Percent	Co-infection Rate (per 100,000)*
Total	190	100%	4.1
Sex at Birth			
Female	7	4%	0.3
Male	183	96%	8.0
Race/Ethnicity			
Black/African American	126	66%	8.4
Hispanic/Latinx	8	4%	3.3
White	52	27%	1.9
Other/Multi-race	4	2%	n/a
Age Group			
	Age at P&S Syphilis Diagnosis		
Under 15	0	0%	0.0
15-24	40	21%	6.6
25-34	80	42%	12.0
35-44	40	21%	6.9
45-54	20	11%	3.5
55-64	9	5%	1.5
65+	1	1%	n/a
HIV Transmission Risk			
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	170	89%	-
Persons Who Inject Drugs (PWID)	0	0%	-
GBM/PWID	5	3%	-
High Risk Heterosexual (HRH)	15	8%	-
Other	0	0%	-
Timing of P&S Syphilis Diagnosis			
Concurrent P&S Syphilis/HIV Diagnoses**	27	14%	-
1 Month - 2 Years After HIV Diagnosis	39	21%	-
3-10 Years After HIV Diagnosis	76	40%	-
11+ Years After HIV Diagnosis	41	22%	-
Less than 1 year before HIV Diagnosis	7	4%	-

*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

**Concurrent P&S syphilis/HIV diagnoses is defined as having a confirmed HIV diagnosis within 30 days before or after having a confirmed P&S syphilis diagnosis.

- In 2018, males accounted for 96% of P&S syphilis/HIV co-infections.
- Blacks accounted for 66% of P&S syphilis/HIV co-infections in 2018 even though Blacks make up only 32% of Louisiana's population, representing a large racial disparity.
- In 2018, gay, bisexual, and other men who have sex with men (GBM) accounted for 89% of P&S syphilis/HIV co-infections.
- In 2018, 65% of P&S syphilis/HIV co-infections occurred among persons that had been living with HIV for three years or longer.

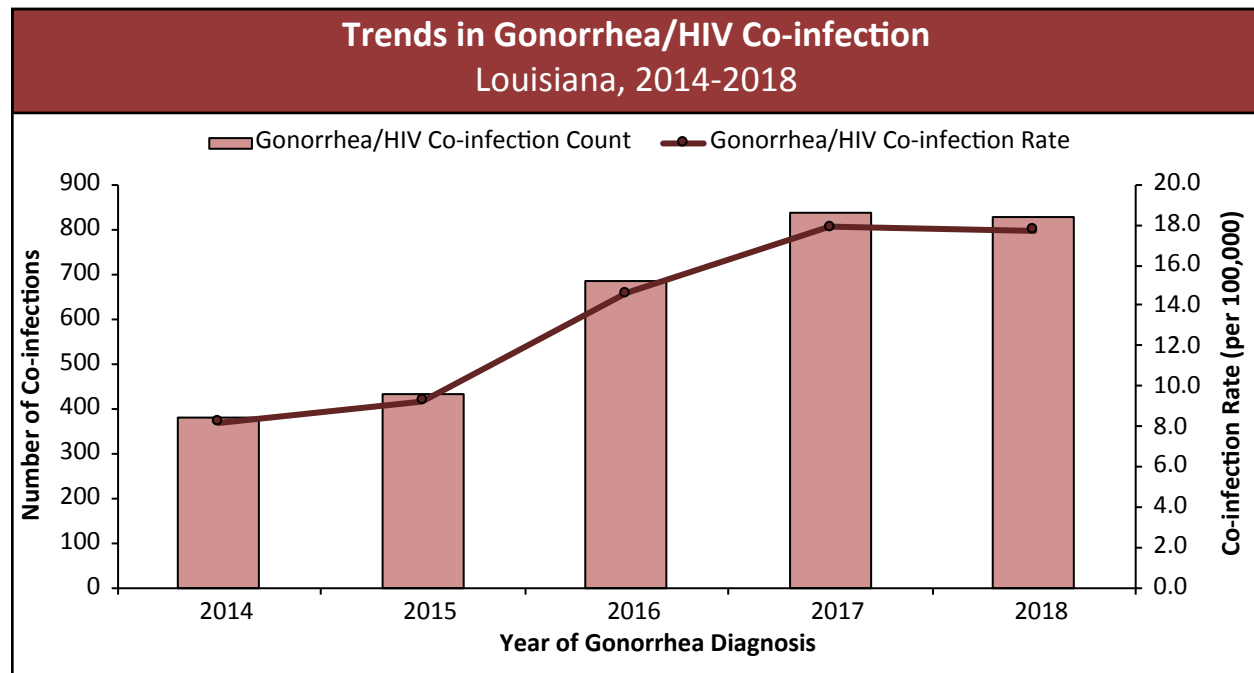
Gonorrhea and HIV Co-infection

Gonorrhea rates in Louisiana have increased by 34% between 2014 and 2018 (see *Chapter 4: Profile of STDs in Louisiana*). While both males and females have experienced increases in gonorrhea rates during this period, men have seen the greatest increase. In 2016, the gonorrhea rate among males surpassed that of females for the first time in Louisiana's history. This disparity widened between 2016 and 2018.

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From 2014 to 2018, the gonorrhea/HIV co-infection rate more than doubled from 8.2 per 100,000 in 2014 to 17.7 per 100,000 in 2018. The percentage of gonorrhea diagnoses who were co-infected with HIV grew from 4.3% in 2014 to 7.4% in 2018. In 2018, GBM accounted for 80% of gonorrhea/HIV co-infections.

Taken together, these trends suggests that GBM are experiencing a growing gonorrhea disparity. This disparity may explain the recent increases in gonorrhea rate for men. Increased gonorrhea transmission among GBM has been associated with the risk factors described in the above sections, as well as lack of routine genital and extragenital testing, increases in condomless sex, having multiple anonymous partners, and substance abuse. Recent increases in the utilization of gonorrhea testing of extragenital infection sites (*e.g.*, throat and rectum) among GBM in Louisiana may have also contributed to the observed increase in gonorrhea diagnosis rates among GBM.^{xxix}

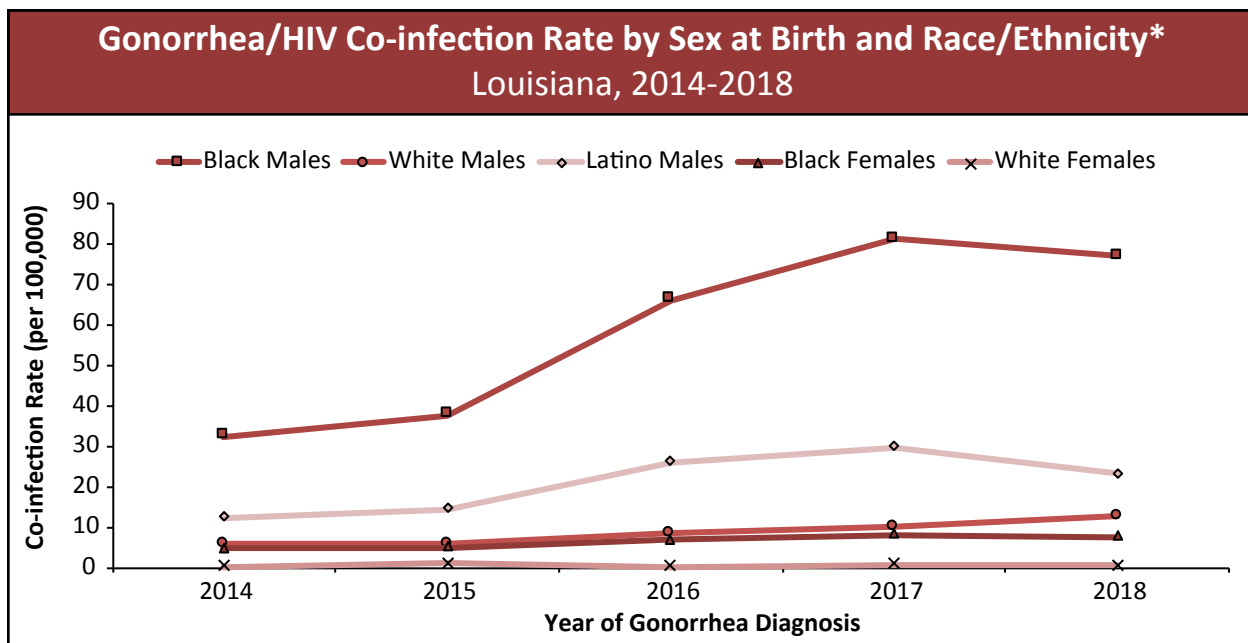


- The number of persons with a gonorrhea/HIV co-infection peaked in 2017 at 837 persons and then decreased in 2018 to 826 persons. Between 2017 and 2018, the rate decreased from 17.9 cases per 100,000 in 2017 to 17.7 cases per 100,000 in 2018.

Number and Rate of Gonorrhea/HIV Co-infection by Region Louisiana, 2014-2018					
	Number of Co-infections (Co-infection Rate per 100,000)*				
	2014	2015	2016	2017	2018
Louisiana	373 (8.0)	425 (9.1)	683 (14.6)	837 (17.9)	826 (17.7)
Region					
1-New Orleans	185 (20.8)	206 (23.0)	375 (41.8)	479 (53.1)	440 (49.2)
2-Baton Rouge	87 (12.8)	84 (12.3)	109 (15.9)	118 (17.2)	129 (18.9)
3-Houma	11 (2.7)	17 (4.2)	28 (6.9)	33 (8.2)	33 (8.3)
4-Lafayette	19 (3.2)	35 (5.8)	47 (7.7)	57 (9.4)	67 (11.1)
5-Lake Charles	6 (2.0)	18 (6.0)	12 (4.0)	9 (3.0)	19 (6.2)
6-Alexandria	5 (1.6)	9 (2.9)	13 (4.3)	10 (3.3)	17 (5.7)
7-Shreveport	34 (6.2)	22 (4.0)	56 (10.3)	64 (11.8)	58 (10.8)
8-Monroe	14 (3.9)	15 (4.2)	23 (6.5)	40 (11.4)	35 (10.0)
9-Hammond/Slidell	12 (2.1)	19 (3.3)	20 (3.4)	27 (4.6)	28 (4.8)

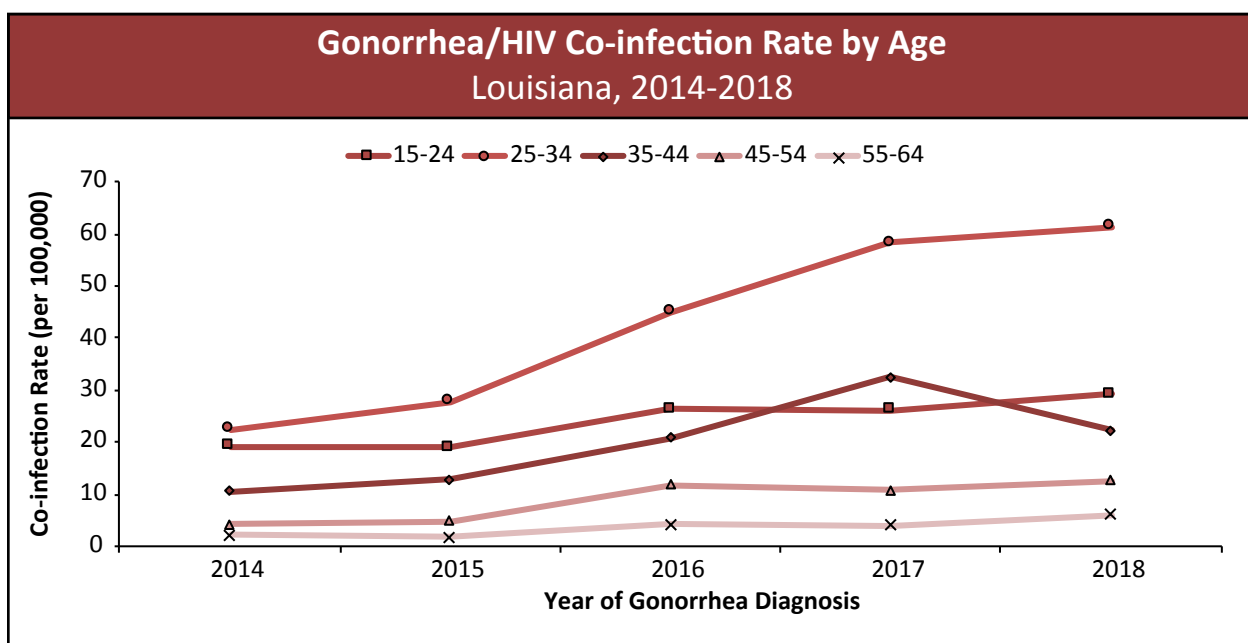
*Rates derived from numerators less than 20 may be unreliable.

- In 2018, the New Orleans region had the highest gonorrhea/HIV co-infection rate at 49.2 per 100,000. This rate is 2.8 times greater than the state average, 2.6 times the second highest rate of 18.9 per 100,000 for the Baton Rouge region, and more than four times the third highest rate of 11.1 per 100,000 for the Lafayette region.
- From 2014 to 2018, the gonorrhea/HIV co-infection rate increased in all regions of the state. During this period, the rate tripled in the Lafayette, Alexandria, Lake Charles, and Houma regions; more than doubled in the Monroe, New Orleans, and Hammond/Slidell regions; and increased by 74% and 48% in Shreveport and Baton Rouge, respectively.
- Between 2017 and 2018, the gonorrhea/HIV co-infection rate in Lake Charles more than doubled (110% increase) and the rate in Alexandria almost doubled (74% increase). During the same period, Monroe, Shreveport, and New Orleans experienced slight decreases in gonorrhea/HIV co-infection rate.



*Latina females are not depicted in the graph as this group accounted for less than 5 cases each year.

- Between 2014 and 2018, Black men saw the largest increase in gonorrhea/HIV co-infection rate (137% increase), followed by White males and Black females (116-118%) and Latino males (88% increase).
- From 2017-2018, White males experienced a 25% increase in gonorrhea/HIV co-infection rate while White females and Latino males experienced a 22% decrease, Black females experienced an 8% decrease, and Black males experienced a 5% decrease.
- In 2018, the gonorrhea/HIV co-infection rate for Black males was 6.1 times the rate for White males. During the same year, the rate for Latino males was 2 times the rate for White males.



- Between 2014 and 2018, the gonorrhea/HIV co-infection rate almost tripled for persons age 45-54, 55-64, and 25-34. During the same period, the rate doubled for persons age 35-44 and increased by 53% for persons age 15-24.

Characteristics of Persons with Gonorrhea/HIV Co-infection Louisiana, 2018			
	Number of Co-infections	Percent	Co-infection Rate (per 100,000)*
Total	826	100%	17.7
Sex at Birth			
Female	68	8%	2.9
Male	758	92%	33.3
Race/Ethnicity			
Black/African American	607	73%	40.4
Hispanic/Latinx	30	4%	12.3
White	175	21%	6.4
Other/Multi-race	14	2%	7.6
Age Group	Age at Gonorrhea Diagnosis		
Under 15	0	0%	0.0
15-24	177	21%	29.2
25-34	410	50%	61.5
35-44	130	16%	22.3
45-54	71	9%	12.6
55-64	36	4%	5.9
65+	2	0%	n/a
HIV Transmission Risk			
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	659	80%	-
Persons Who Inject Drugs (PWID)	21	3%	-
GBM/PWID	39	5%	-
High Risk Heterosexual (HRH)	103	12%	-
Other	4	0%	-
Timing of Gonorrhea Infection			
Concurrent HIV/Gonorrhea Diagnoses**	75	9%	-
1 Month - 2 Years After HIV Diagnosis	241	29%	-
3-10 Years After HIV Diagnosis	349	42%	-
11+ Years After HIV Diagnosis	146	18%	-
Less than 1 year before HIV Diagnosis	15	2%	-

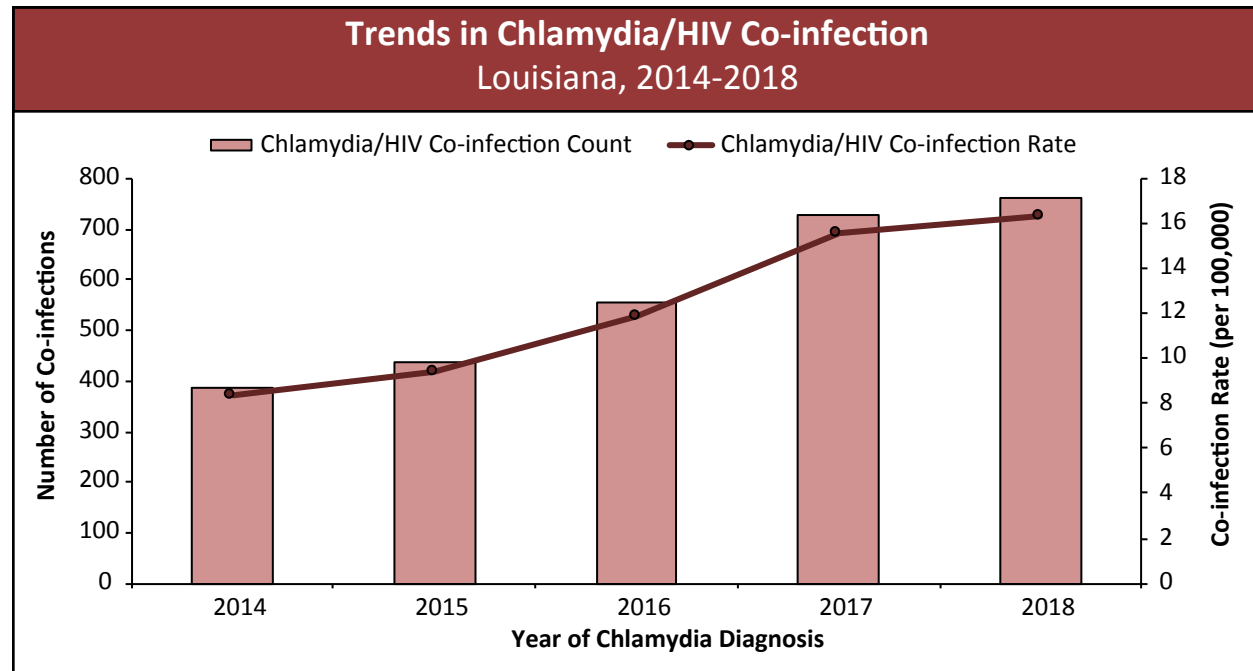
*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

**Concurrent gonorrhea/HIV diagnoses is defined as having a confirmed HIV diagnosis within 30 days before or after having a confirmed gonorrhea diagnosis.

- In 2018, males accounted for 92% of gonorrhea/HIV co-infections.
- Blacks accounted for 73% of gonorrhea/HIV co-infections in 2018 even though Blacks make up only 32% of Louisiana's population, representing a large racial disparity.
- In 2018, persons age 35 years old and older accounted for only 14% of all gonorrhea diagnoses, but accounted for 29% of gonorrhea/HIV co-infections.
- Gay, bisexual, and other men who have sex with men (GBM) accounted for 80% of gonorrhea/HIV co-infections in 2018.
- In 2018, 60% of gonorrhea/HIV co-infections occurred among persons that had been living with HIV for 3 years or longer.

Chlamydia and HIV Co-infection

Chlamydia is the most commonly diagnosed STD in the US and Louisiana but has less risk factors in common with HIV compared to syphilis and gonorrhea. Unlike HIV, chlamydia diagnoses rates in Louisiana have been consistently higher among women compared to men and persons under the age of 25 consistently account for the majority of diagnoses (see *Chapter 4: Profile of STDs in Louisiana*). Between 2014 and 2018, the chlamydia rate in Louisiana increased from 621.5 per 100,000 to 778.8 per 100,000 (25% increase). During the same period, the chlamydia/HIV co-infection rate in Louisiana doubled from 8.3 per 100,000 in 2014 to 16.3 per 100,000 in 2018. In 2018, around 2% of persons with a new chlamydia diagnosis were co-infected with HIV.

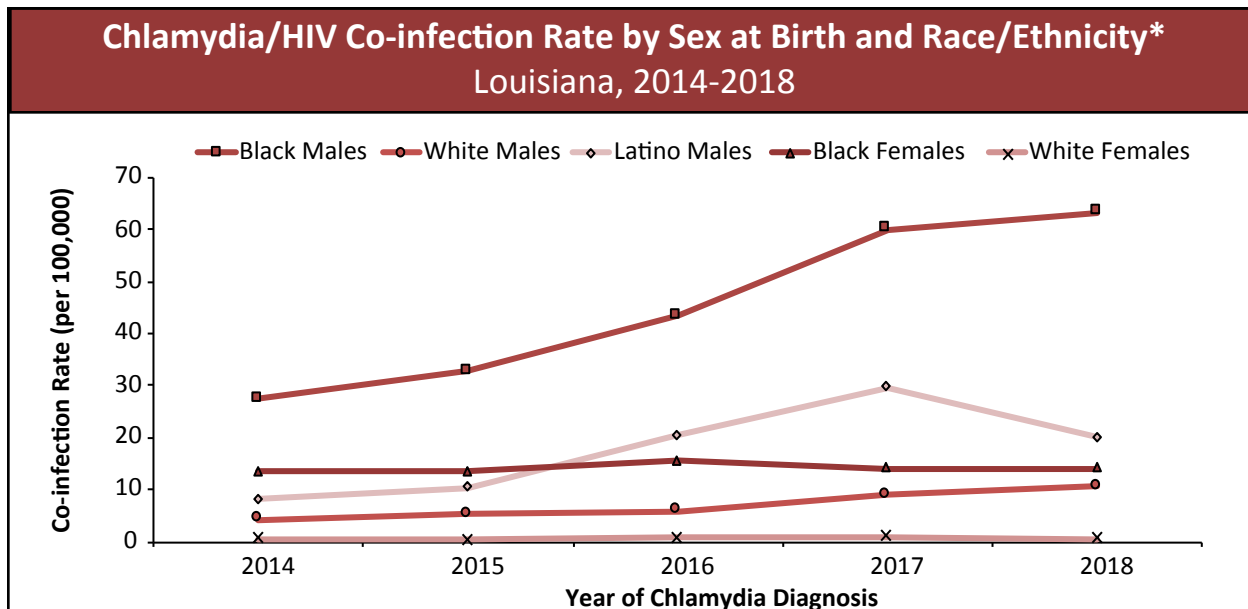


- The rate of persons identified with chlamydia/HIV co-infection has increased each year from 2014 to 2018; however, the rate of increase slowed considerably between 2017 and 2018. From 2017-2018, the rate only increased by 5%. Prior to that, the rate increased by 26% from 2015-2016 and 31% from 2016-2017.

Number and Rate of Chlamydia/HIV Co-infection by Region Louisiana, 2014-2018					
	Number of Co-infections (Co-infection Rate per 100,000)*				
	2014	2015	2016	2017	2018
Louisiana	387 (8.3)	439 (9.4)	556 (11.9)	729 (15.6)	761 (16.3)
Region					
1-New Orleans	160 (18.0)	199 (22.2)	249 (27.8)	357 (39.6)	385 (43.0)
2-Baton Rouge	105 (15.5)	108 (15.8)	111 (16.2)	105 (15.3)	119 (17.5)
3-Houma	16 (3.9)	21 (5.2)	22 (5.4)	29 (7.2)	36 (9.0)
4-Lafayette	23 (3.8)	31 (5.1)	48 (7.9)	69 (11.3)	77 (12.7)
5-Lake Charles	6 (2.0)	15 (5.0)	6 (2.0)	16 (5.3)	8 (2.6)
6-Alexandria	5 (1.6)	8 (2.6)	10 (3.3)	21 (6.9)	19 (6.3)
7-Shreveport	38 (6.9)	25 (4.6)	49 (9.0)	65 (12.0)	51 (9.5)
8-Monroe	17 (4.8)	18 (5.1)	32 (9.0)	49 (13.9)	35 (10.0)
9-Hammond/Slidell	17 (3.0)	14 (2.4)	29 (5.0)	18 (3.1)	31 (5.3)

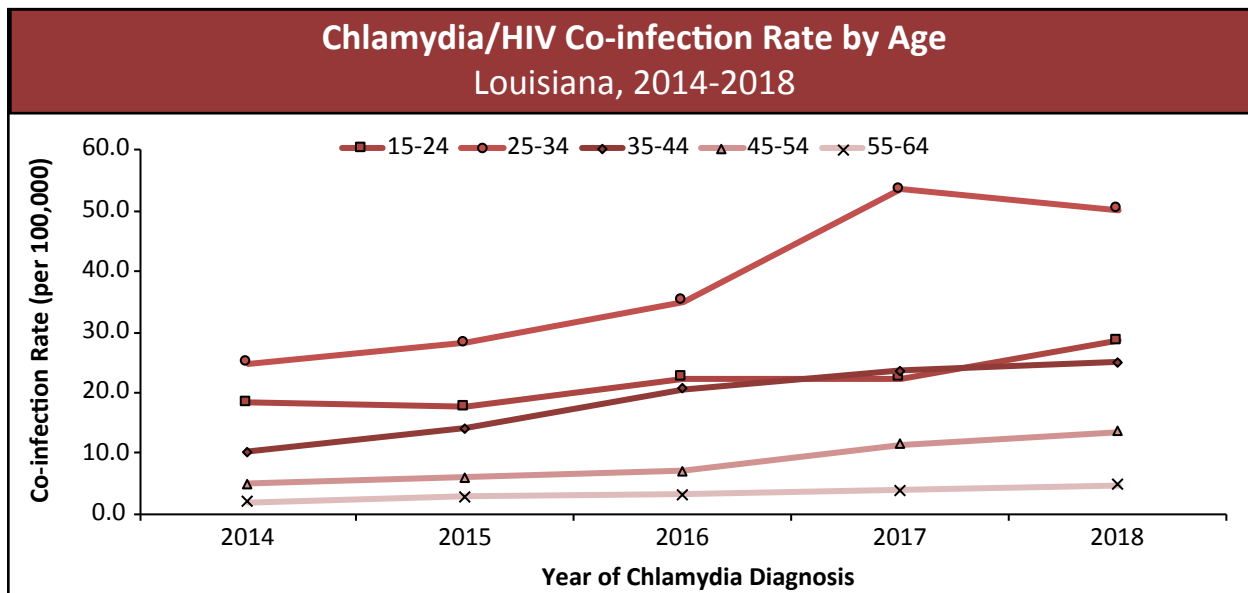
*Rates derived from numerators less than 20 may be unreliable.

- The three regions with the highest chlamydia/HIV co-infection rates in 2018 included New Orleans (43.0 cases per 100,000), Baton Rouge (17.5 per 100,000), and Lafayette (12.7 per 100,000).
- From 2016 to 2018, the chlamydia/HIV co-infection rate almost doubled in Alexandria. During the same period, the rate increased by 66% in Houma, by 61% in Lafayette, by 55% in New Orleans, and by 30% in Lake Charles. The rate only increased slightly (< 10%) in Baton Rouge, Shreveport, and Hammond/Slidell.



*Latina females are not included in the above graph as this group accounted for less than 5 cases each year.

- In 2018, the chlamydia/HIV co-infection rate for Black males was almost six times the rate for White males and three times the rate for Latino males. During the same year, the rate for Latino males was two times the rate for White males.
- In 2018, the chlamydia/HIV co-infection rate for Black women was 22 times the rate for White women.
- Between 2016 and 2018, White males experienced the greatest increase in chlamydia/HIV co-infection rate (79% increase) followed by Black males (46% increase). During the same period, White females experienced a 9% decrease, Black females experienced an 8% decrease, and Latino males experienced a 2% decrease.



- In 2018, persons age 25-34 years old had the highest chlamydia/HIV co-infection rate at 50.1 per 100,000. This rate is almost two times the second highest rate of 28.6 per 100,000 for persons age 15-24 years old.
- Between 2016 and 2018, the chlamydia/HIV co-infection rate for persons age 45-54 years old almost doubled. During the same time, the rate increased by 52% for persons age 55-64 years old, increased by 43% for persons age 25-34 years old, increased by 28% for persons age 15-24 years old, and increased by 21% for persons age 35-44 years old.

Characteristics of Persons with Chlamydia/HIV Co-infection Louisiana, 2018			
	Number of Co-infections	Percent	Co-infection Rate (per 100,000)*
Total	761	100%	16.3
Sex at Birth			
Female	129	17%	5.4
Male	632	83%	27.8
Race/Ethnicity			
Black/African American	563	74%	37.5
Hispanic/Latinx	33	4%	13.5
White	150	20%	5.5
Other/Multi-race	15	2%	8.2
Age Group	Age at Chlamydia Diagnosis		
Under 15	0	0%	0.0
15-24	173	23%	28.6
25-34	334	44%	50.1
35-44	146	19%	25.0
45-54	76	10%	13.5
55-64	29	4%	4.8
65+	3	0.4%	n/a
HIV Transmission Risk			
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	558	73%	-
Persons Who Inject Drugs (PWID)	19	2%	-
GBM/PWID	24	3%	-
High Risk Heterosexual (HRH)	148	19%	-
Other	12	2%	-
Timing of Chlamydia Infection			
Concurrent HIV/Chlamydia Diagnoses**	59	8%	-
1 Month - 2 Years After HIV Diagnosis	226	30%	-
3-10 Years After HIV Diagnosis	303	40%	-
11+ Years After HIV Diagnosis	159	21%	-
Less than 1 year before HIV Diagnosis	14	2%	-

*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

**Concurrent chlamydia/HIV diagnoses is defined as having a confirmed HIV diagnosis within 30 days before or after having a confirmed chlamydia diagnosis.

- In 2018, males accounted for 83% of chlamydia/HIV co-infections but only accounted for 31% of all chlamydia diagnoses.
- Blacks accounted for 74% of chlamydia/HIV co-infections in 2018 even though Blacks make up only 32% of Louisiana's population, representing a large racial disparity.
- In 2018, persons 35 and older accounted for 33% of chlamydia/HIV co-infections but only accounted for 7% of all chlamydia diagnoses.
- Gay, bisexual, and other men who have sex with men (GBM) accounted for 73% of chlamydia/HIV co-infections in 2018.
- In 2018, 61% of chlamydia/HIV co-infections occurred among persons that had been living with HIV for three years or longer.

Hepatitis C and HIV Co-Infection

Hepatitis C virus (HCV) is a blood-borne virus that is typically transmitted through syringe sharing and the use of unsterile equipment associated with injection drug use. Rarely, HCV transmission can occur through sexual contact, tattoo application in unregulated settings, and among infants born to mothers living with HCV. Before 1990, persons may have also acquired HCV from a blood transfusion, medical blood products, or kidney dialysis equipment. The risk of HCV transmission (and HIV transmission) associated with medical treatments has decreased greatly since 1990 due to the introduction of routine screening of blood products and widespread use of sterile syringes in healthcare settings. Most persons living with HCV do not experience any recognizable symptoms during the acute phase of an HCV infection. Symptoms of acute HCV, when they do occur, are typically mild and may include flu-like symptoms, abnormal bloodwork, or jaundice. It's estimated that 60-85% of persons with acute HCV will go on to develop a chronic HCV infection. Persons with chronic HCV do not usually experience any further symptoms until advanced disease progression has already occurred. Left untreated, an estimated 10-20% of persons living with chronic HCV will develop HCV-related cirrhosis 20-30 years after the initial HCV infection. Due to the asymptomatic nature of the disease, many persons living with HCV may be unaware of their status. Routine HCV testing of high-risk persons is important for early diagnosis and treatment.^{xxx,xxxi}

From 2010 to 2016, the number of reported HCV diagnoses in the US more than tripled and reached a 16-year high in 2016. HCV rates are most rapidly increasing among persons 20-29 years old primarily due to injection drug-use associated with growing opioid-use; however, HCV continues to be most prevalent among persons born between 1945 and 1965. Based on 2003-2010 data from national health surveys, an estimated 3.5 million persons are living with HCV in the US. Although HCV is a reportable disease, HCV infections in the US are critically underreported due to a low volume of routine HCV screening among high-risk groups and a lack of resources devoted to viral hepatitis state surveillance programs.^{xxx,xxxii}

Co-infection with HIV and HCV is commonly associated with sharing syringes or using previously-used syringes for injection drug use. While both represent a serious health concern, especially among persons who inject drugs, HCV/HIV co-infection introduces additional complication in the treatment and disease progression of both conditions.^{xxxi,xxxiii}

Region of Residence of Persons with HCV/HIV Co-infection Louisiana, 2017-2018						
	2017			2018		
	# Co-infections	Percent	Co-infection Rate (per 100,000)*	# Co-infections	Percent	Co-infection Rate (per 100,000)*
Louisiana	205	100%	4.4	275	100%	5.9
Region						
1-New Orleans	60	29%	6.7	107	39%	12.0
2-Baton Rouge	66	32%	9.6	106	39%	15.6
3-Houma	10	5%	2.5	7	3%	1.8
4-Lafayette	17	8%	2.8	11	4%	1.8
5-Lake Charles	19	9%	6.3	3	1%	n/a
6-Alexandria	10	5%	3.3	12	4%	4.0
7-Shreveport	7	3%	1.3	7	3%	1.3
8-Monroe	6	3%	1.7	8	3%	2.3
9-Hammond/Slidell	10	5%	1.7	14	5%	2.4

*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- From 2017 to 2018, the number of persons living in Louisiana with an HCV/HIV co-infection increased by 34% from 205 persons in 2017 to 275 persons in 2018. During the same period, the HCV/HIV co-infection rate increased by 35% from 4.4 per 100,000 in 2017 to 5.9 per 100,000 in 2018.
- In 2018, the New Orleans and Baton Rouge regions accounted for 78% of persons with HCV/HIV co-infections in Louisiana.
- From 2017-2018, the HCV/HIV co-infection rate in New Orleans increased by 80% and the rate in Baton Rouge increased by 61%.

Characteristics of Persons with HCV/HIV Co-infection Louisiana, 2017-2018						
	2017			2018		
	# Co-infections	Percent	Co-infection Rate (per 100,000)*	# Co-infections	Percent	Co-infection Rate (per 100,000)*
TOTAL	205	100%	4.4	275	100%	5.9
Sex at Birth						
Female	57	28%	2.4	67	24%	2.8
Male	148	72%	6.5	208	76%	9.1
Race/Ethnicity						
Black/African American	143	70%	9.5	191	69%	12.7
Hispanic/Latino	4	2%	n/a	8	3%	3.3
White	56	27%	2.0	72	26%	2.6
Other/Multi-race	2	1%	n/a	4	1%	n/a
Age at HCV Diagnosis						
15-24	8	4%	1.3	6	2%	1.0
25-34	25	12%	3.7	50	18%	7.5
35-44	41	20%	7.1	66	24%	11.3
45-54	54	26%	9.3	73	27%	13.0
55-64	66	32%	10.9	68	25%	11.2
65+	11	5%	1.6	12	4%	1.7
HIV Transmission Risk						
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	65	32%	-	91	33%	-
Persons Who Inject Drugs (PWID)	62	30%	-	90	33%	-
GBM/PWID	25	12%	-	35	13%	-
High Risk Heterosexual (HRH)	53	26%	-	59	21%	-
Other	0	0%	-	0	0%	-

*Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

- In 2018, males accounted for 76% of HCV/HIV co-infections.
- Persons 45 years old and older accounted for 56% of HCV/HIV co-infections in 2018.
- Gay, bisexual, and other men who have sex with men (GBM) and persons who inject drugs both accounted for the greatest proportions of HCV/HIV co-infections in 2018; each group accounted for 33% of HCV/HIV co-infections.

Appendices

The appendix contains additional tables relevant to the HIV Surveillance chapter of this report, Chapter 1 and the STD Surveillance Chapter, Chapter 4. Immediately following the tables are the Technical Notes and Works Cited.

HIV SURVEILLANCE TABLES

Trends in HIV Infection, Louisiana, 1979-2018

- This table includes the number of HIV Diagnoses, AIDS Diagnoses, Persons Living with HIV, and Deaths in Persons with HIV from 1979 to 2018. The number of deaths in 2018 are not finalized and are therefore not available.

New HIV Diagnoses by Region and Year, Louisiana, 2009-2018

- This table includes the number of New HIV Diagnoses from 2009 to 2018, for each of the nine public health regions in Louisiana.

New AIDS Diagnoses by Region and Year, Louisiana, 2009-2018

- This table includes the number of New AIDS Diagnoses from 2009 to 2018, for each of the nine public health regions in Louisiana.

Geographic Distribution of HIV in Louisiana, 2018

- This two-page table includes new AIDS Diagnoses in 2018, HIV Diagnoses in 2018, HIV Diagnosis Rate in 2018, Persons Living with HIV in 2018 and Deaths in Persons Living with HIV in 2017 for each of the nine public health regions and the 64 parishes of Louisiana.

Deaths among Persons with HIV, Louisiana, 2017

- This table contains the demographic breakdown of Persons with HIV who died in 2017 in Louisiana, regardless of cause of death.

STD SURVEILLANCE TABLES

Geographic Distribution of Chlamydia by Race/Ethnicity, Louisiana, 2018

- This two-page table includes Chlamydia diagnoses in 2018, for each of the nine public health regions and the 64 parishes of Louisiana.

Geographic Distribution of Gonorrhea by Race/Ethnicity, Louisiana, 2018

- This two-page table includes Gonorrhea diagnoses in 2018, for each of the nine public health regions and the 64 parishes of Louisiana.

Geographic Distribution of Primary & Secondary Syphilis by Race/Ethnicity, Louisiana, 2018

- This two-page table includes P&S syphilis diagnoses in 2018, for each of the nine public health regions and the 64 parishes of Louisiana.

Trends in HIV Infection Louisiana, 1979-2018

Year	New HIV Diagnoses	New AIDS Diagnoses	Persons Living with HIV Infection	Deaths
1979	1	1	1	0
1980	1	1	1	0
1981	5	0	7	0
1982	17	10	22	0
1983	59	27	70	7
1984	146	84	188	15
1985	384	151	499	38
1986	476	241	853	65
1987	755	417	1,394	93
1988	781	450	1,956	149
1989	1,028	612	2,640	292
1990	1,213	709	3,470	241
1991	1,538	933	4,572	237
1992	1,737	1,064	5,700	527
1993	1,700	1,131	6,728	586
1994	1,636	1,096	7,654	799
1995	1,477	1,036	8,331	891
1996	1,506	1,114	9,144	784
1997	1,491	936	10,213	552
1998	1,268	834	11,097	522
1999	1,227	787	12,005	496
2000	1,176	816	12,805	518
2001	1,125	879	13,502	571
2002	1,175	969	14,260	556
2003	1,044	888	14,848	587
2004	1,051	862	15,680	578
2005	961	798	13,249	589
2006	980	759	13,790	548
2007	1,076	809	14,401	519
2008	1,084	840	15,038	481
2009	1,194	785	15,699	540
2010	1,118	798	16,387	446
2011	1,201	781	17,077	467
2012	1,037	773	17,661	468
2013	1,134	704	18,362	406
2014	1,211	592	19,122	415
2015	1,115	510	19,832	407
2016	1,120	557	20,526	413
2017	1,015	505	21,142	400
2018	976	419	21,723	n/a*

*Data are not complete

New HIV Diagnoses by Region and Year Louisiana, 2009-2018										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Louisiana	1,194	1,118	1,201	1,037	1,134	1,211	1,115	1,120	1,015	976
1-New Orleans	380	339	406	334	377	354	363	348	299	277
2-Baton Rouge	309	296	290	254	244	318	250	230	213	216
3-Houma	41	55	56	54	57	52	63	59	42	46
4-Lafayette	85	88	88	81	91	110	89	110	110	128
5-Lake Charles	50	47	50	37	38	41	47	38	55	38
6-Alexandria	58	61	63	54	63	57	52	59	47	73
7-Shreveport	111	102	117	78	123	124	127	137	121	86
8-Monroe	71	58	65	76	77	89	63	70	59	51
9-Hammond/Slidell	89	72	66	69	64	66	61	69	69	61

New AIDS Diagnoses by Region and Year Louisiana, 2009-2018										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Louisiana	785	798	781	773	704	592	510	557	505	419
1-New Orleans	236	250	257	251	219	180	164	155	135	139
2-Baton Rouge	199	238	220	194	183	159	121	143	119	73
3-Houma	34	49	30	37	40	29	24	19	22	22
4-Lafayette	50	60	55	59	65	46	37	54	46	47
5-Lake Charles	42	29	38	33	26	18	21	25	22	13
6-Alexandria	41	35	40	35	25	24	21	29	31	27
7-Shreveport	76	52	61	67	64	46	48	60	58	54
8-Monroe	55	44	38	49	40	45	35	38	38	17
9-Hammond/Slidell	52	41	42	48	42	45	39	34	34	27

Geographic Distribution of HIV Louisiana, 2018						
Region	Parish	AIDS Diagnoses 2018*	HIV Diagnoses 2018	HIV Diagnosis Rate 2018**	Persons Living with HIV 2018	Deaths 2017
Statewide		419	976	21	21,723	400[†]
Region 1		139	277	31	7,504	116
	Jefferson	40	89	21	2,055	35
	Orleans	96	183	47	5,194	76
	Plaquemines	0	0	0	53	0
	St. Bernard	3	5	11	202	5
Region 2		73	216	32	5,095	99
	Ascension	6	12	10	258	6
	East Baton Rouge	55	177	40	4,066	81
	East Feliciana	2	5	26	185	1
	Iberville	6	7	21	287	6
	Pointe Coupee	3	6	27	58	1
	West Baton Rouge	0	6	23	119	1
	West Feliciana	1	3	n/a	122	3
Region 3		22	46	11	898	14
	Assumption	1	4	n/a	39	0
	Lafourche	1	8	8	169	4
	St. Charles	1	3	n/a	115	1
	St. James	6	7	33	80	1
	St. John the Baptist	3	9	21	179	4
	St. Mary	3	5	10	102	0
	Terrebonne	7	10	9	214	4
Region 4		47	128	21	1,740	35
	Acadia	5	10	16	125	0
	Evangeline	4	10	30	91	2
	Iberia	5	11	16	137	4
	Lafayette	15	62	26	850	12
	St. Landry	12	26	31	321	9
	St. Martin	2	4	n/a	111	6
	Vermilion	4	5	8	105	2
Region 5		13	38	13	1,010	19
	Allen	3	1	n/a	200	1
	Beauregard	0	0	0	43	0
	Calcasieu	8	34	17	698	17
	Cameron	0	0	0	4	0
	Jefferson Davis	2	3	n/a	65	1

Geographic Distribution of HIV Louisiana, 2018						
Region	Parish	AIDS Diagnoses 2018*	HIV Diagnoses 2018	HIV Diagnosis Rate 2018**	Persons Living with HIV 2018	Deaths 2017
Statewide		419	976	21	21,723	400[†]
Region 6		27	73	24	979	26
	Avoyelles	4	9	22	162	3
	Catahoula	1	3	n/a	32	2
	Concordia	2	1	n/a	44	4
	Grant	1	4	n/a	48	0
	La Salle	2	7	47	55	1
	Rapides	16	48	37	547	15
	Vernon	1	1	n/a	69	1
	Winn	0	0	0	22	0
Region 7		54	86	16	1,943	40
	Bienville	3	0	0	35	1
	Bossier	11	16	13	274	8
	Caddo	35	52	21	1,257	22
	Claiborne	1	1	n/a	76	1
	De Soto	2	4	n/a	56	1
	Natchitoches	0	3	n/a	130	4
	Red River	0	1	n/a	15	0
	Sabine	0	4	n/a	19	0
	Webster	2	5	13	81	3
Region 8		17	51	14	1,127	19
	Caldwell	0	2	n/a	22	1
	East Carroll	0	1	n/a	24	1
	Franklin	1	4	n/a	48	1
	Jackson	0	1	n/a	21	0
	Lincoln	0	10	21	103	2
	Madison	0	1	n/a	41	1
	Morehouse	2	1	n/a	62	4
	Ouachita	13	24	16	674	6
	Richland	0	3	n/a	45	2
	Tensas	1	1	n/a	32	0
	Union	0	3	n/a	40	1
	West Carroll	0	0	0	15	0
Region 9		27	61	10	1,427	32
	Livingston	6	10	7	230	9
	St. Helena	0	1	n/a	25	1
	St. Tammany	9	17	7	526	6
	Tangipahoa	10	23	17	438	14
	Washington	2	10	21	208	2

*AIDS diagnoses will be included in counts of HIV diagnosis (3rd Column) for persons first diagnosed with HIV at an AIDS diagnosis or within the same year; therefore numbers from the two columns should not be added.

**Rates per 100,000 persons in parish. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

† Statewide total may include Louisiana deaths that lack a parish of death.

Deaths Among Persons with HIV Louisiana, 2017		
	2017 Deaths	Percent
Total Deaths	400	100%
Diagnosis at Death		
AIDS	306	77%
HIV	94	23%
Gender		
Men	270	67%
Women	127	32%
Transgender Women	3	1%
Race/Ethnicity		
Black/African American	277	69%
Hispanic/Latinx	5	1%
White	113	28%
Multi-Race/Other	5	1%
Age at Death		
20-24	5	1%
25-34	35	9%
35-44	68	17%
45-54	108	27%
55-64	115	29%
65+	69	17%
Imputed Transmission Category		
Gay, Bisexual, & Other Men who have Sex with Men (GBM)	140	35%
Persons Who Inject Drugs (PWID)	71	18%
GBM/PWID	25	6%
High Risk Heterosexual (HRH)	161	40%
Transfusion/Hemophilia*	2	<1%
Pediatric*	1	<1%
Region		
1-New Orleans	116	29%
2-Baton Rouge	99	25%
3-Houma	14	4%
4-Lafayette	35	9%
5-Lake Charles	19	5%
6-Alexandria	26	7%
7-Shreveport	40	10%
8-Monroe	19	5%
9-Hammond/Slidell	32	8%
Rural/Urban		
Rural	44	11%
Urban	356	89%

*Transmission category not imputed.

Geographic Distribution of Chlamydia by Race/Ethnicity Louisiana, 2018								
	White		Black/African American		Hispanic/Latinx		Total†	
Parish	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	9,255	339	25,267	1,681	1,381	566	36,293	779
Region 1: New Orleans	1,602	410	6,194	1,706	678	729	8,599	961
Jefferson	748	329	1,870	1,606	483	749	3,163	729
Orleans	677	563	4,053	1,753	169	769	4,953	1,267
Plaquemines	53	359	45	928	4	n/a	109	466
St. Bernard	124	428	226	2,111	22	461	374	800
Region 2: Baton Rouge	1,031	282	4,186	1,478	188	657	5,460	801
Ascension	230	271	350	1,208	38	531	623	500
East Baton Rouge	613	313	3,232	1,575	135	728	4,024	913
East Feliciana	26	250	115	1,402	0	0	141	730
Iberville	70	450	238	1,507	3	n/a	312	954
Pointe Coupee	33	250	92	1,187	4	n/a	130	593
West Baton Rouge	45	308	126	1,211	7	824	180	681
West Feliciana	14	171	33	482	1	n/a	50	323
Region 3: Houma	965	384	1,869	1,780	93	451	3,002	754
Assumption	45	308	122	1,862	5	713	172	771
Lafourche	264	350	333	2,538	10	233	612	624
St. Charles	95	277	213	1,550	9	270	319	603
St. James	21	207	169	1,645	3	n/a	194	922
St. John the Baptist	42	286	364	1,478	27	986	434	1,005
St. Mary	141	504	204	1,307	11	310	363	729
Terrebonne	357	482	464	2,205	28	498	908	818
Region 4: Lafayette	1,249	314	2,325	1,403	96	418	3,707	612
Acadia	143	298	180	1,615	6	354	331	532
Evangeline	60	269	127	1,388	5	389	193	577
Iberia	154	369	389	1,708	12	393	565	796
Lafayette	483	304	881	1,376	58	514	1,440	593
St. Landry	145	322	377	1,103	3	n/a	528	638
St. Martin	116	335	243	1,523	6	375	365	681
Vermilion	148	316	128	1,511	6	273	285	476
Region 5: Lake Charles	745	346	1,015	1,511	49	456	1,839	604
Allen	46	253	31	543	0	0	78	305
Beauregard	80	268	54	1,206	3	n/a	140	376
Calcasieu	486	356	838	1,626	44	574	1,393	686
Cameron	17	273	1	n/a	0	0	18	258
Jefferson Davis	116	471	91	1,755	2	n/a	210	665

Geographic Distribution of Chlamydia by Race/Ethnicity Louisiana, 2018

	White		Black/African American		Hispanic/Latinx		Total†	
Parish	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	9,255	339	25,267	1,681	1,381	566	36,293	779
Region 6: Alexandria	743	378	1,425	1,773	58	486	2,240	745
Avoyelles	106	403	270	2,258	2	n/a	380	939
Catahoula	18	283	45	1,535	0	0	63	656
Concordia	26	232	106	1,369	2	n/a	134	685
Grant	84	488	40	1,169	5	426	129	574
La Salle	37	300	19	1,064	5	1,136	61	409
Rapides	276	346	772	1,863	9	216	1,061	813
Vernon	157	459	107	1,584	35	764	307	628
Winn	39	427	66	1,525	0	0	105	743
Region 7: Shreveport	965	335	3,762	1,804	74	374	4,822	898
Bienville	22	303	111	2,011	0	0	134	1,007
Bossier	317	376	508	1,778	37	430	867	682
Caddo	349	322	2,184	1,820	28	400	2,572	1,059
Claiborne	14	196	110	1,337	4	n/a	128	803
De Soto	45	279	187	1,907	0	0	233	849
Natchitoches	66	323	278	1,755	1	n/a	345	892
Red River	22	458	56	1,678	2	n/a	80	944
Sabine	53	327	59	1,473	1	n/a	115	479
Webster	77	322	269	2,039	1	n/a	348	897
Region 8: Monroe	573	282	2,772	2,136	30	346	3,387	970
Caldwell	27	342	9	571	0	0	36	361
East Carroll	6	308	90	1,880	0	0	96	1,364
Franklin	26	198	122	1,921	0	0	148	734
Jackson	34	317	73	1,615	1	n/a	109	685
Lincoln	84	333	530	2,787	5	330	625	1,324
Madison	11	292	145	2,081	0	0	156	1,398
Morehouse	42	338	252	2,078	5	1,433	299	1,177
Ouachita	267	298	1,275	2,212	15	436	1,558	1,009
Richland	29	236	140	1,960	1	n/a	171	847
Tensas	2	n/a	21	873	0	0	23	515
Union	32	207	102	1,838	2	n/a	139	622
West Carroll	13	151	13	758	1	n/a	27	246
Region 9: Hammond/Slidell	1,374	310	1,705	1,699	98	358	3,193	543
Livingston	466	382	122	1,335	27	503	619	444
St. Helena	7	154	46	863	0	0	53	516
St. Tammany	496	245	467	1,477	42	284	1,013	392
Tangipahoa	279	330	839	2,086	26	444	1,147	857
Washington	126	413	231	1,647	3	n/a	361	775

*Rates per 100,000 persons in parish. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

** Louisiana total includes cases with unknown parish.

† The totals include cases with other and unknown race.

Geographic Distribution of Gonorrhea by Race/Ethnicity Louisiana, 2018								
Parish	White		Black/African American		Hispanic/Latinx		Total†	
	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	2,640	96	9,061	602	242	99	12,043	258
Region 1: New Orleans	561	143	2,396	660	138	148	3,124	349
Jefferson	156	69	644	553	81	126	899	207
Orleans	365	304	1,677	726	53	241	2,105	538
Plaquemines	5	34	11	227	1	n/a	18	77
St. Bernard	35	121	64	598	3	n/a	102	218
Region 2: Baton Rouge	215	63	1,471	520	20	70	1,718	252
Ascension	51	60	66	228	5	70	124	99
East Baton Rouge	128	65	1,269	618	11	59	1,417	321
East Feliciana	5	48	28	341	0	0	33	171
Iberville	14	90	45	285	1	n/a	61	186
Pointe Coupee	5	38	24	310	0	0	29	132
West Baton Rouge	11	75	31	298	3	n/a	45	170
West Feliciana	1	n/a	8	117	0	0	9	58
Region 3: Houma	273	109	510	486	10	49	814	204
Assumption	7	48	27	412	0	0	35	157
Lafourche	68	90	108	823	1	n/a	178	181
St. Charles	23	67	64	466	1	n/a	89	168
St. James	2	n/a	39	380	0	0	41	195
St. John the Baptist	11	75	60	244	4	n/a	75	174
St. Mary	37	132	47	301	0	0	84	169
Terrebonne	125	169	165	784	4	n/a	312	281
Region 4: Lafayette	391	98	747	451	12	52	1,155	191
Acadia	36	75	55	493	1	n/a	92	148
Evangeline	27	121	45	492	0	0	72	215
Iberia	41	98	98	430	2	n/a	141	199
Lafayette	154	97	277	433	5	44	440	181
St. Landry	49	109	173	506	0	0	222	268
St. Martin	40	116	64	401	2	n/a	106	198
Vermilion	44	94	35	413	2	n/a	82	137
Region 5: Lake Charles	203	94	335	499	14	130	564	185
Allen	17	94	12	210	3	n/a	33	129
Beauregard	28	94	21	469	0	0	49	132
Calcasieu	113	83	274	532	11	143	408	201
Cameron	1	n/a	0	0	0	0	1	n/a
Jefferson Davis	44	179	28	540	0	0	73	231

Geographic Distribution of Gonorrhea by Race/Ethnicity Louisiana, 2018

	White		Black/African American		Hispanic/Latinx		Total†	
Parish	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	2,640	96	9,061	602	242	99	12,043	258
Region 6: Alexandria	296	151	553	688	11	92	865	288
Avoyelles	46	175	100	836	2	n/a	150	371
Catahoula	3	n/a	8	273	1	n/a	12	125
Concordia	9	80	22	284	1	n/a	33	169
Grant	33	192	14	409	0	0	47	209
La Salle	10	81	1	n/a	0	0	11	74
Rapides	151	189	349	842	3	n/a	504	386
Vernon	37	108	29	429	4	n/a	71	145
Winn	7	77	30	693	0	0	37	262
Region 7: Shreveport	254	88	1,436	689	20	101	1,716	320
Bienville	4	n/a	34	616	0	0	38	286
Bossier	60	71	197	690	11	128	269	212
Caddo	122	113	921	768	7	100	1,052	433
Claiborne	4	n/a	44	535	0	0	48	301
De Soto	12	74	49	500	2	n/a	63	230
Natchitoches	14	68	65	410	0	0	81	210
Red River	2	n/a	9	270	0	0	11	130
Sabine	9	56	11	275	0	0	20	83
Webster	27	113	106	803	0	0	134	345
Region 8: Monroe	140	69	1,020	786	9	104	1,174	336
Caldwell	7	89	4	n/a	0	0	11	110
East Carroll	1	n/a	22	460	0	0	23	327
Franklin	2	n/a	37	582	0	0	39	193
Jackson	7	65	15	332	0	0	22	138
Lincoln	15	60	204	1,073	3	n/a	224	475
Madison	1	n/a	37	531	0	0	38	340
Morehouse	16	129	89	734	0	0	105	413
Ouachita	72	80	518	899	3	n/a	594	385
Richland	10	81	39	546	1	n/a	52	258
Tensas	0	0	4	n/a	0	0	4	n/a
Union	5	32	47	847	2	n/a	54	242
West Carroll	4	n/a	4	n/a	0	0	8	73
Region 9: Hammond/Slidell	305	69	588	586	7	26	904	154
Livingston	105	86	30	328	0	0	136	97
St. Helena	1	n/a	18	338	0	0	19	185
St. Tammany	114	56	135	427	3	n/a	254	98
Tangipahoa	63	75	334	830	1	n/a	399	298
Washington	22	72	71	506	3	n/a	96	206

*Rates per 100,000 persons in parish. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

**The Louisiana Strata include cases with unknown parish.

† The totals include cases with other and unknown race.

Geographic Distribution of Primary & Secondary Syphilis by Race/Ethnicity Louisiana, 2018								
Parish	White		Black/African American		Hispanic/Latinx		Total†	
	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	220	8	428	28	13	5	669	14
Region 1: New Orleans	77	20	117	32	10	11	210	23
Jefferson	18	8	27	23	5	8	50	12
Orleans	57	47	86	37	5	23	154	39
Plaquemines	1	n/a	1	n/a	0	0	2	n/a
St. Bernard	1	n/a	3	n/a	0	0	4	n/a
Region 2: Baton Rouge	26	8	78	28	2	n/a	106	16
Ascension	3	n/a	3	n/a	1	n/a	7	6
East Baton Rouge	16	8	69	34	1	n/a	86	20
East Feliciana	0	0	0	0	0	0	0	0
Iberville	2	13	4	n/a	0	0	6	18
Pointe Coupee	1	n/a	1	n/a	0	0	2	n/a
West Baton Rouge	4	n/a	1	n/a	0	0	5	19
West Feliciana	0	0	0	0	0	0	0	0
Region 3: Houma	9	4	10	10	0	0	19	5
Assumption	0	0	0	0	0	0	0	0
Lafourche	1	n/a	1	n/a	0	0	2	n/a
St. Charles	1	n/a	1	n/a	0	0	2	n/a
St. James	0	0	3	n/a	0	0	3	n/a
St. John the Baptist	1	n/a	3	n/a	0	0	4	n/a
St. Mary	1	n/a	0	0	0	0	1	n/a
Terrebonne	5	7	2	n/a	0	0	7	6
Region 4: Lafayette	19	5	22	13	0	0	42	7
Acadia	5	10	0	0	0	0	5	8
Evangeline	2	n/a	2	n/a	0	0	4	n/a
Iberia	5	12	5	22	0	0	10	14
Lafayette	4	n/a	5	8	0	0	9	4
St. Landry	0	0	5	15	0	0	5	6
St. Martin	1	n/a	3	n/a	0	0	5	9
Vermilion	2	n/a	2	n/a	0	0	4	n/a
Region 5: Lake Charles	2	n/a	6	9	0	0	8	3
Allen	0	0	0	0	0	0	0	0
Beauregard	0	0	0	0	0	0	0	0
Calcasieu	1	n/a	5	10	0	0	6	3
Cameron	0	0	0	0	0	0	0	0
Jefferson Davis	1	n/a	1	n/a	0	0	2	n/a

Geographic Distribution of Primary & Secondary Syphilis by Race/Ethnicity Louisiana, 2018								
	White		Black/African American		Hispanic/Latinx		Total†	
Parish	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Louisiana**	220	8	428	28	13	5	669	14
Region 6: Alexandria	42	21	50	62	0	0	92	31
Avoyelles	2	n/a	4	n/a	0	0	6	15
Catahoula	0	0	1	n/a	0	0	1	n/a
Concordia	0	0	1	n/a	0	0	1	n/a
Grant	3	n/a	0	0	0	0	3	n/a
La Salle	2	n/a	0	0	0	0	2	n/a
Rapides	33	41	43	104	0	0	76	58
Vernon	2	n/a	1	n/a	0	0	3	n/a
Winn	0	0	0	0	0	0	0	0
Region 7: Shreveport	24	8	63	30	1	n/a	88	16
Bienville	0	0	0	0	0	0	0	0
Bossier	4	n/a	7	25	0	0	11	9
Caddo	14	13	50	42	0	0	64	26
Claiborne	0	0	0	0	0	0	0	0
De Soto	1	n/a	0	0	0	0	1	n/a
Natchitoches	2	n/a	1	n/a	1	n/a	4	n/a
Red River	2	n/a	3	n/a	0	0	5	59
Sabine	0	0	1	n/a	0	0	1	n/a
Webster	1	n/a	1	n/a	0	0	2	n/a
Region 8: Monroe	5	2	70	54	0	0	75	21
Caldwell	0	0	0	0	0	0	0	0
East Carroll	0	0	1	n/a	0	0	1	n/a
Franklin	0	0	1	n/a	0	0	1	n/a
Jackson	1	n/a	4	n/a	0	0	5	31
Lincoln	1	n/a	14	74	0	0	15	32
Madison	0	0	1	n/a	0	0	1	n/a
Morehouse	0	0	8	66	0	0	8	32
Ouachita	3	n/a	33	57	0	0	36	23
Richland	0	0	2	n/a	0	0	2	n/a
Tensas	0	0	0	0	0	0	0	0
Union	0	0	5	90	0	0	5	22
West Carroll	0	0	1	n/a	0	0	1	n/a
Region 9: Hammond/Slidell	16	4	12	12	0	0	29	5
Livingston	0	0	2	n/a	0	0	2	n/a
St. Helena	0	0	0	0	0	0	0	0
St. Tammany	12	6	2	n/a	0	0	15	6
Tangipahoa	2	n/a	4	n/a	0	0	6	4
Washington	2	n/a	4	n/a	0	0	6	13

*Rates per 100,000 persons in parish. Rates derived from numerators less than 20 may be unreliable and are not available (n/a) for numerators less than 5.

**The Louisiana Strata include cases with unknown parish.

† The totals include cases with other race/ethnicities.

Program Report Technical Notes

Report Format

The *2018 HIV/STD/Hepatitis Surveillance Report* includes only HIV and STD surveillance data and does not include HIV/STD prevention and services data. This STD/HIV/Hepatitis Program Report is divided into the following sections: Introduction, Chapter 1: Profile of the HIV Epidemic in Louisiana, Chapter 2: Linkage and Retention in HIV Care, Chapter 3: Perinatal HIV Exposure and Congenital Syphilis, Chapter 4: Profile of STDs in Louisiana, Chapter 5: HIV Co-Infection with STDs and Hepatitis C, and an Appendix which includes additional HIV and STD tables.

Tabulation of Data

This report includes all STD information entered at the STD/HIV/Hepatitis Program office as of April 26, 2019 and all HIV information entered as of December 19, 2019. Chlamydia, gonorrhea, syphilis, congenital syphilis, HIV and AIDS cases diagnosed through 2018 are included in this report. The 2018 data are very complete and are not adjusted for a potential reporting delay. Due to reporting and collection delays for deaths among person with an HIV diagnosis and pediatric HIV exposures, those data are reported only through 2017 to ensure complete data.

Census Data and Rate Calculation

For all rates calculated for years 2009–2018, mid-year estimates for populations were obtained from the U.S. Census Bureau. The census estimates for 2010 are from the census data completed in 2010. These populations are used to calculate changes in the population, and incidence and prevalence rates. All rates are calculated per 100,000 persons except for death rates, which are calculated per 1,000 persons, and congenital syphilis rates which are calculated per 100,000 live births. An example of how rates are calculated is as follows. For the HIV diagnosis rate in 2018 for the New Orleans Public Health Region 1, the 2018 Census populations for the four parishes within Region 1 are added together equaling a regional population of 895,188 persons. Then the number of new HIV diagnoses in Region 1 in 2018, 277 new diagnoses, is divided by the totaled population, 895,188 persons to get 0.0003094. This number is multiplied by 100,000 to result in an HIV case rate of 30.94 per 100,000 population for Region 1 in 2018.

Interpretation of HIV Data

HIV data are not without limitations. Although an HIV diagnosis is usually closer in time to HIV infection than is an AIDS diagnosis, data represented by the time of HIV diagnosis must be interpreted with caution. HIV data may not accurately depict trends in HIV transmission because HIV data represent persons who were reported with a positive confidential HIV test, which may first occur several years after HIV infection. In addition, the data are underreported because only persons with HIV who choose to be tested confidentially are counted. HIV diagnoses do not include persons who have not been tested for HIV.

Therefore, HIV diagnosis data do not necessarily represent characteristics of persons who have been recently-infected with HIV nor do they provide a true measure of HIV incidence. Demographic and geographic subpopulations are disproportionately sensitive to differences and changes in access to health care, HIV testing patterns, and targeted prevention programs and services. All of these issues must be considered when interpreting HIV data.

Interpretation of STD and Hepatitis Data

Similar to the limitations of the HIV data, STD data in this report represent only persons who have been tested for an STD. For many people, symptoms of an STD may not be obvious or may be ignored and a person does not seek STD testing.

The Louisiana Department of Health – Office of Public Health has been tracking HCV diagnoses made in Louisiana since 1990, when HCV first became a reportable disease under the Louisiana Sanitary Code. In 2016, the case definition of chronic HCV was expanded to include persons that only had a positive HCV

antibody test result. Also in that year, chronic HCV became a laboratory-only reportable disease as oppose to a physician-reportable disease. These changes alone caused a large increase in the number of confirmed HCV cases reported from 2015 to 2016. As a result, the HIV/HCV co-infection analyses presented in this report are limited to HCV diagnoses made and reported in 2016.

HIV and AIDS Case Definition Changes

Most recently, the HIV surveillance case definitions were revised in 2008 for adults and adolescents (age ≥ 13 years).^{xxxiv} A single case definition was created that incorporates AIDS and an HIV classification system. HIV infection is now categorized into four stages based on severity. Stage 1 is HIV infection with no AIDS-defining conditions and either the CD4+ T-lymphocyte count is >500 cells/ μ l or the lymphocyte percentage is $\geq 29\%$. Stage 2 is HIV infection with no AIDS-defining conditions and either the CD4+ T-lymphocyte count is between 200-499 cells/ μ l or the lymphocyte percentage is between 14-28%. Stage 3 is AIDS where one of the following three conditions is met: CD4+ T-lymphocyte count is <200 cells/ μ l, or the lymphocyte percentage $<14\%$, or there is documentation of an AIDS-defining condition. An AIDS-defining condition supersedes the CD4 count or percentage. Stage 4 is an unknown stage where no information has been collected on AIDS-defining conditions, CD4 count, or percentage. Once a person is classified as Stage 2 or 3, they cannot be reclassified at a lower stage.^{xxxv}

The case definition for children less than 18 months of age has also been revised. The only category that was revised was “presumptively uninfected” with HIV. Additional laboratory criteria were added. In children age 18 months to <13 years, the surveillance case definition requires laboratory-confirmed evidence of HIV infection.

The definition of Stage 3 (AIDS) was further modified for all HIV-positive persons with laboratory results in 2014 and going forward. The new case definition relies only on the diagnosis of an OI or a CD4 count below 200. If the CD4 lymphocyte count is above 200 and the lymphocyte percentage is below 14%, this no longer meets the surveillance definition for Stage 3 (AIDS). If no CD4 lymphocyte count is available then a CD4 lymphocyte percent below 14% does meet the surveillance definition for AIDS.

Definitions of the HIV Transmission Categories

For the purposes of this report, HIV and AIDS cases were classified into one of several hierarchical transmission (risk) categories, based on information collected. Persons with more than one reported mode of exposure to HIV were assigned to the category listed first in the hierarchy. Definitions are as follows:

Gay, Bisexual, and Other Men who have Sex with Men (GBM): Cases include persons whose birth sex is male who report sexual contact with other men, i.e. homosexual contact or bisexual contact. The CDC does calculate a risk of GBM for transgender women who report male sex partners, because the birth sex is collected as male.

Persons Who Inject Drugs (PWID): Cases who report using drugs that require injection - no other route of administration of illicit drugs at any time since 1978.

High-Risk Heterosexual Contact (HRH): Cases who report specific heterosexual contact with a person who has HIV or is at increased risk for acquiring HIV, e.g., heterosexual contact with a homosexual or bisexual man, heterosexual contact with an injection drug user, and/or heterosexual contact with a person known to be HIV-infected.

Hemophilia/Transfusion/Transplant (Hemo/Transf): Cases who report receiving a transfusion of blood or blood products prior to 1985.

Perinatal: HIV infection in children that results from transmission from an HIV-infected mother to her child.

Unspecified/NIR: Cases who, at the time of this publication, have no reported history of exposure to HIV

through any of the routes listed in the hierarchy of exposure categories. These cases are traditionally marked as No Identified Risk factor (NIR). NIR cases include: persons for whom risk behavior information has not yet been reported and are still under investigation; persons whose exposure history is incomplete because they have died, declined risk disclosure, or were lost to follow-up; persons who deny any risk behavior; and persons who do not know the HIV infection status or risk behaviors of their sexual partners. For this report, all cases with an unspecified transmission category were assigned an imputed transmission category. Imputation procedures are described below.

HIV Imputed Transmission Category

Newly reported cases, especially HIV (non-AIDS) cases, are often reported without a specified risk exposure, thereby causing a distortion of trends in exposure categories. Thus, statistical procedures to provide or impute predicted values of transmission category were used. All data in the graphs and tables throughout the surveillance section of the report represent imputed transmission categories. Values for transmission category for cases with no known risk were estimated using a statistical procedure known as hotdeck imputation, similar to methods used by the U.S. Census on the American Community Survey (www.census.gov/acs/www/Downloads/tp67.pdf). The Louisiana hotdeck imputation method was locally developed and validated against the CDC methodology. Logistic regression models were developed to identify those variables that are highly correlated with either a) missingness or b) one of the three chief risk factors for acquiring HIV (GBM, PWID, HRH). Next, a profile for each case was constructed using information from these variables, including age, race, sex, parish of residence, incarceration history, substance use, and year of infection. Finally, a predicted value for risk was then obtained by matching cases with no known risk to cases with a known risk along this profile and substituting the missing risk value. Transmission categories are not imputed for STD data.

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