WEST VIRGINIA HIV/AIDS SURVEILLANCE REPORT

2017

West Virginia HIV/AIDS Surveillance Program

WEST VIRGINIA Department of Health & Human Resources
BUREAU FOR PUBLIC HEALTH

Office of Epidemiology and Prevention Services
350 Capitol Street, Room 125
Charleston, West Virginia 25301

William Hoffman, Epidemiologist
Division of STD, HIV and Hepatitis

West Virginia
HIV/AIDS Surveillance Report
2017

Jim Justice, Governor
State of West Virginia

Bill J. Crouch, Cabinet Secretary
West Virginia Department of Health and Human Resources

Rahul Gupta, MD, MPH, FACP
Commissioner and State Health Officer
Bureau for Public Health

Loretta Haddy, PhD, MA, MS
State Epidemiologist
Bureau for Public Health

West Virginia Department of Health and Human Resources

Bureau for Public Health

Office of Epidemiology and Prevention Services

Division of STD, HIV and Hepatitis

Administrative and Staff Acknowledgements

ADMINISTRATION

Loretta Haddy, PhD, MA, MS	State Epidemiologist, Bureau for Public Health
Miguella Mark-Carew, PhD	Interim Director and Zoonotic Disease Program Director Office of Epidemiology and Prevention Services
Pamela Reynolds	Director, Division of STD, HIV and Hepatitis
Misty Ramsey	Secretary I

HIV/AIDS SURVEILLANCE STAFF

Vicki Hogan, MPH	HIV Surveillance Coordinator
William Hoffman, MPH	Epidemiologist
David Wills	HIV Data Manager

HIV/AIDS PREVENTION STAFF

Nils Haynes	HIV Prevention Specialist
Chuck Anziulewicz	HIV Prevention Specialist
Chuck Hall, MA	HIV Prevention Specialist
Jodie Baldwin, MS	HIV Prevention Specialist
Kimberly Moore	Micro Systems Support Specialist
Susan Hall, MA	Director, Ryan White Program

STD PREVENTION/SURVEILLANCE STAFF

Dianna Ryan, MA	Disease Intervention Specialist
John Armstrong	Disease Intervention Specialist
Bridget Connard	Disease Intervention Specialist
Anthony Vitale, PA	Disease Intervention Specialist
Chuck McConnell	Disease Intervention Specialist
Allan Zipf, MS	Disease Intervention Specialist
Matt Eakle	Disease Intervention Specialist
Nathan Kirk	Disease Intervention Specialist
Kenya Burton, MS, MA	Disease Intervention Specialist Supervisor
Debora Blankinship	STD Program Data Manager
Sandra Graham, RN, BSN	Adult Viral Hepatitis Prevention Coordinator
Darlene Stewart	Office Assistant III

Report prepared by:
William C. Hoffman, MPH

Edited by:
Loretta Haddy, PhD, MA, MS

An electronic version of the profile is available at:
www.hiv.wv.gov

Please forward any comments or questions regarding this report to:

William Hoffman, MPH
Epidemiologist
Office of Epidemiology and Prevention Services
350 Capitol Street, Room 125
Charleston, West Virginia 25301-3715
(304) 356-4054
Email: William.C.Hoffman@wv.gov

Pamela Reynolds
Director
Division of STD, HIV and Hepatitis
350 Capitol Street, Room 125
Charleston, West Virginia 25301-3715
(304) 356-4048
Email: Pamela.S.Reynolds@wv.gov

Data in this document are presented for diagnoses of HIV and AIDS reported to the West Virginia Department of Health and Human Resources through December 2016. Data are provisional and may vary in time due to new cases that are received and/or lost to other states. All data excludes individuals who currently reside in federal prison.

AIDS became a reportable disease by legislative rule in West Virginia in April 1984. HIV became reportable by name in West Virginia in September 1989.

NOTICE TO HEALTH CARE PROVIDERS, LABORATORIES, AND OTHERS RESPONSIBLE FOR DISEASE REPORTING:

West Virginia Code §16-3C-8, §16-3-1 et seq., 64CSR64, and 64CSR7 require that all positive HIV test results and all cases of AIDS as defined by the CDC must be reported to the West Virginia Bureau for Public Health. For information on the CDC AIDS case definition, to obtain case report forms, or to report a case, contact:

West Virginia Division of STD, HIV and Hepatitis
350 Capitol Street, Room 125
Charleston, West Virginia 25301-3715
Telephone (304) 558-2195 or 1-800-642-8244

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HIV – Not AIDS

Number of HIV Cases by Select Characteristics in West Virginia from 9/1989-12/2016							
Characteristic	**Cumulative through 2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**Cumulative through 2016***
Age at Diagnosis							
<13	12	<5	<5	<5	<5	<5	**13**
13-24	198	11	9	15	17	8	**258**
25-34	305	16	12	17	13	11	**374**
35-44	223	11	5	18	13	10	**280**
45-64	112	5	13	13	<5	11	**157**
65+	6	<5	<5	<5	<5	<5	**8**
Gender							
Male	634	29	30	48	36	32	**809**
Female	223	14	10	15	11	9	**282**
Race/Ethnicity							
White	531	28	27	50	39	30	**705**
Black	285	9	9	8	5	8	**324**
Hispanic	22	<5	<5	<5	<5	<5	**32**
Asian, Native Hawaiian or Pacific Islander	<5	<5	<5	<5	<5	<5	**5**
American Indian or Alaskan Native	<5	<5	<5	<5	<5	<5	**4**
Multiple Race	12	<5	<5	<5	<5	<5	**21**
Exposure Category							
Male-to-male sex (MSM)	413	17	19	38	31	24	**542**
Injection drug use (IDU)	148	6	7	<5	<5	<5	**169**
MSM/IDU	28	<5	<5	<5	<5	<5	**40**
Heterosexual contact	146	8	6	9	<5	7	**180**
Perinatal	12	<5	<5	<5	<5	<5	**13**
Other†/Unknown	110	10	7	10	5	5	**147**
Total	**857**	**43**	**40**	**63**	**47**	**41**	**1,091**

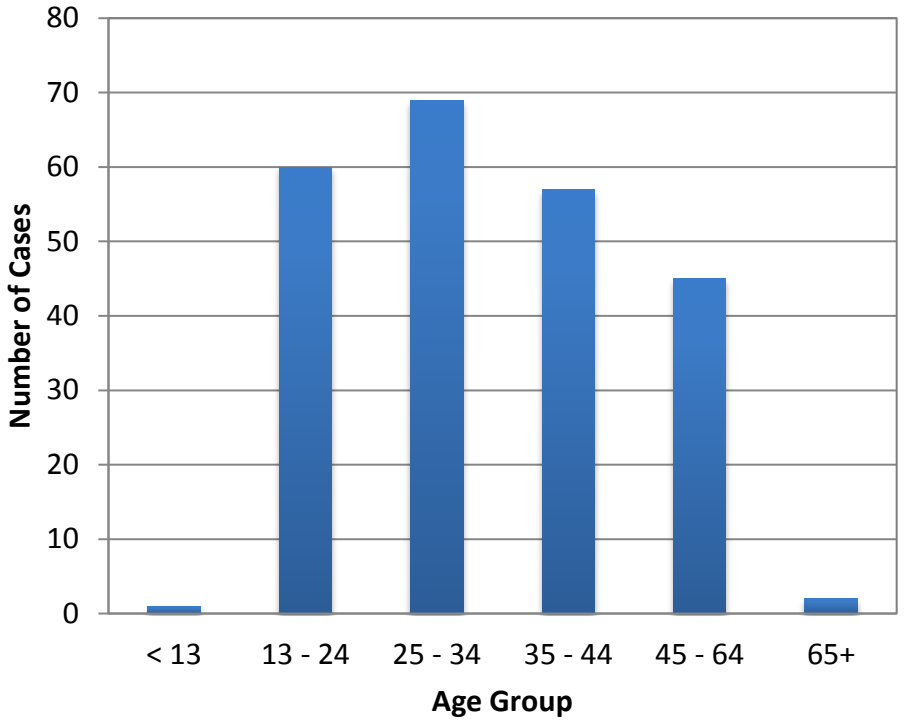
Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)

Notes: Data reflects HIV case numbers reported to the DHHR, BPH as of December 31, 2016. No adjustments were made for reporting delays. Numbers include only persons diagnosed with HIV infection who have not been diagnosed with AIDS as of December 31, 2016. Data are provisional and may vary in time due to new cases that are received and/or lost to other states. Only cases with West Virginia residence at diagnosis are reported. All data excludes individuals who currently reside in federal prison.

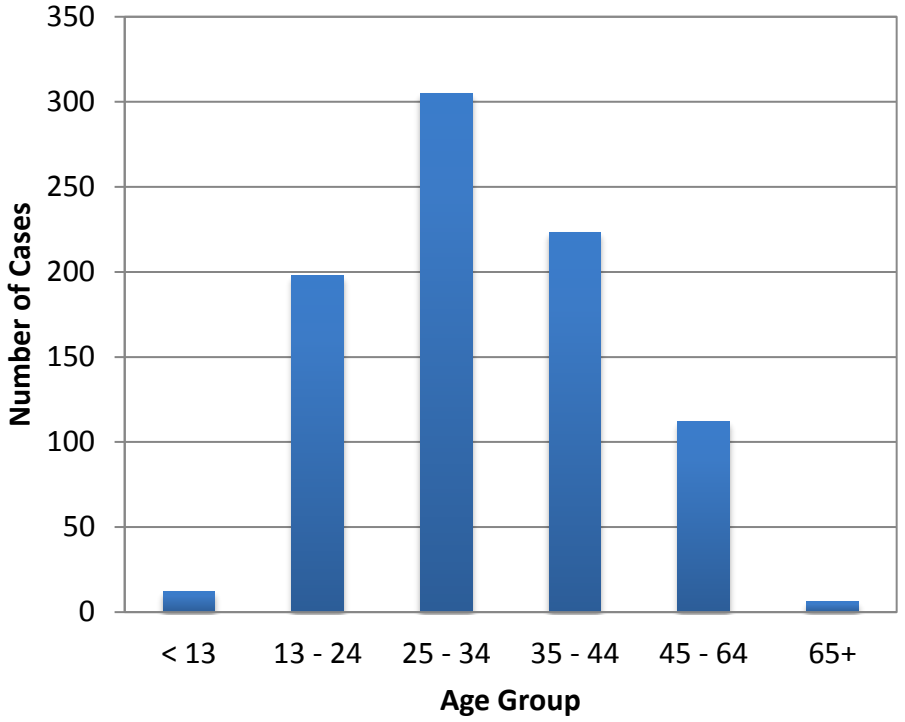
*Cumulative number of HIV-Not AIDS cases includes one case with unknown diagnosis year.

†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified.

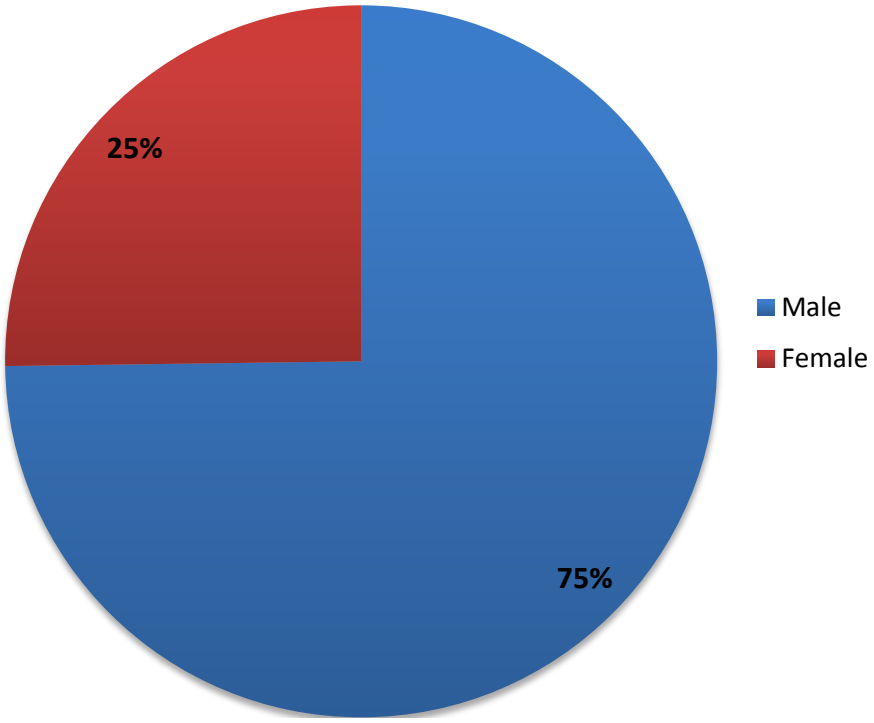
Number of HIV Cases by Age Group at Diagnosis in West Virginia from 2012-2016



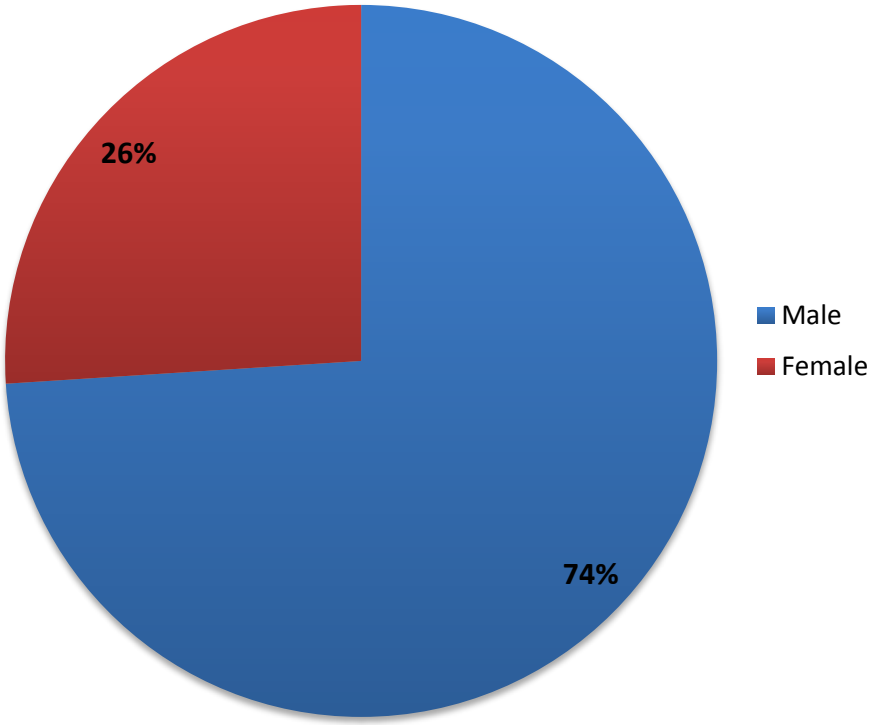
Number of HIV Cases by Age Group at Diagnosis in West Virginia from 1989-2011



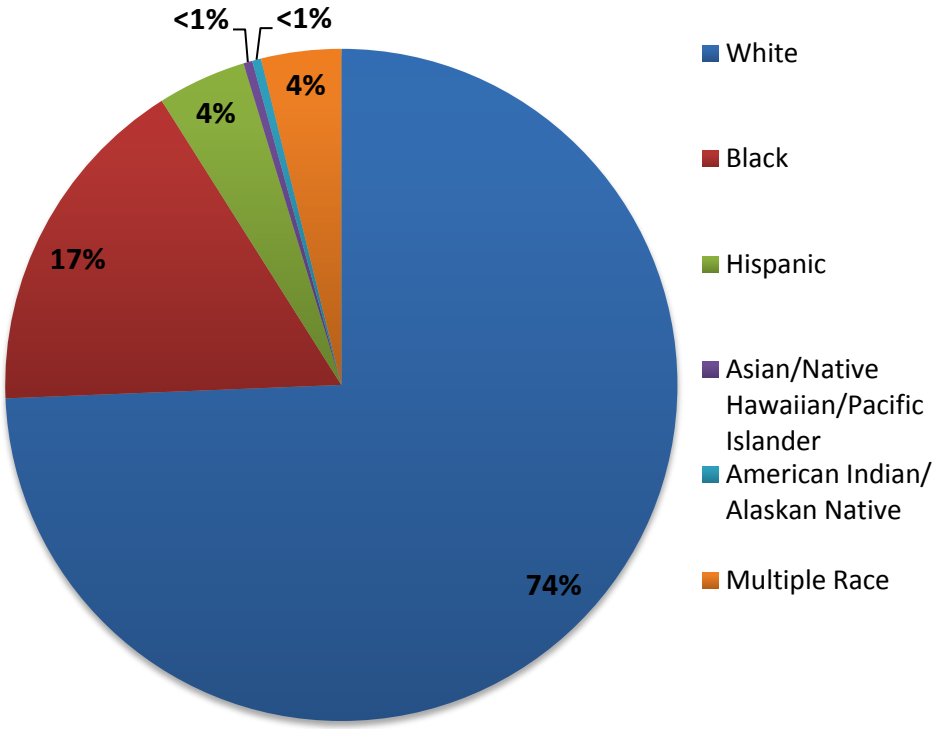
Percentage of HIV Cases by Gender in West Virginia from 2012-2016



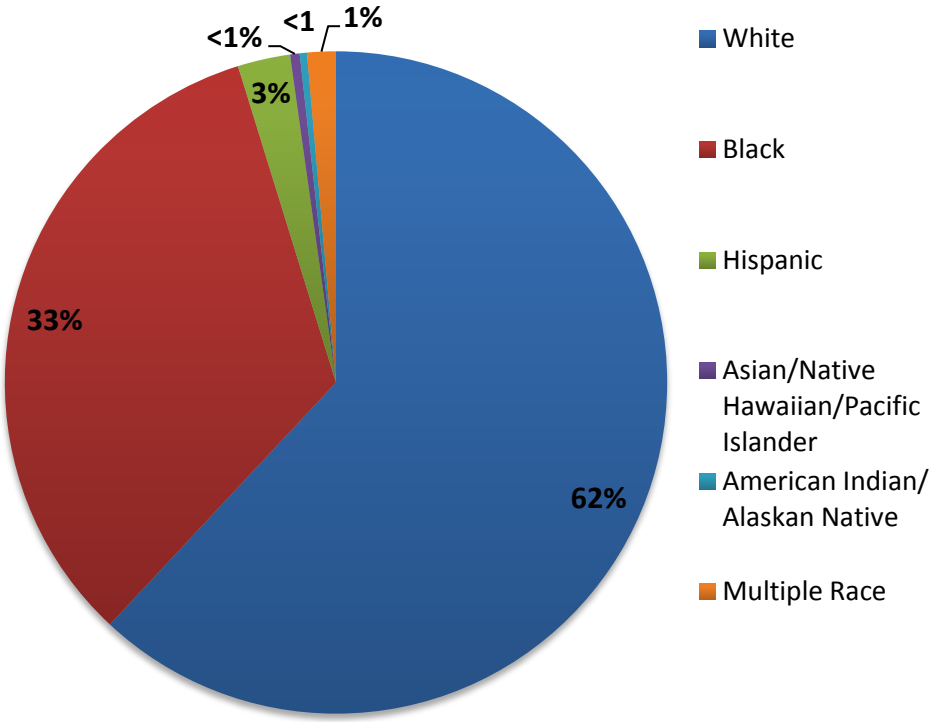
Percentage of HIV Cases by Gender in West Virginia from 1989-2011



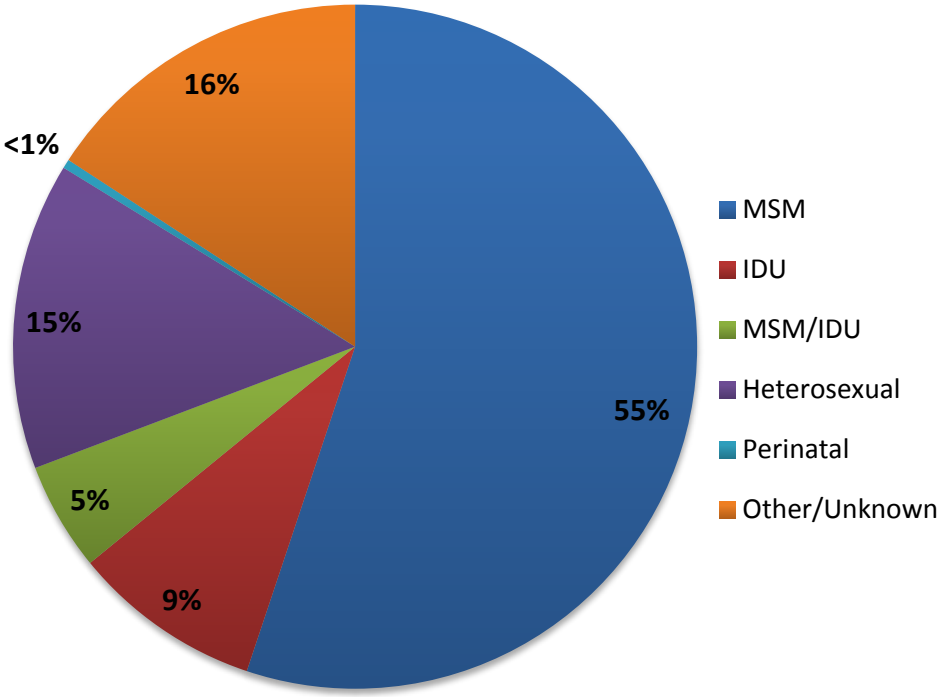
Percentage of HIV Cases by Race in West Virginia from 2012-2016



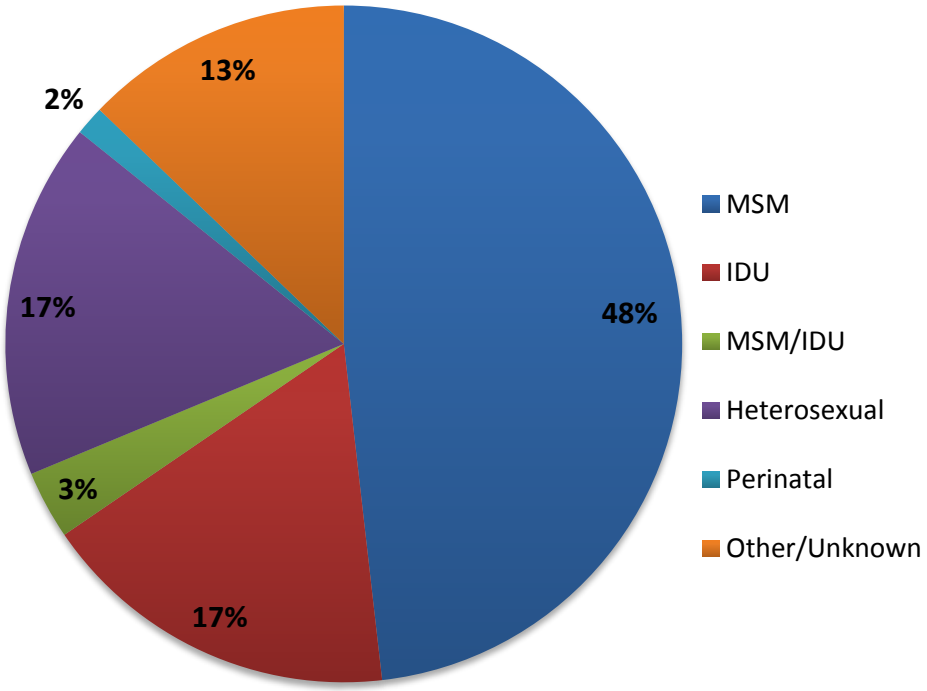
Percentage of HIV Cases by Race in West Virginia from 1989-2011



Percentage of HIV Cases by Exposure Category in West Virginia from 2012-2016



Percentage of HIV Cases by Exposure Category in West Virginia from 1989-2011



HIV/AIDS

Number of HIV/AIDS Cases by Select Characteristics in West Virginia from 4/1984-12/2016							
Characteristic	**Cumulative through 2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**Cumulative through 2016***
Age at Diagnosis							
<13	24	<5	<5	<5	<5	<5	**25**
13-24	372	17	11	22	18	9	**449**
25-34	875	24	27	23	20	17	**986**
35-44	846	21	13	23	24	15	**942**
45-64	497	20	25	27	13	26	**608**
65+	32	<5	<5	<5	<5	<5	**42**
Gender							
Male	2,120	63	65	79	61	55	**2,443**
Female	528	21	14	19	16	13	**611**
Race/Ethnicity							
White	1,908	52	54	78	59	51	**2,202**
Black	631	20	15	14	11	12	**703**
Hispanic	54	5	6	<5	<5	<5	**71**
Asian, Native Hawaiian or Pacific Islander	7	<5	<5	<5	<5	<5	**9**
American Indian or Alaskan Native	5	<5	<5	<5	<5	<5	**6**
Multiple Race	43	7	<5	<5	<5	<5	**63**
Exposure Category							
Male-to-male sex (MSM)	1,387	40	40	58	44	35	**1,604**
Injection drug use (IDU)	416	7	12	8	5	5	**453**
MSM/IDU	122	4	<5	<5	5	<5	**140**
Heterosexual contact	387	16	9	13	11	9	**445**
Perinatal	24	<5	<5	<5	<5	<5	**25**
Other†/Unknown	312	17	15	16	11	16	**387**
Total	**2,648**	**84**	**79**	**98**	**77**	**68**	**3,054**

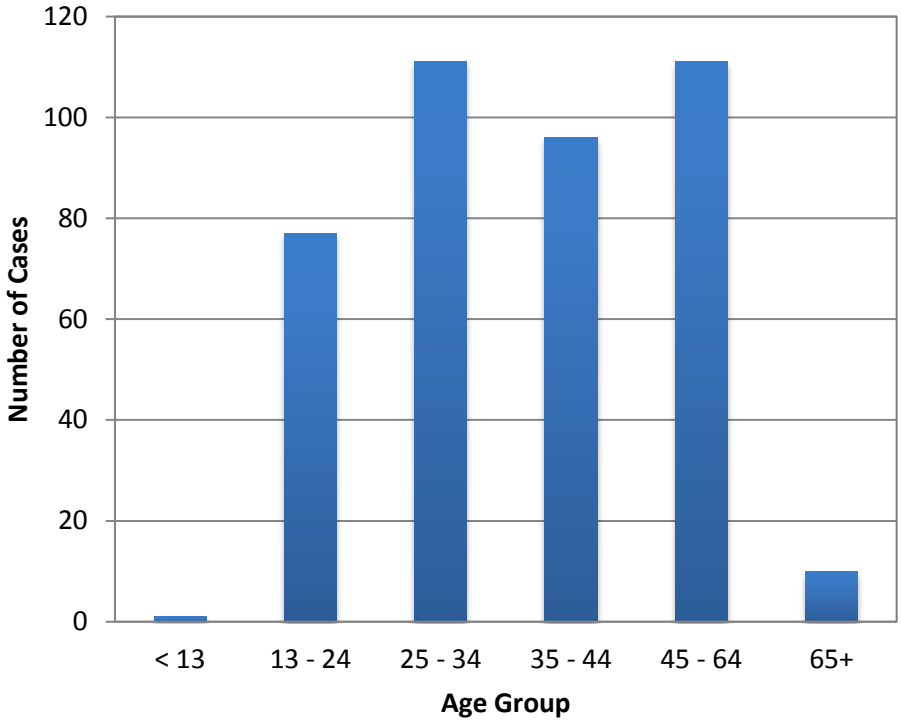
Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)

Notes: Data reflects HIV and/or AIDS case numbers reported to the DHHR, BPH as of December 31, 2016. No adjustments were made for reporting delays. Numbers include persons diagnosed with HIV infection (not AIDS) or HIV infection and later AIDS or and concurrent diagnoses of HIV infection and AIDS. Only cases with West Virginia residence at diagnosis are reported. All data excludes individuals who currently reside in federal prison.

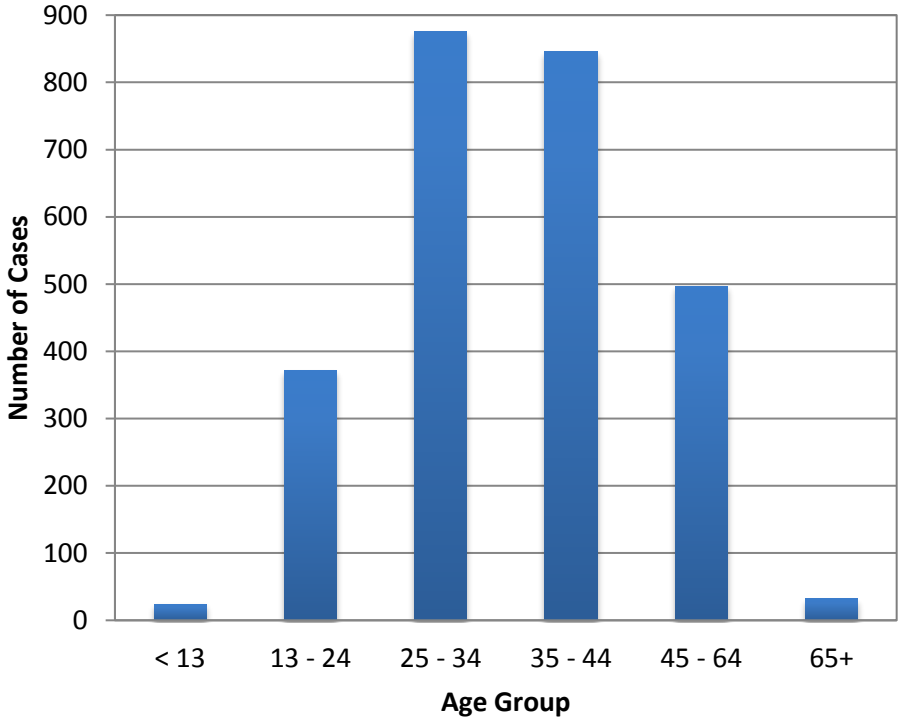
*Cumulative number of HIV/AIDS cases includes two cases with unknown diagnosis year.

†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified. Required HIV reporting began January 1989.

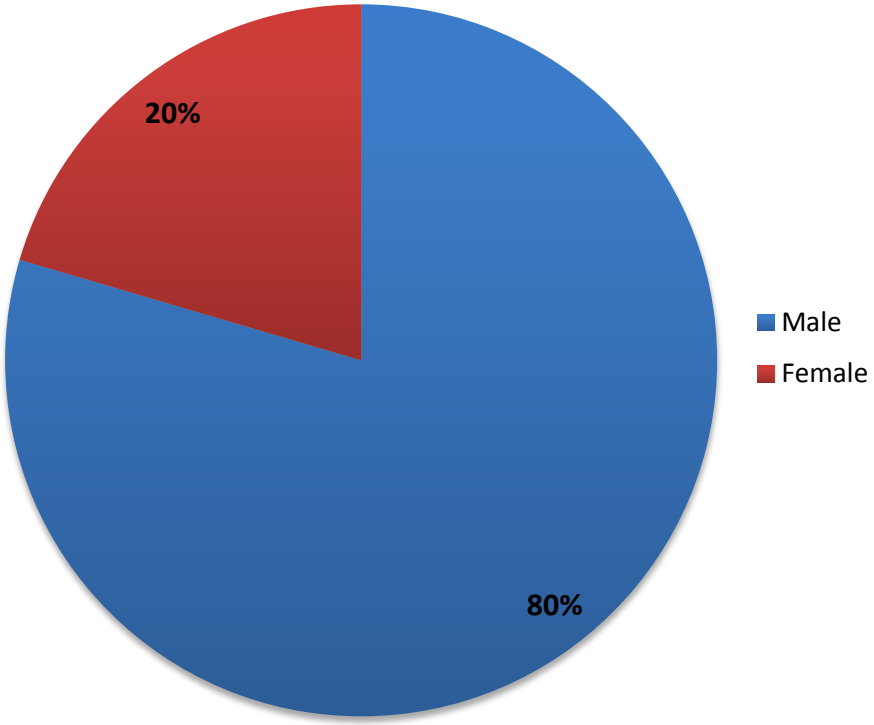
Number of HIV/AIDS Cases by Age Group at Diagnosis in West Virginia from 2012-2016



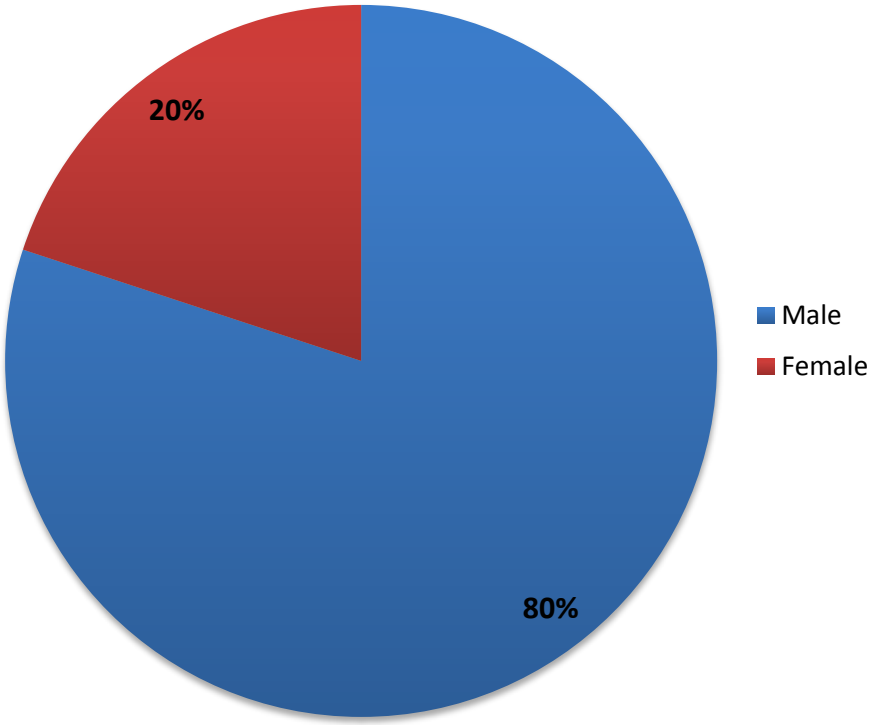
Number of HIV/AIDS Cases by Age Group at Diagnosis in West Virginia from 1984-2011



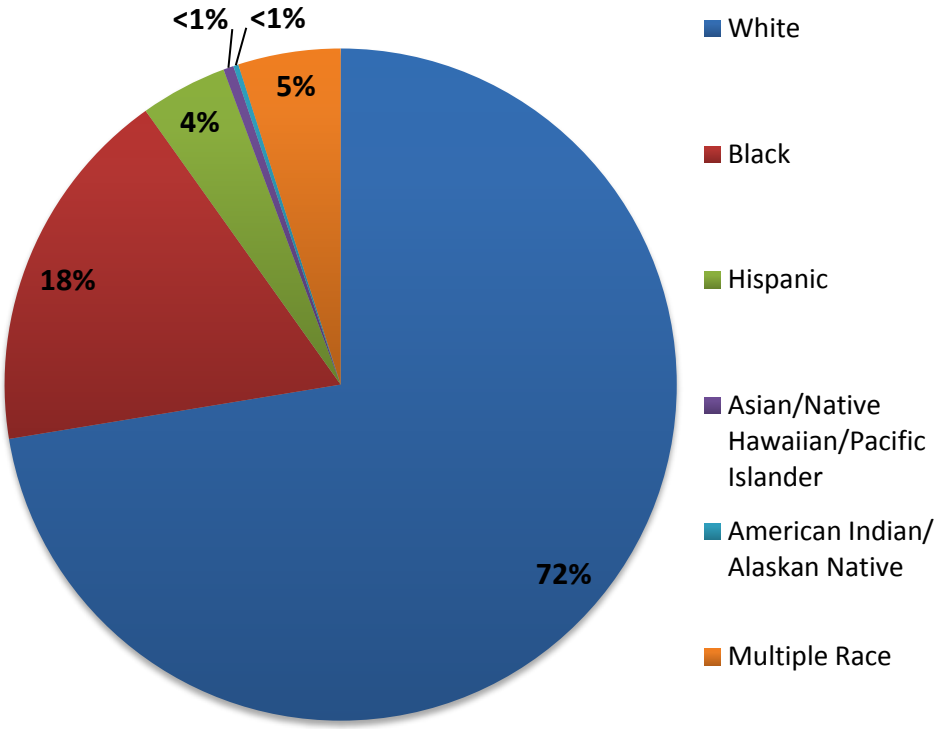
Percentage of HIV/AIDS Cases by Gender in West Virginia from 2012-2016



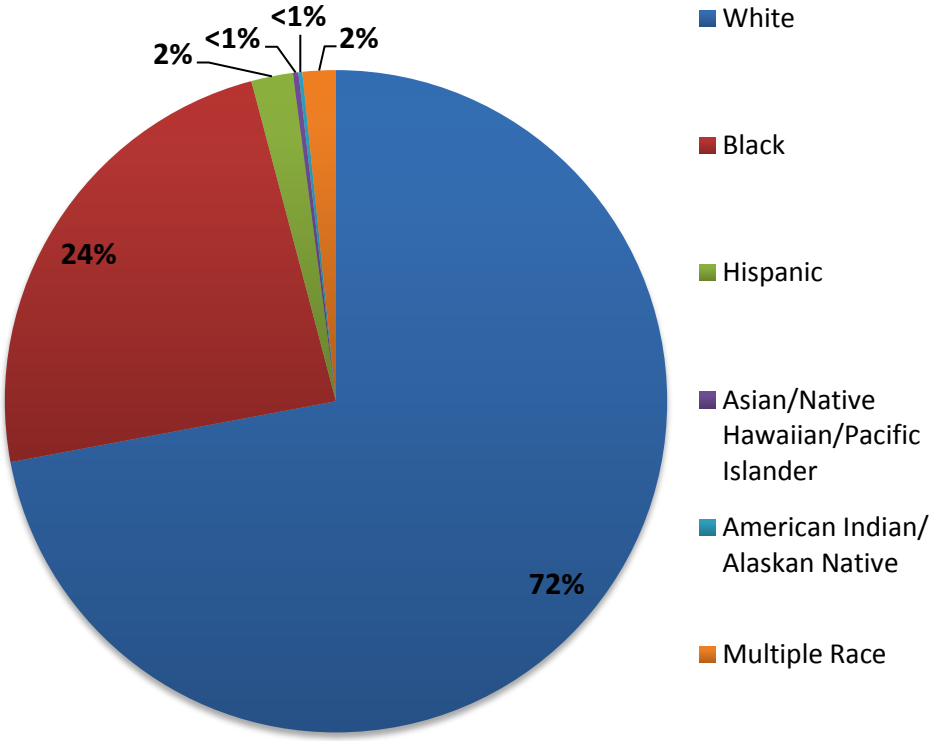
Percentage of HIV/AIDS Cases by Gender in West Virginia from 1984-2011



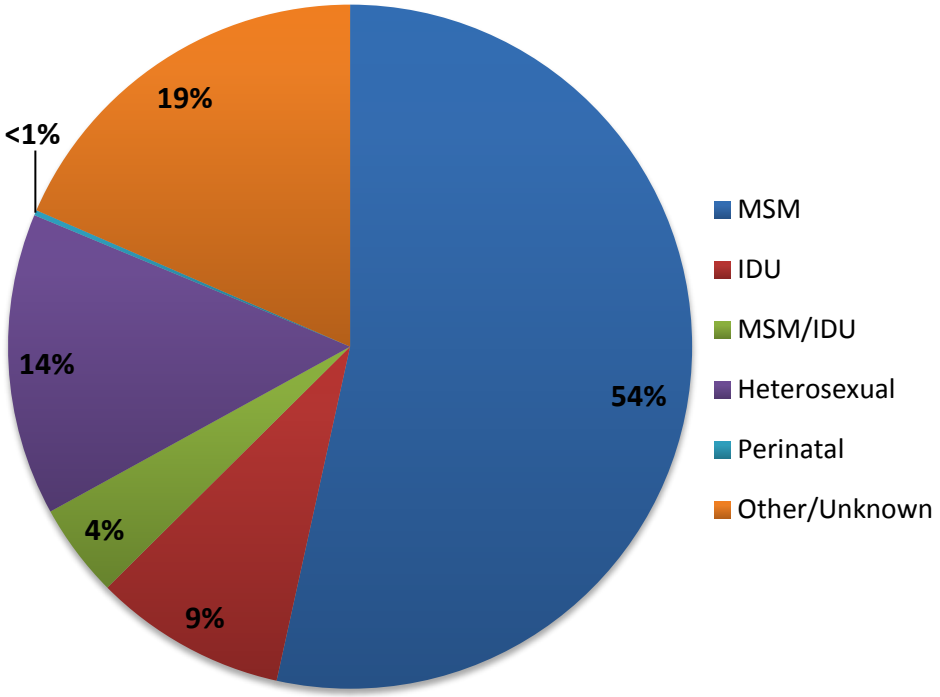
Percentage of HIV/AIDS Cases by Race in West Virginia from 2012-2016



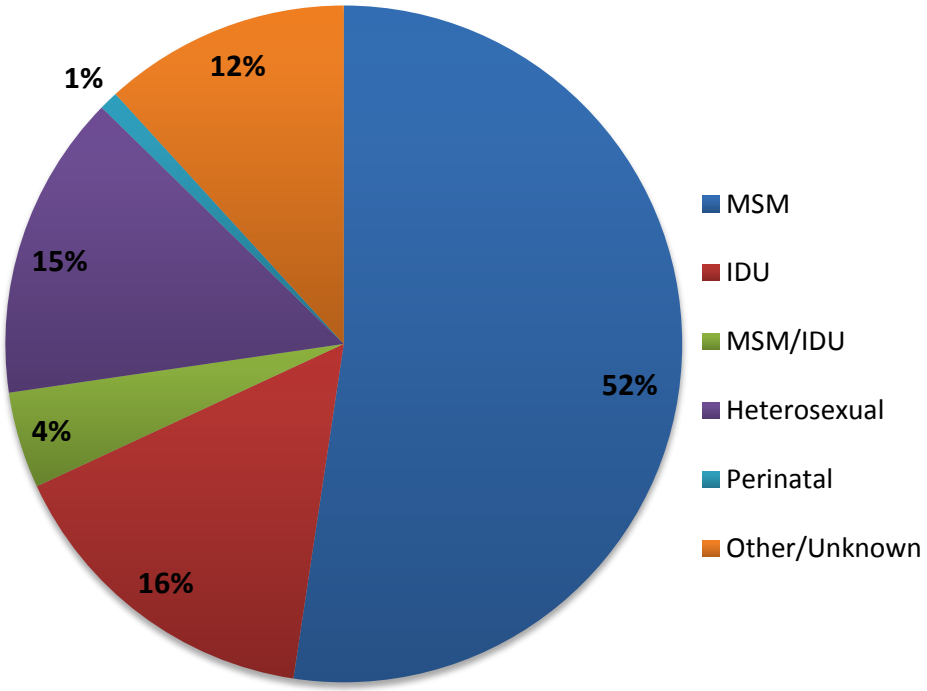
Percentage of HIV/AIDS Cases by Race in West Virginia from 1984-2011



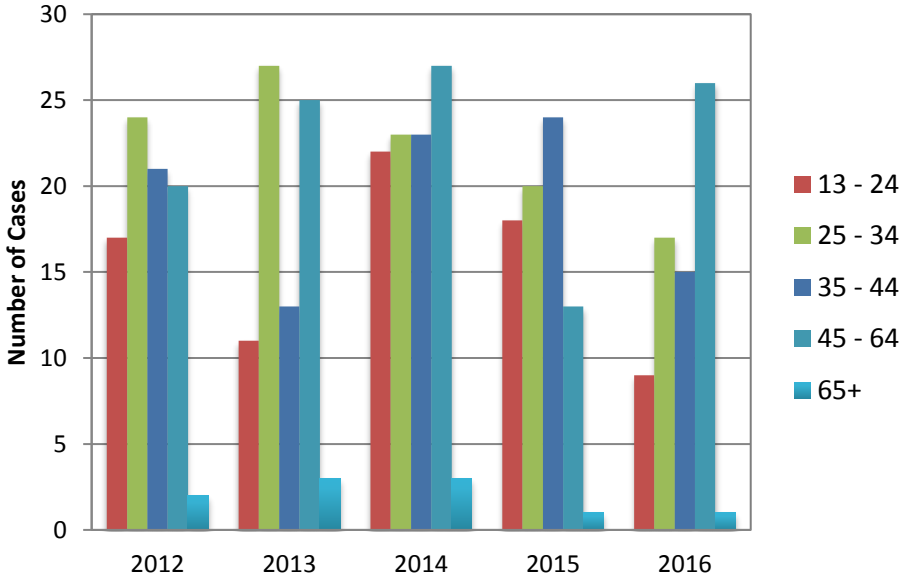
Percentage of HIV/AIDS Cases by Exposure Category in West Virginia from 2012-2016



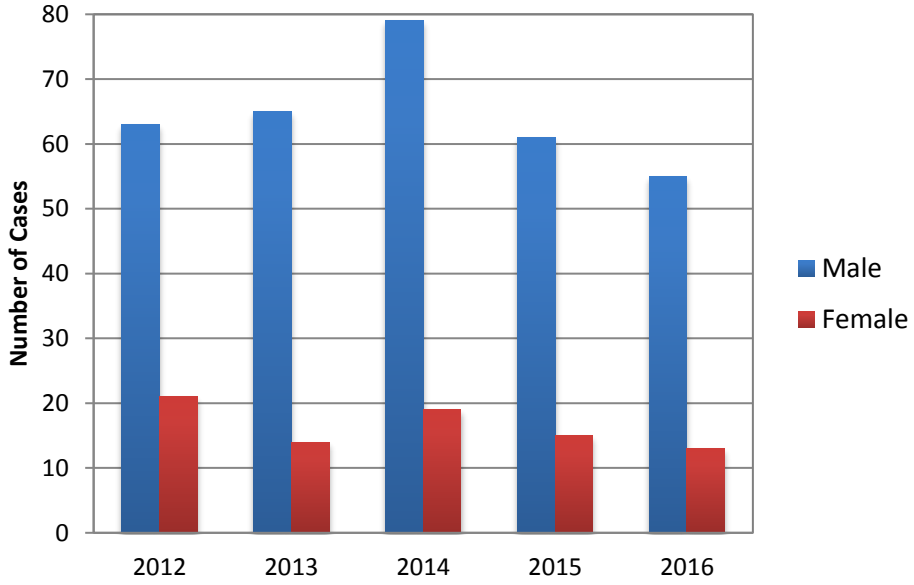
Percentage of HIV/AIDS Cases by Exposure Category in West Virginia from 1984-2011



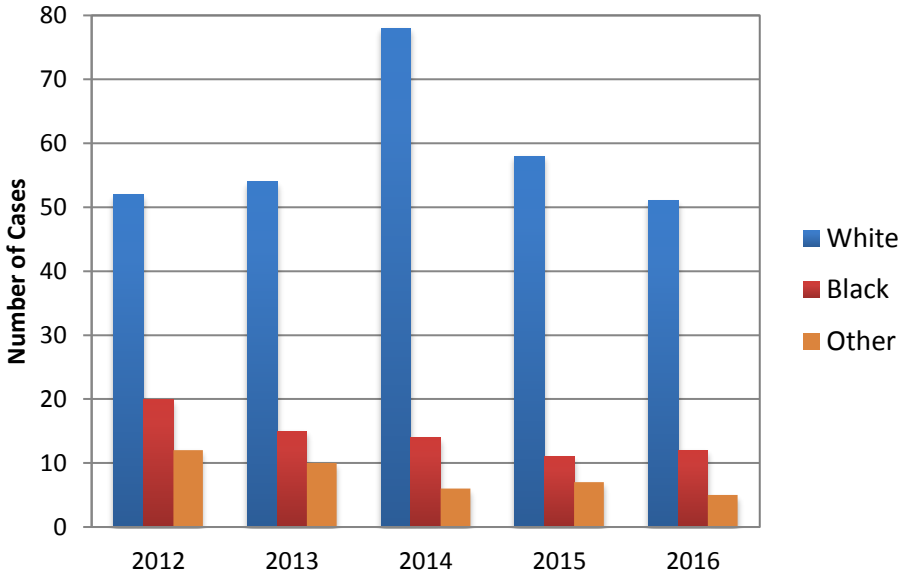
Number of Adult and Adolescent HIV/AIDS Cases Diagnosed by Age Group in West Virginia, 2012-2016



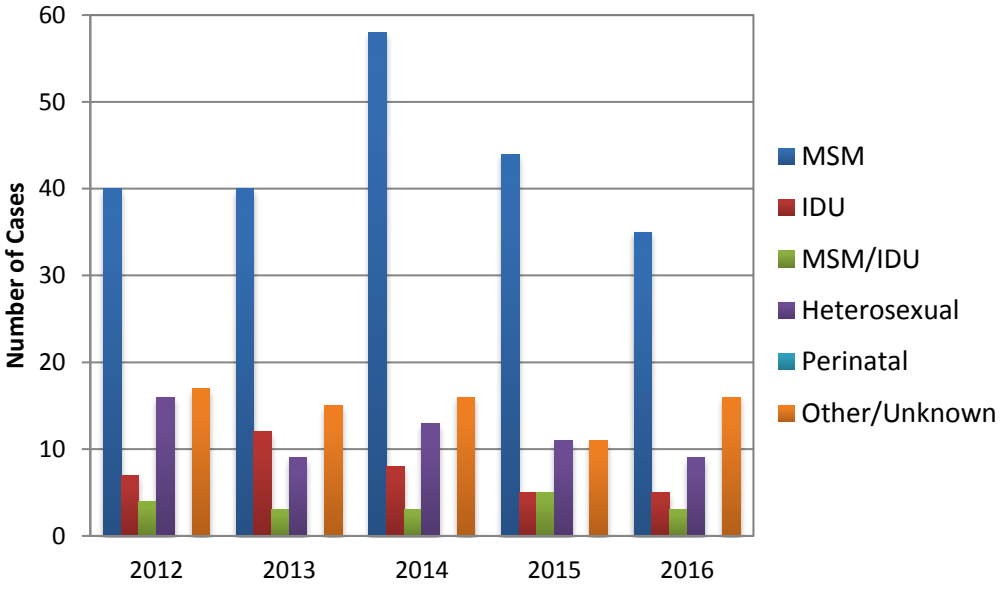
Number of Adult and Adolescent HIV/AIDS Cases Diagnosed by Gender in West Virginia, 2012-2016



Number of Adult and Adolescent HIV/AIDS Cases Diagnosed by Race in West Virginia, 2012-2016



Number of Adult and Adolescent HIV/AIDS Cases Diagnosed by Exposure Category in West Virginia, 2012-2016



DEATHS

Deaths Among Persons with HIV/AIDS by Year of Death and Select Characteristics in West Virginia from 4/1984-12/2016							
Characteristic	**Cumulative deaths through 2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**Cumulative deaths through 2016**
Age at Death							
<13	6	<5	<5	<5	<5	<5	**6**
13-24	28	<5	<5	<5	<5	<5	**32**
25-34	258	<5	<5	<5	<5	<5	**270**
35-44	414	<5	<5	6	8	<5	**439**
45-64	344	22	24	24	25	20	**459**
65+	38	5	<5	<5	7	<5	**57**
Gender							
Male	917	24	28	27	34	27	**1,057**
Female	171	12	<5	8	6	5	**206**
Race/Ethnicity							
White	830	20	23	30	27	25	**955**
Black	236	13	7	<5	11	6	**276**
Hispanic	11	<5	<5	<5	<5	<5	**16**
Asian, Native Hawaiian or Pacific Islander	<5	<5	<5	<5	<5	<5	<5
American Indian or Alaskan Native	<5	<5	<5	<5	<5	<5	<5
Multiple Race	9	<5	<5	<5	<5	<5	**14**
Exposure Category							
Male-to-male sex (MSM)	556	9	18	18	15	15	**631**
Injection drug use (IDU)	187	11	<5	7	13	<5	**225**
MSM/IDU	63	<5	<5	<5	<5	<5	**71**
Heterosexual contact	114	8	<5	<5	6	5	**138**
Perinatal	5	<5	<5	<5	<5	<5	**6**
Other†/Unknown	163	7	7	5	5	5	**192**
Total	**1,088**	**36**	**32**	**35**	**40**	**32**	**1,263**

Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)

Notes: Data reflects the number of deaths among cases of HIV/AIDS reported to the DHHR, BPH as of December 31, 2016. No adjustments were made for reporting delays. Numbers include persons diagnosed with HIV infection (not AIDS), HIV infection and later AIDS, and concurrent diagnoses of HIV infection and AIDS. Only cases with West Virginia residence at diagnosis are reported. All data excludes individuals who currently reside in federal prison.

†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified.

AIDS

Number of AIDS Cases by Select Characteristics in West Virginia from 4/1984-12/2016							
Characteristic	**Cumulative through 2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**Cumulative through 2016***
Age at Diagnosis							
<13	11	<5	<5	<5	<5	<5	**11**
13-24	112	6	<5	6	<5	<5	**129**
25-34	525	14	16	9	8	9	**581**
35-44	658	13	10	8	11	7	**707**
45-64	409	18	19	21	9	21	**497**
65+	29	<5	<5	<5	<5	<5	**37**
Gender							
Male	1,454	45	44	38	23	29	**1,634**
Female	290	8	6	9	7	9	**329**
Race/Ethnicity							
White	1,342	34	34	36	20	30	**1,497**
Black	341	11	7	8	6	6	**379**
Hispanic	31	<5	<5	<5	<5	<5	**39**
Asian, Native Hawaiian or Pacific Islander	<5	<5	<5	<5	<5	<5	**<5**
American Indian or Alaskan Native	<5	<5	<5	<5	<5	<5	**<5**
Multiple Race	25	5	6	<5	<5	<5	**42**
Exposure Category							
Male-to-male sex (MSM)	953	28	29	25	12	15	**1,062**
Injection drug use (IDU)	265	<5	<5	5	<5	4	**284**
MSM/IDU	94	<5	<5	<5	<5	<5	**100**
Heterosexual contact	224	10	6	10	9	6	**265**
Perinatal	12	<5	<5	<5	<5	<5	**12**
Other†/Unknown	196	10	9	6	5	13	**240**
Total	**1,744**	**53**	**50**	**47**	**30**	**38**	**1,963**

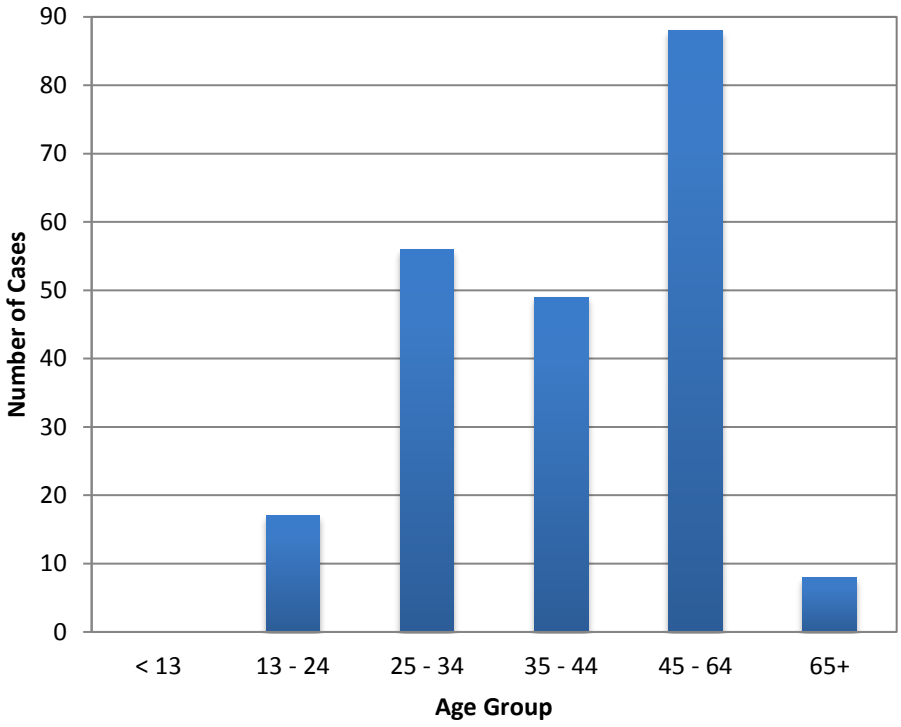
Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)

Notes: Data reflects case numbers of AIDS reported to the DHHR, BPH as of December 31, 2016. No adjustments were made for reporting delays. Only cases with West Virginia residence at diagnosis are reported. All data excludes individuals who currently reside in federal prison.

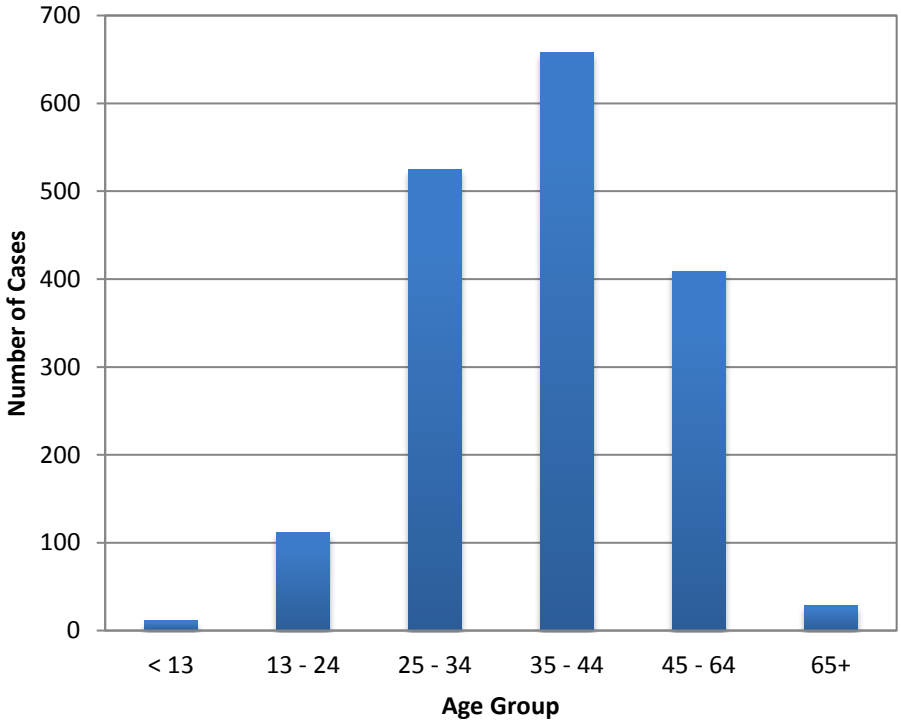
*Cumulative number of AIDS cases includes one case with unknown age at diagnosis.

†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified.

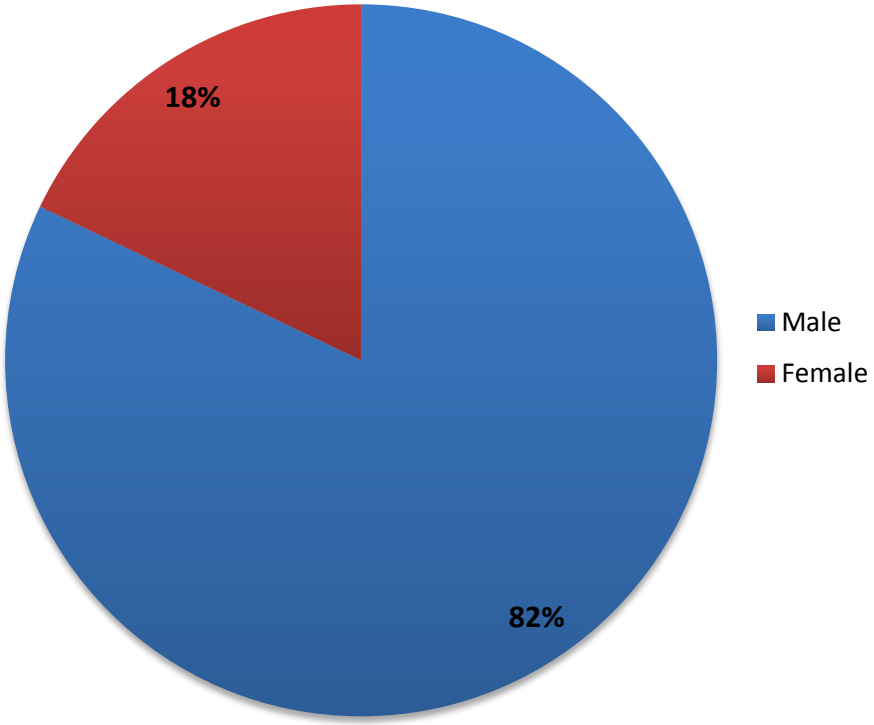
Number of AIDS Cases by Age Group at Diagnosis in West Virginia from 2012-2016



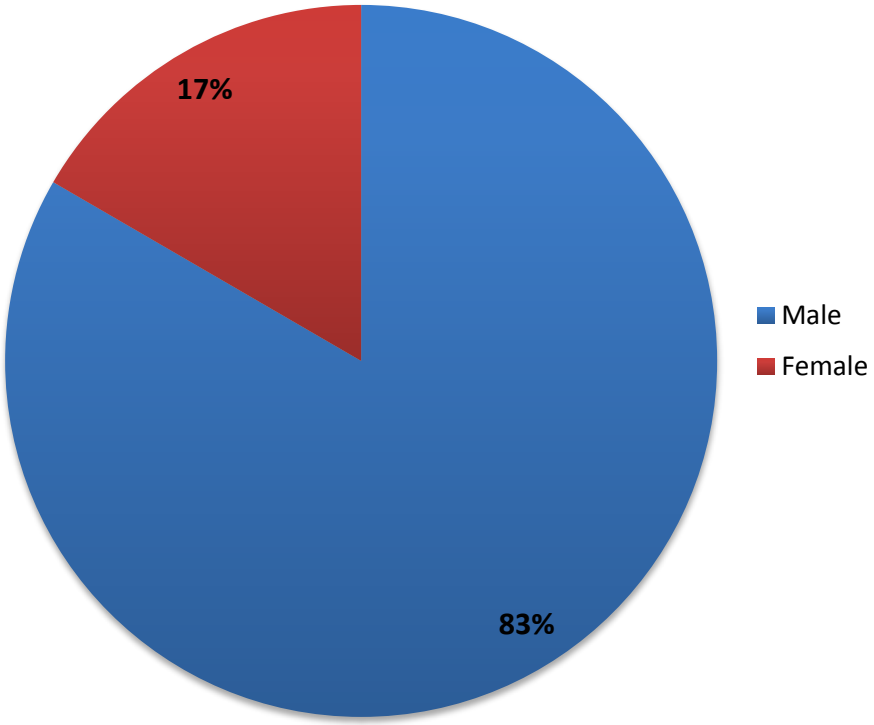
Number of AIDS Cases by Age Group at Diagnosis in West Virginia from 1984-2011



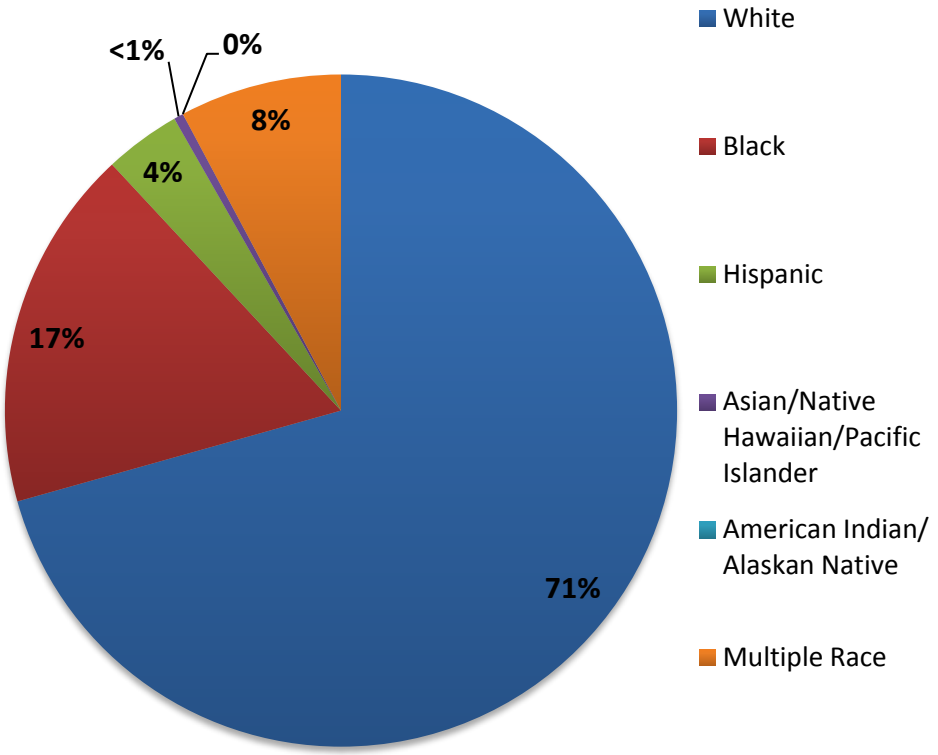
Percentage of AIDS Cases by Gender in West Virginia from 2012-2016



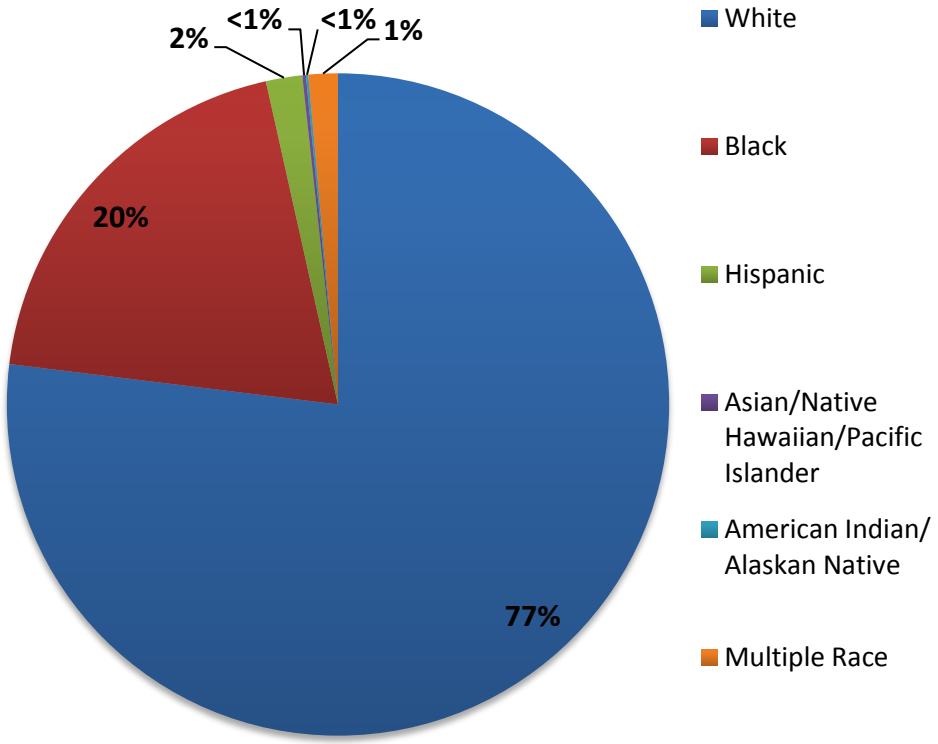
Percentage of AIDS Cases by Gender in West Virginia from 1984-2011



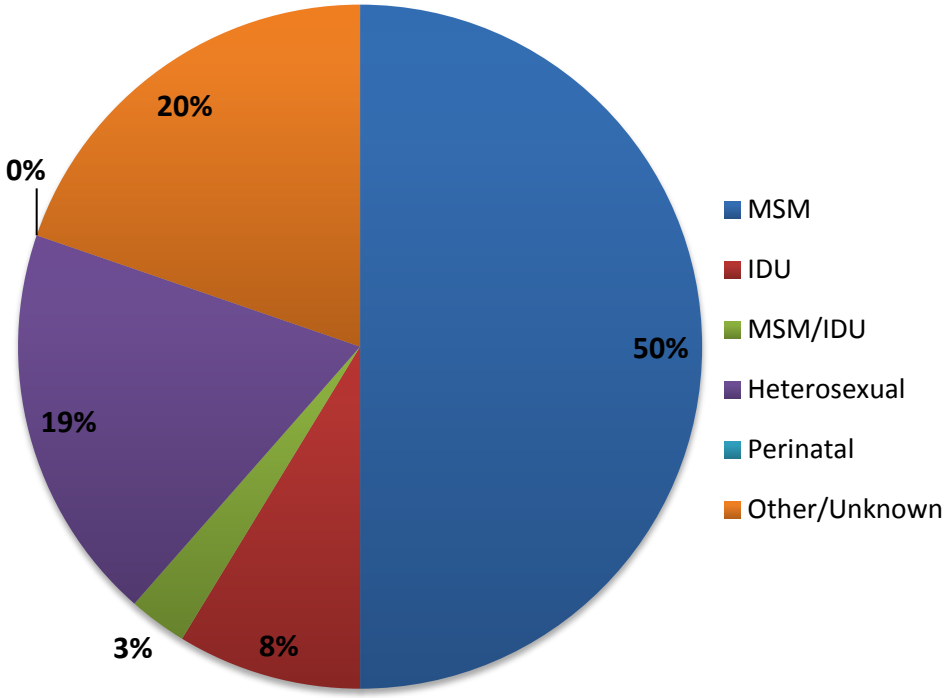
Percentage of AIDS Cases by Race in West Virginia from 2012-2016



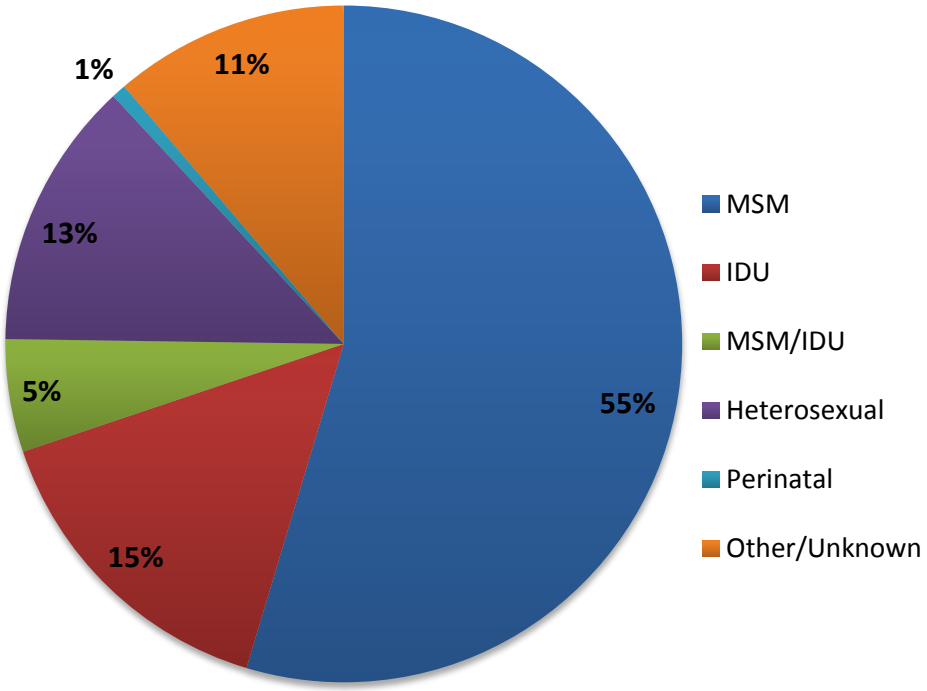
Percentage of AIDS Cases by Race in West Virginia from 1984-2011



Percentage of AIDS Cases by Exposure Category in West Virginia from 2012-2016



Percentage of AIDS Cases by Exposure Category in West Virginia from 1984-2011

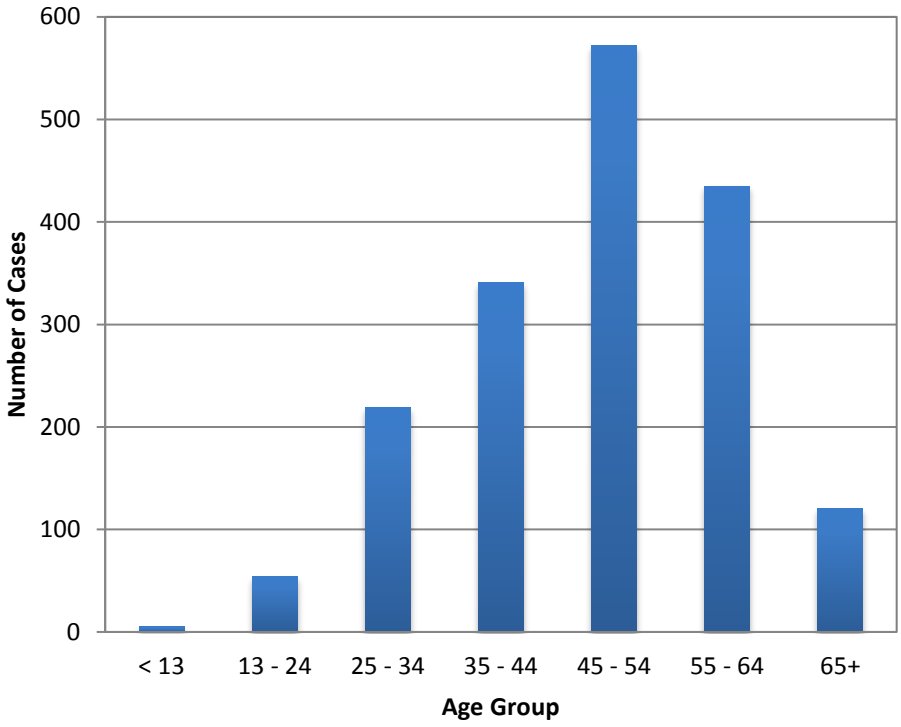


People Living with HIV/AIDS (PLWHA) in West Virginia

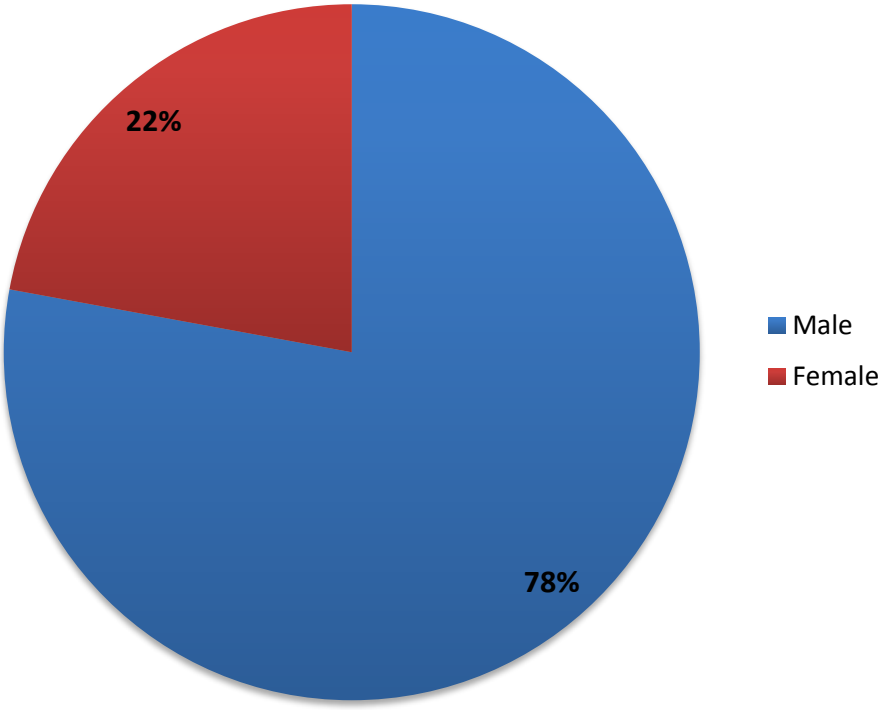
Number and Percentage of People Living with HIV/AIDS in West Virginia as of December 31, 2016		
Characteristic	**No.**	**%**
Current Age		
<13	5	0.3
13-24	54	3.1
25-34	219	12.5
35-44	341	19.5
45-54	572	32.8
55-64	435	24.9
65+	120	6.9
Gender		
Male	1,360	77.9
Female	386	22.1
Race/Ethnicity		
White	1,267	72.6
Black	349	20.0
Hispanic	58	3.3
Asian, Native Hawaiian/Pacific Islander	8	0.5
American Indian/Alaskan Native	<5	0.2
Multiple Race	61	3.5
Exposure Category		
Male-to-male sex (MSM)	929	53.2
Injection drug use (IDU)	211	12.1
MSM/IDU	87	5.0
Heterosexual contact	306	17.5
Perinatal	20	1.1
Other†/Unknown	193	11.1
Total People Living with HIV/AIDS	**1,746**	**100**

Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)
Notes: Estimated number of People Living with HIV/AIDS (PLWHA) as of December 31, 2016. No adjustments were made for reporting delays. Numbers include persons who have been diagnosed with HIV infection (not AIDS) or HIV infection and a later AIDS diagnosis or a concurrent diagnosis of HIV infection and AIDS. PLWHA include persons who currently reside in West Virginia and may have been diagnosed in another state. All data excludes individuals who currently reside in federal prison.
†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified.

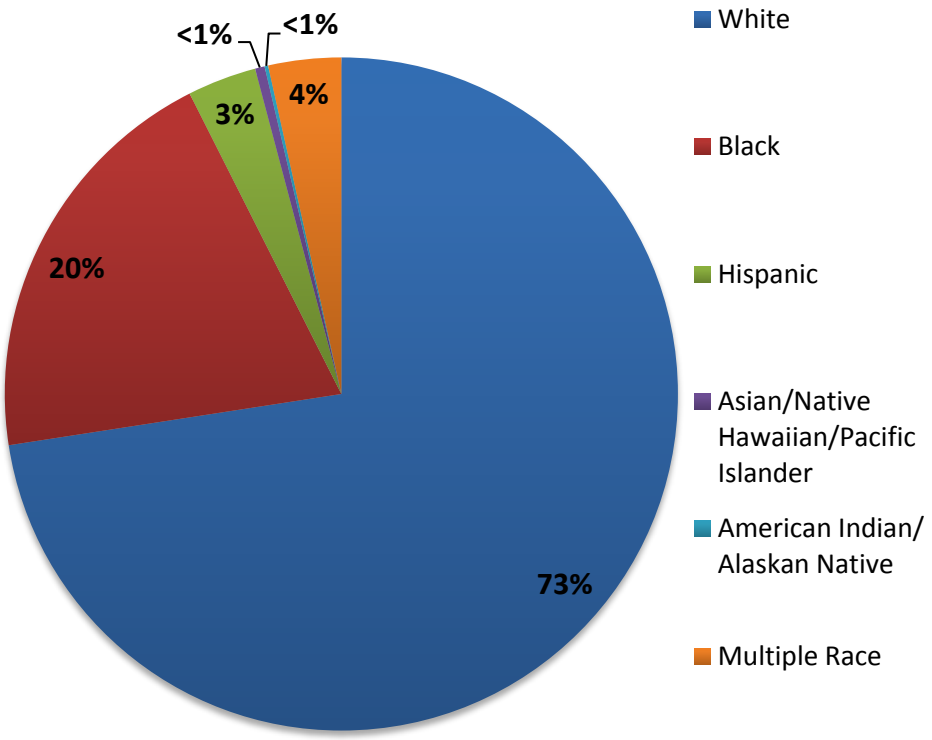
Number of People Living with HIV/AIDS by Current Age Group in West Virginia as of 2016



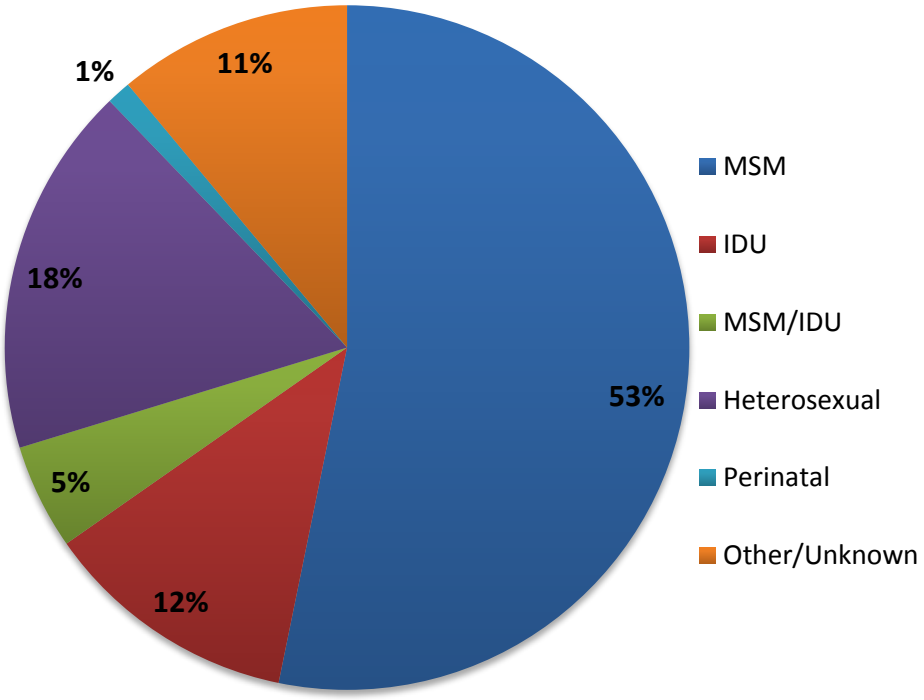
Percentage of People Living with HIV/AIDS by Gender in West Virginia as of 2016



Percentage of People Living with HIV/AIDS by Race in West Virginia as of 2016

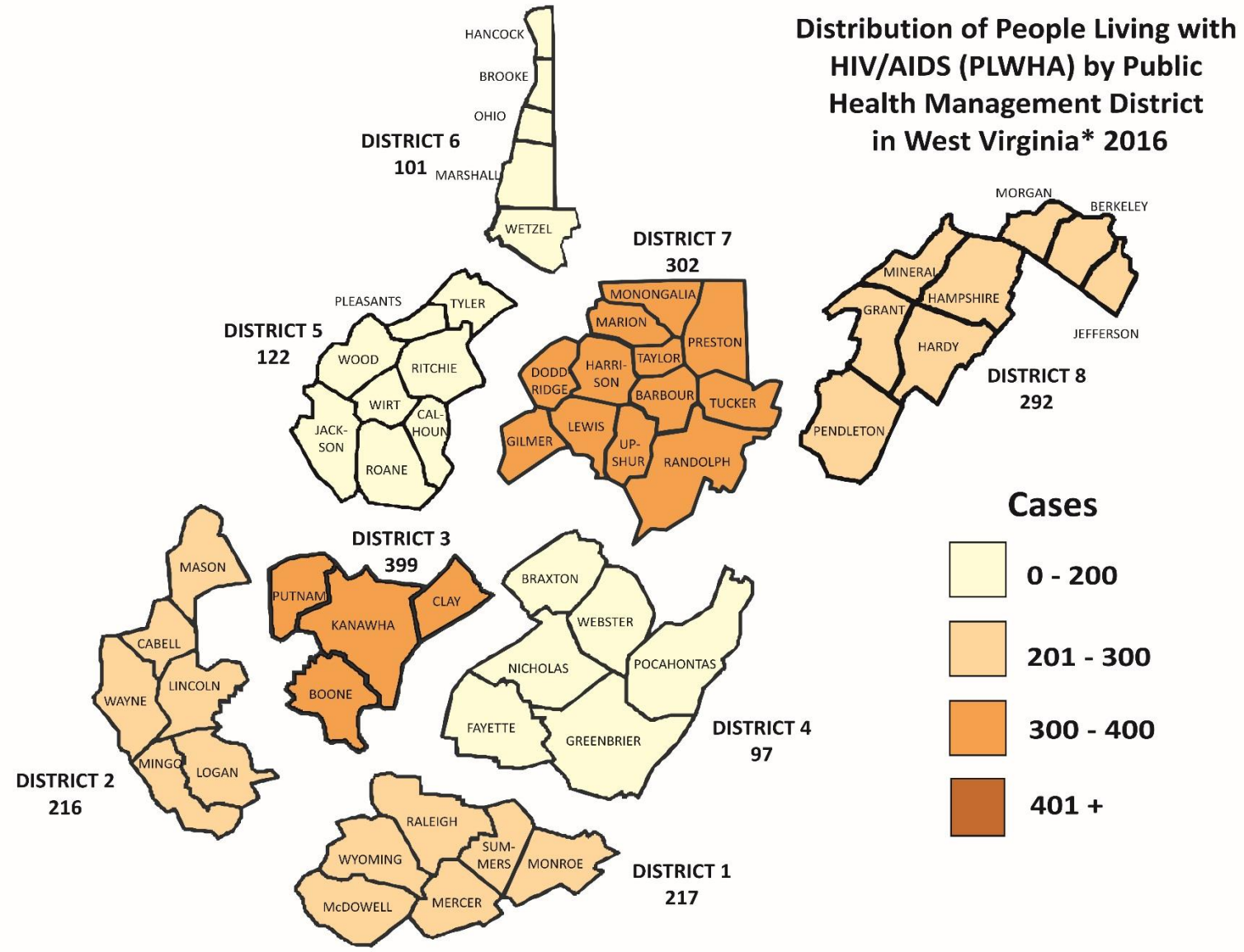


Percentage of People Living with HIV/AIDS by Exposure Category in West Virginia as of 2016



Geographic Distribution of HIV/AIDS in West Virginia

West Virginia counties are grouped into eight Public Health Management Districts. The following section provides information about the distribution of HIV and AIDS in West Virginia by Public Health Management District.



Data Source: West Virginia Department of Health and Human Resources Bureau of Public Health, Office of Epidemiology and Prevention Services, Division of STD, HIV, and Hepatitis, Enhanced HIV/AIDS Reporting System

Total PLWHA in West Virginia: 1,746
*Excludes federal prisoners.

Number of Persons Living with HIV/AIDS (PLWHA) by Public Health District in West Virginia as of December 31, 2016									
Characteristic	**West Virginia Public Health District**								
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**Total**
Current Age									
<13	<5	<5	<5	<5	<5	<5	<5	<5	**5**
13-24	11	7	10	6	<5	<5	9	5	**54**
25-34	34	32	45	12	9	11	43	33	**219**
35-44	47	51	80	19	24	16	66	38	**341**
45-54	61	65	148	30	48	30	100	90	**572**
55-64	52	46	93	25	32	33	67	87	**435**
65+	12	15	20	5	6	7	17	38	**120**
Gender									
Male	154	165	318	70	105	78	251	219	**1,360**
Female	63	51	81	27	17	23	51	73	**386**
Race/Ethnicity									
White	145	182	283	70	104	83	236	164	**1,267**
Black	59	22	83	19	13	12	35	106	**349**
Hispanic	<5	<5	11	<5	5	<5	20	10	**58**
Asian, Native Hawaiian or Pacific Islander	<5	<5	<5	<5	<5	<5	<5	<5	**8**
American Indian or Alaskan Native	<5	<5	<5	<5	<5	<5	<5	<5	**<5**
Multiple Race	10	7	19	5	<5	<5	8	9	**61**
Exposure Category									
Male-to-male sex (MSM)	99	115	244	48	73	53	171	126	**929**
Injection drug use (IDU)	41	20	30	16	11	12	28	53	**211**
MSM/IDU	14	10	13	5	6	6	19	14	**87**
Heterosexual contact	38	45	61	19	17	21	44	61	**306**
Perinatal	<5	<5	<5	<5	<5	<5	5	<5	**20**
Other†/Unknown	21	26	48	7	13	9	35	34	**193**
Total	**217**	**216**	**399**	**97**	**122**	**101**	**302**	**292**	**1,746**

Data Source: West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), Enhanced HIV/AIDS Reporting System (eHARS)
Notes: Estimated number of People Living with HIV/AIDS (PLWHA) as of December 31, 2016. No adjustments were made for reporting delays. Numbers include persons diagnosed with HIV infection (not AIDS) or HIV infection and later AIDS or concurrent diagnoses of HIV infection and AIDS. PLWHA include persons who currently reside in West Virginia and may have been diagnosed in another state. All data excludes individuals who currently reside in federal prison.
†"Other" risk category includes hemophilia, blood transfusion, and risk not reported or not identified.

DEFINITIONS

Age at diagnosis

Age at diagnosis is the age of the individual at the time he/she was diagnosed with HIV and/or AIDS.

AIDS

The total number of persons diagnosed with AIDS who were residing in West Virginia when they were diagnosed with AIDS. This category includes persons diagnosed with AIDS both living and deceased.

Cumulative deaths

Cumulative deaths are the total number of deaths counted from when West Virginia first reported AIDS (1984) and HIV (1989) through the end of the report year.

Deaths among persons living with HIV/AIDS

Deaths among persons living with HIV/AIDS may or may not have been due to HIV or AIDS. Deaths are counted for those persons whose current residence was West Virginia at the end of the report year; therefore, persons who have died out of state may not be reflected in this data.

eHARS

Enhanced HIV/AIDS Reporting System; a national document-based data management system for tracking surveillance of HIV/AIDS.

HIV/AIDS surveillance

HIV/AIDS surveillance is the systematic collection, analysis, interpretation, evaluation, and dissemination of population-based information about persons with a diagnosis of HIV infection and persons with a diagnosis of AIDS.

HIV-Not AIDS

HIV-Not AIDS includes persons diagnosed with HIV infection in West Virginia (both living and deceased). The category HIV-Not AIDS is based on diagnoses of HIV infection and does not include every person who was infected with HIV. Furthermore, a recent diagnosis may not reflect a new infection; an individual may be diagnosed with HIV many years after he/she was first infected. HIV-Not AIDS includes some people who may have been diagnosed with AIDS in another state. Many people do not get tested for HIV and cannot be included in surveillance statistics.

No Identified Risk/No Risk Reported (NIR/NRR)

Persons who have no risk information reported by the provider or no risk factor was identified during an expanded investigation.

Persons living with HIV/AIDS (PLWHA)

This category includes the total number of persons currently living with HIV and/or AIDS in West Virginia, based on the most current address in eHARS. These persons may or may not have been diagnosed with HIV or AIDS in West Virginia.

Race/Ethnicity

The collection of race/ethnicity data in HIV/AIDS surveillance follows CDC guidelines.

> **Ethnicity:** There are two ethnicity categories: Hispanic/Latino and not Hispanic/Latino. All persons who identified as Hispanic/Latino are classified as Hispanic/Latino regardless of their racial identification.
>
> **Race:** There are four race categories: White, Black/African American, Asian/Native Hawaiian/Pacific Islander (API), and American Indian/Alaskan Native (AI/AN). The categories Asian, Native Hawaiian, and Pacific Islander were combined into the single category API due to their small population size in West Virginia.

Risk

The risk is the behavior associated with HIV transmission. A single person may have multiple exposures, so a hierarchy is used to select the risk factor that was most likely to cause HIV transmission. However, male-to-male sexual contact and injection drug use are equally likely to cause transmission, so males who report both of these behaviors are classified into a combined category. The primary transmission categories that have been identified are:

> **Heterosexual contact:** Includes persons who had heterosexual contact with an HIV-infected person, an injection drug user, or a person who has received blood products. For females only, history of heterosexual sex with a bisexual male constitutes a transmission category of heterosexual contact.
>
> **Injection drug use (IDU):** Includes persons who took non-prescribed drugs by injection, intravenously, intramuscularly or subcutaneously.
>
> **Male-to-male sexual contact (MSM):** Includes males with reported sexual contact with another male.
>
> **Male-to-male sexual contact and injection drug use (MSM/IDU):** Includes males who reported both male-to-male sexual contact and injection drug use.
>
> **Perinatal transmission:** Includes infants who were infected during gestation, birth, or postpartum through breastfeeding to an HIV-infected mother.
>
> **Transfusion/Hemophilia:** Includes hemophilia and receipt of transfusions or transplants.

ABBREVIATIONS

AIDS Acquired Immunodeficiency Syndrome

CDC Centers for Disease Control and Prevention

eHARS Enhanced HIV/AIDS Reporting System

HIV Human Immunodeficiency Virus

IDU Injection Drug Use or Injection Drug User

MSM Male-to-Male Sexual Contact or Men who have Sex with Men

MSM/IDU Men who have Sex with Men and Injection Drug Use

NIR No Identified Risk

NRR No Risk Reported