



# WASHINGTON STATE HIV SURVEILLANCE REPORT 2017 EDITION

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Figure 1. Living HIV Cases and Prevalence Rates by County, 2016

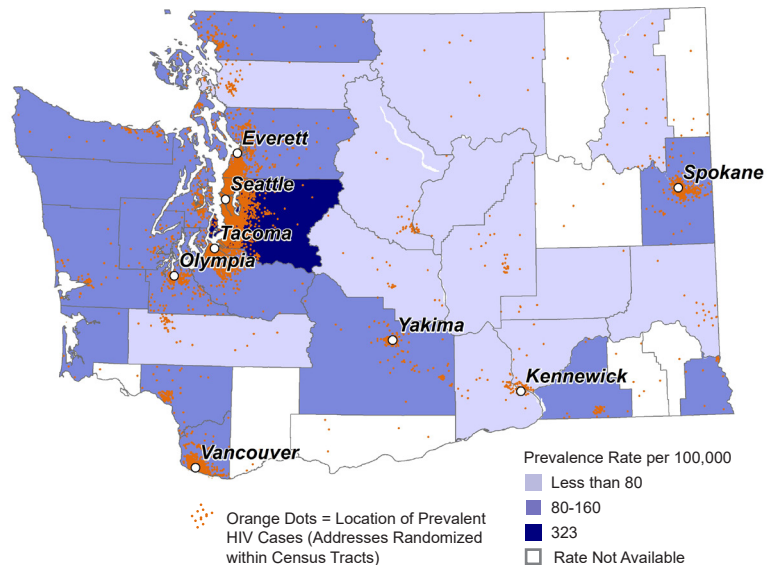
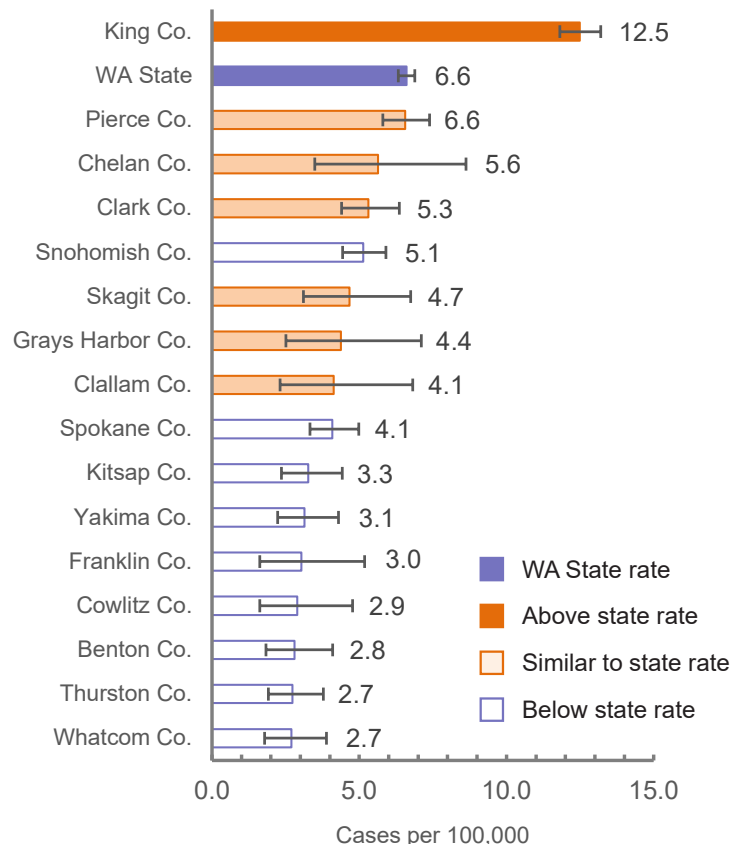


Figure 2. Average New HIV Case Rates by County of Residence, 2012-2016



## HIV IN WASHINGTON: AN OVERVIEW

- In Washington, the first case of HIV infection was diagnosed in 1981.
- The number of new HIV cases in Washington (n=440 in 2016) has decreased in recent years.
- By the end of 2016, nearly 14,000 people were estimated to be living with HIV across Washington State, of who approximately 90% have been diagnosed.
- Roughly three out of four living cases of HIV infection in Washington appear to be receiving optimal HIV medical care.

GET INSURED

GET TESTED

GET PREP

GET TREATMENT

**END AIDS**  
WASHINGTON  
endaidswashington.org

End AIDS Washington is a collaboration of community-based organizations, government agencies, and educational and research institutions working together to reduce new infections in Washington by 50% over the next five years.

## ACKNOWLEDGEMENTS AND CONTACT INFORMATION

Our thanks to the health providers who care for people with HIV/AIDS, to our local health jurisdiction partners, and to the medical laboratories - all of whom work diligently to ensure the timely and complete reporting of cases. These data are used to support the allocation of HIV prevention and care resources, to conduct program planning and evaluation, and to educate the public about the HIV epidemic in Washington.

For more information, or to receive a printed copy of this report, please contact:

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Infectious Disease Assessment Unit  
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## ABOUT THIS PUBLICATION

This surveillance report reflects events occurring through December 31, 2016 and reported by June 30, 2017, unless otherwise stated. Reports are published annually.

## HIV REPORTING REQUIREMENTS

Detailed requirements for the reporting of communicable diseases including HIV/AIDS are described in the Washington Administrative Code (WAC), section 246-101 (<http://apps.leg.wa.gov/WAC/default.aspx?cite=246-101>).

Washington health care providers are required to report all HIV infections, regardless of the date of the patient's initial diagnosis, to the health department. Providers are also required to report new diagnoses of AIDS in a person previously diagnosed with HIV infection. Local health department officials forward case reports to the state department of health. Names are never sent to the federal government.

Laboratories are required to report any evidence of HIV infection (i.e., positive western blot assays, p24 antigen detection, viral culture, and nucleic acid detection), all HIV viral load tests (detectable or not), and all CD4 counts in the setting of HIV infection. If the laboratory cannot distinguish tests, such as CD4 counts, done due to HIV versus other diseases (such as cancer), the CD4 counts should be reported and the health department will investigate. However, laboratory reporting does not relieve health care providers of their duty to report, as most of the critical information necessary for surveillance and follow-up is not available to laboratories.

For further information about HIV/AIDS reporting requirements, please call your local health department or the Washington State Department of Health at 888-367-5555. In King County, call 206-263-2000.

## SUGGESTED CITATION

Infectious Disease Assessment Unit, Washington State Department of Health. Washington State HIV Surveillance Report, 2017 Edition.

## ALTERNATIVE FORMATS

Electronic copies of this report are available at: <https://www.doh.wa.gov/DataandStatisticalReports/DiseasesandChronicConditions/HIVAIDSData/SurveillanceReports>

## EDITORIAL NOTES

The 2017 edition of our statewide HIV surveillance report has been substantially revised compared to previous editions. More attention has been given to the HIV continuum of care, and to describing how key performance measures have changed over time in recent years. In addition, from 2017 forward, this report will be produced annually rather than semi-annually.

## DEFINITIONS

**AIDS:** Acquired Immune Deficiency Syndrome. An advanced stage of HIV disease which is defined by the existence of certain opportunistic illnesses or other clinical outcomes. The presence of AIDS often suggests that a person has been HIV-positive for many years.

**Age-Adjusted Death Rate:** The age-adjusted rate of HIV deaths per 100,000 residents. Age-adjustment is a statistical process which allows rates from different communities to be compared in way that controls for differences between each population's age structure. This can also be called an age-adjusted mortality rate.

**Blood Exposure:** A mode of HIV exposure which involves the transfusion of human blood (or blood products) or the transplantation of human tissue.

**Case:** A person with HIV infection who has been diagnosed and reported to the health department while living in Washington. This report does not describe the results of anonymous HIV testing.

**Case Fatality Rate:** The rate of HIV deaths per 1,000 living HIV cases, usually within a calendar year.

**Case Rate:** The number of reported HIV cases (either new or living) divided by the estimated number of persons residing in a given area and presumed to be at risk for disease. In this report, rates are described as cases per 100,000 persons. Rates with a relative standard error equal to 30% or greater have been suppressed.

**CD4 Count:** The concentration of a certain type of white blood cell circulating within a person's bloodstream. CD4 count (cells/ $\mu$ L) provides a good indication of a patient's stage of HIV disease.

**Cisgender:** Refers to a person whose gender identity is the same as the sex which was assigned to them at birth.

**Confidence Interval (CI):** A range of values within which the true value is likely to exist based on a specified probability. In this report, we use 95% confidence intervals to describe the reliability of case rates.

**Cumulative HIV Cases:** The total number of new HIV cases ever diagnosed and reported, as of a specified point in time. Cumulative cases include persons who are both living and deceased.

**Current Residence:** see **Living HIV Case**

**Foreign-born:** Persons born outside the United States. If information about country of birth is missing, a case is presumed to be U.S.-born.

**Heterosexual sex:** Sex between a man and a woman. When gender of sex partner is unknown, this is the presumed mode of HIV exposure among sexually active women.

**HIV:** Human Immunodeficiency Virus. The virus that causes HIV disease, including AIDS. HIV weakens a person's immune system by destroying T cells that fight disease and prevent infection.

**HIV Care Continuum:** A model that outlines the sequential stages of HIV medical care experienced by persons living with HIV, from diagnosis to virologic suppression. Also referred to as the HIV treatment cascade.

**HIV Deaths:** Deaths among among resident, diagnosed cases of HIV infection.

**HIV Diagnosis Date:** The earliest documented date when a person was diagnosed with HIV infection, with or without AIDS.

**HIV Incidence:** A measure of disease frequency describing the number of people newly infected with HIV within a specified time period, often a calendar year. Since not all new HIV infections are diagnosed or reported, we can only estimate HIV incidence. New HIV cases are often used as a proxy measure of HIV incidence.

**HIV Prevalence:** A measure of disease frequency describing the number of persons living with HIV infection within a specified time period. Since not all persons living with HIV have been diagnosed or reported, we can only estimate HIV prevalence. Living HIV cases are often used as a proxy measure of HIV prevalence (i.e. reported prevalence).

**HIV Surveillance:** The ongoing and systematic collection, evaluation, and dissemination of population-based information about people diagnosed and living with HIV infection and AIDS.

**DEFINITIONS (continued)**

**Injection Drug Use (IDU):** The behavior of using needles, syringes, and other drug injection equipment to take drugs, usually without a prescription. The sharing of drug injection equipment is common mode of HIV exposure.

**Late HIV Diagnosis:** An event in which a case is diagnosed with AIDS within 12 months of HIV diagnosis. A late HIV diagnosis suggests that a person has been infected for many years and was not routinely screened for HIV infection prior to diagnosis. DOH closely monitors the proportion of new HIV cases that are diagnosed late each year.

**Linkage to Care:** The proportion of new HIV cases who appear to have completed an HIV medical care visit within 30 days the date of their of HIV diagnosis, usually based on the report of HIV-related laboratory results. This is a key performance measure within the HIV care continuum.

**Living HIV Case:** A resident, diagnosed case of HIV infection within a specified time period. Living cases can include persons who were originally diagnosed while living outside Washington state. Living HIV cases are often used as a proxy measure of HIV prevalence. Residency is based on vital status and address information collected and stored within the state's HIV surveillance registry. Also referred to as 'Ever Diagnosed' or 'person living with diagnosed HIV infection.'

**Male-male sex:** The behavior of men having sex with other men. Condomless anal intercourse between men is the most common mode of HIV exposure in the U.S.

**Men Having Sex with Men (MSM):** In this report, refers to men who report any history of male-male sex since 1977.

**Mode of Exposure:** The manner in which a case was most likely to have been infected by HIV, based on reported HIV risk behaviors. A case can only be attributed to one mode of exposure, although re-categorization is possible as new information becomes available.

**New HIV Case:** A new case of HIV infection diagnosed while living in Washington state. New HIV cases include persons with and without AIDS. New HIV cases are often used as a proxy measure of HIV incidence.

**Person Who Injects Drugs (PWID):** In this report, describes cases reporting any history of injection drug use (IDU) since 1977.

**Pediatric Exposure:** A mode of HIV exposure which involve children ages 12 and under. These cases are often the result of mother-to-child (or perinatal) transmission.

**Transgender:** Refers to a person whose gender identity is inconsistent with the sex which was assigned to them at birth. Transgender women who have sex with men (TSM) have higher risk for HIV infection compared to cisgender women.

**Reporting Delay:** This refers to the length of time between the dates when a case-related event occurs and when information about that event is reported to the health department. In Washington state, most HIV-related reporting delays are less than 3 months in length, but some last much longer.

**Viral Load:** This is the concentration of viral copies circulating within a person's blood plasma. Reducing viral load improves patient health and reduces their ability to infect others. Viral load can be reduced by HIV medication, and is a good indication of whether a person is receiving optimal HIV medical care.

**Virologic Suppression:** The reduction of a person's HIV viral load to  $\leq 200$  copies/mL. The proportion of living HIV cases who have achieved virologic suppression is a key performance measure within the HIV care continuum. Sometimes described as 'viral load suppression' or 'viral suppression.'

## STATISTICS: NEW HIV CASES

Table 1. New HIV Cases, including Late HIV Diagnoses and Linkage to Care, by Demographic and Risk Characteristics, WA State, 2016

	New HIV Cases			Late HIV Diagnoses*		Initial Linkage to HIV Care**	
	no.	column %	rate	no.	row %	no.	row %
<b>Total</b>	<b>440</b>	<b>100%</b>	<b>6.1</b>	<b>111</b>	<b>25%</b>	<b>365</b>	<b>83%</b>
<b>Gender</b>							
Male	341	78%	10.0	84	25%	280	82%
Female	95	22%	2.3	25	26%	82	86%
Transgender male	0	0%	n/a	n/a	n/a	n/a	n/a
Transgender female	4	1%	n/a	n/a	n/a	n/a	n/a
<b>Age at HIV Diagnosis</b>							
< 13	3	1%	n/a	n/a	n/a	n/a	n/a
13-24	73	17%	6.5	5	7%	57	78%
25-34	136	31%	14.1	29	21%	115	85%
35-44	98	22%	11.3	27	28%	84	86%
45-54	73	17%	8.0	31	42%	55	75%
55-64	44	10%	4.9	13	30%	38	86%
65+	13	3%	1.2	5	38%	13	100%
<b>Race/ethnicity</b>							
AI/AN <sup>+</sup>	10	2%	12.0	5	50%	7	70%
Asian	36	8%	6.8	13	36%	34	94%
Black	91	21%	37.3	26	29%	70	77%
Foreign-born <sup>α</sup>	47	11%	76.7	16	34%	41	87%
U.S.-born <sup>α</sup>	33	8%	17.0	7	21%	22	67%
Hispanic	71	16%	8.0	19	27%	62	87%
Foreign-born <sup>α</sup>	40	9%	13.4	14	35%	37	93%
U.S.-born <sup>α</sup>	21	5%	3.5	2	10%	16	76%
NHOPI <sup>+</sup>	4	1%	8.3	n/a	n/a	n/a	n/a
White	211	48%	4.3	44	21%	174	82%
Multiple	17	4%	5.7	2	12%	15	88%
<b>Mode of Exposure</b>							
Male-male sex (MSM)	225	51%	n/a	46	20%	193	86%
IDU	29	7%	n/a	9	31%	23	79%
MSM/IDU	26	6%	n/a	6	23%	17	65%
Heterosexual sex	45	10%	n/a	8	18%	38	84%
Blood/pediatric	6	1%	n/a	n/a	n/a	n/a	n/a
Unknown	109	25%	n/a	42	39%	88	81%

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Late HIV diagnoses = AIDS diagnoses within 12 months of HIV diagnoses

\*\* Initial linkage to care = at least one CD4 or viral load result within 30 days of HIV diagnoses

<sup>α</sup> Cases for which country of birth is unknown (~10%) have been excluded from counts; rates are estimated

based on cases with known information

<sup>+</sup> American Indian or Alaska Native (AI/AN); Native Hawaiian or Other Pacific Islander (NHOPI)

## STATISTICS: NEW HIV CASES (continued)

Table 2. New HIV Cases, including Late HIV Diagnoses and Linkage to Care, by County and Health District (HD) of Residence at HIV Diagnosis, WA State, 2016

County and Health District (HD) of Residence	New HIV Cases			Late HIV Diagnoses*		Initial Linkage to HIV Care**	
	no.	column %	rate	no.	row %	no.	row %
ADAMS CO.	0	0%	0.0	n/a	n/a	n/a	n/a
ASOTIN CO.	0	0%	0.0	n/a	n/a	n/a	n/a
BENTON CO.	5	1%	n/a	n/a	n/a	n/a	n/a
BENTON-FRANKLIN HD	10	2%	n/a	3	30%	5	50%
CHELAN CO.	6	1%	n/a	n/a	n/a	n/a	n/a
CHELAN-DOUGLAS HD	6	1%	n/a	n/a	n/a	n/a	n/a
CLALLAM CO.	3	1%	n/a	n/a	n/a	n/a	n/a
CLARK CO.	24	5%	4.8	5	21%	19	79%
COLUMBIA CO.	0	0%	0.0	n/a	n/a	n/a	n/a
COWLITZ CO.	2	0%	n/a	n/a	n/a	n/a	n/a
DOUGLAS CO.	0	0%	0.0	n/a	n/a	n/a	n/a
FERRY CO.	1	0%	n/a	n/a	n/a	n/a	n/a
FRANKLIN CO.	5	1%	n/a	n/a	n/a	n/a	n/a
GARFIELD CO.	0	0%	0.0	n/a	n/a	n/a	n/a
GRANT CO.	0	0%	0.0	n/a	n/a	n/a	n/a
GRAYS HARBOR CO.	1	0%	n/a	n/a	n/a	n/a	n/a
ISLAND CO.	2	0%	n/a	n/a	n/a	n/a	n/a
JEFFERSON CO.	2	0%	n/a	n/a	n/a	n/a	n/a
KING CO.	219	50%	10.3	50	23%	193	88%
KITSAP CO.	8	2%	n/a	n/a	n/a	n/a	n/a
KITTITAS CO.	1	0%	n/a	n/a	n/a	n/a	n/a
KLICKITAT CO.	0	0%	0.0	n/a	n/a	n/a	n/a
LEWIS CO.	0	0%	0.0	n/a	n/a	n/a	n/a
LINCOLN CO.	0	0%	n/a	n/a	n/a	n/a	n/a
MASON CO.	3	1%	n/a	n/a	n/a	n/a	n/a
NE TRI-COUNTY HD	1	0%	n/a	n/a	n/a	n/a	n/a
OKANOGAN CO.	1	0%	n/a	n/a	n/a	n/a	n/a
PACIFIC CO.	0	0%	0.0	n/a	n/a	n/a	n/a
PEND OREILLE CO.	0	0%	n/a	n/a	n/a	n/a	n/a
PIERCE CO.	49	11%	5.7	15	31%	35	71%
SAN JUAN CO.	0	0%	0.0	n/a	n/a	n/a	n/a
SKAGIT CO.	9	2%	n/a	n/a	n/a	n/a	n/a
SKAMANIA CO.	0	0%	0.0	n/a	n/a	n/a	n/a
SNOHOMISH CO.	49	11%	6.2	14	29%	41	84%
SPOKANE CO.	23	5%	4.7	8	35%	20	87%
STEVENS CO.	0	0%	0.0	n/a	n/a	n/a	n/a
THURSTON CO.	11	3%	n/a	2	18%	7	64%
WAHKIAKUM CO.	0	0%	0.0	n/a	n/a	n/a	n/a
WALLA WALLA CO.	1	0%	n/a	n/a	n/a	n/a	n/a
WHATCOM CO.	2	0%	n/a	n/a	n/a	n/a	n/a
WHITMAN CO.	0	0%	0.0	n/a	n/a	n/a	n/a
YAKIMA CO.	11	3%	n/a	3	27%	9	82%
TOTAL	438	100%	6.1	111	25%	365	83%

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Late HIV diagnoses = AIDS diagnoses within 12 months of HIV diagnoses

\*\* Initial linkage to care = at least one CD4 or viral load result within 30 days of HIV diagnosis



## STATISTICS: NEW HIV CASES (continued)

Table 3. New HIV Case Counts over Time, by Demographic and Risk Characteristics, WA State, 2011-2016

	2011	2012	2013	2014	2015	2016	2012-2016			
	no.	no.	no.	no.	no.	no.	total no.	avg. no.	%	rate
<b>Total</b>	493	509	455	444	458	440	2306	461	100%	6.6
<b>Gender</b>										
Male	419	417	379	365	380	341	1882	376	82%	11.0
Female	68	87	72	75	73	95	402	80	17%	2.3
Transgender male	0	0	1	1	0	0	2	0	0%	n/a
Transgender female	6	5	3	3	5	4	20	4	1%	n/a
<b>Age at HIV Diagnosis</b>										
< 13	6	8	8	3	4	3	26	5	1%	0.5
13-24	68	80	73	67	72	73	365	73	16%	6.6
25-34	146	158	131	137	166	136	728	146	32%	15.2
35-44	126	131	130	108	102	98	569	114	25%	12.7
45-54	91	89	84	92	75	73	413	83	18%	8.7
55-64	44	41	26	25	33	44	169	34	7%	3.8
65+	12	2	3	12	6	13	36	7	2%	0.7
<b>Race/ethnicity</b>										
AI/AN <sup>+</sup>	4	5	4	6	5	10	30	6	1%	6.8
Asian	24	30	24	38	35	36	163	33	7%	6.3
Black	89	95	88	95	92	91	461	92	20%	38.0
Foreign-born*	40	50	45	50	39	47	231	46	10%	96.3
U.S.-born*	46	40	36	37	43	33	189	38	8%	18.9
Hispanic	77	64	78	61	85	71	359	72	16%	8.5
Foreign-born*	43	35	43	40	50	40	208	42	9%	14.6
U.S.-born*	26	17	23	14	20	21	95	19	4%	3.3
NHOPI <sup>+</sup>	5	7	5	5	4	4	25	5	1%	12.7
White	280	284	243	228	225	211	1191	238	52%	4.8
Multiple	14	24	13	11	12	17	77	15	3%	5.1
<b>Mode of Exposure</b>										
Male-male sex (MSM)	297	282	266	251	272	225	1296	259	56%	n/a
IDU	30	22	20	22	36	29	129	26	6%	n/a
MSM/IDU	47	42	33	29	22	26	152	30	7%	n/a
Heterosexual sex	39	40	36	34	36	45	191	38	8%	n/a
Blood/pediatric	6	3	4	3	4	6	20	4	1%	n/a
Unknown	74	120	96	105	88	109	518	104	22%	n/a

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

<sup>a</sup> Cases for which country of birth is unknown (~10%) have been excluded from counts; rates are estimated

based on cases with known information

<sup>+</sup> American Indian or Alaska Native (AI/AN); Native Hawaiian or Other Pacific Islander (NHOPI)

## STATISTICS: NEW HIV CASES (continued)

Table 4. New HIV Case Counts over Time, by County and Health District (HD) of Residence at HIV Diagnosis, WA State, 2011-2016

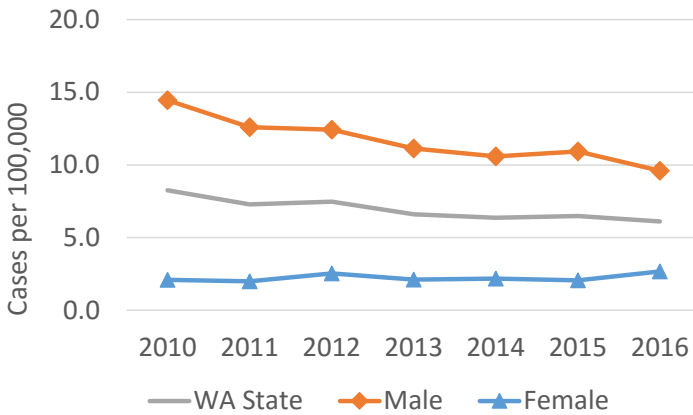
County and Health District of Residence	2011	2012	2013	2014	2015	2016	2012-2016			
	no.	no.	no.	no.	no.	no.	total no.	avg. no.	%	rate
ADAMS CO.	1	0	0	0	1	0	1	0	0%	n/a
ASOTIN CO.	1	0	1	0	1	0	2	0	0%	n/a
BENTON CO.	12	5	7	8	1	5	26	5	1%	2.7
BENTON-FRANKLIN HD	13	7	7	9	6	10	39	8	2%	2.9
CHELAN CO.	4	3	3	4	5	6	21	4	1%	5.6
CHELAN-DOUGLAS HD	5	3	5	4	8	6	26	5	1%	4.6
CLALLAM CO.	3	4	3	1	4	3	15	3	1%	4.1
CLARK CO.	28	26	25	23	20	24	118	24	5%	5.3
COLUMBIA CO.	0	0	0	0	0	0	0	0	0%	n/a
COWLITZ CO.	3	5	1	5	2	2	15	3	1%	2.9
DOUGLAS CO.	1	0	2	0	3	0	5	1	0%	n/a
FERRY CO.	0	0	0	1	0	1	2	0	0%	n/a
FRANKLIN CO.	1	2	0	1	5	5	13	3	1%	3.0
GARFIELD CO.	0	0	0	0	0	0	0	0	0%	n/a
GRANT CO.	3	3	0	0	0	0	3	1	0%	n/a
GRAYS HARBOR CO.	4	7	1	3	4	1	16	3	1%	4.4
ISLAND CO.	1	3	3	2	1	2	11	2	0%	n/a
JEFFERSON CO.	0	1	1	2	1	2	7	1	0%	n/a
KING CO.	270	286	252	272	234	219	1263	253	55%	12.7
KITSAP CO.	6	11	7	6	10	8	42	8	2%	3.4
KITTITAS CO.	0	0	2	1	1	1	5	1	0%	n/a
KLICKITAT CO.	0	1	0	0	0	0	1	0	0%	n/a
LEWIS CO.	5	1	1	1	1	0	4	1	0%	n/a
LINCOLN CO.	0	0	0	0	0	0	0	0	0%	0.0
MASON CO.	7	9	3	1	5	5	23	5	1%	7.4
NE TRI-COUNTY HD	1	0	2	1	1	1	5	1	0%	1.5
OKANOGAN CO.	1	3	0	0	0	1	4	1	0%	n/a
PACIFIC CO.	0	2	0	1	0	0	3	1	0%	n/a
PEND OREILLE CO.	0	0	0	0	1	0	1	0	0%	n/a
PIERCE CO.	56	51	59	44	67	49	270	54	12%	6.6
SAN JUAN CO.	0	0	2	0	0	0	2	0	0%	n/a
SKAGIT CO.	5	4	9	5	1	9	28	6	1%	4.7
SKAMANIA CO.	0	0	0	1	1	0	2	0	0%	n/a
SNOHOMISH CO.	33	39	28	35	40	49	191	38	8%	5.1
SPOKANE CO.	24	25	21	6	24	23	99	20	4%	4.1
STEVENS CO.	1	0	2	0	0	0	2	0	0%	n/a
THURSTON CO.	7	4	8	5	8	11	36	7	2%	2.7
WAHIAKUM CO.	0	0	0	1	0	0	1	0	0%	n/a
WALLA WALLA CO.	0	3	0	0	0	1	4	1	0%	n/a
WHATCOM CO.	7	4	8	5	9	2	28	6	1%	2.8
WHITMAN CO.	1	0	0	1	2	0	3	1	0%	n/a
YAKIMA CO.	8	7	6	9	6	11	39	8	2%	3.1
TOTAL	493	509	455	444	458	440	2306	461	100%	6.7

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017



STATISTICS: NEW HIV CASES (continued)

Figure 3. New HIV Case Rates by Gender,\* WA State, 2010-2016



\*transgender rates not available due to small case counts

Figure 4. New HIV Case Rates by Age at Diagnosis, WA State, 2010-2016

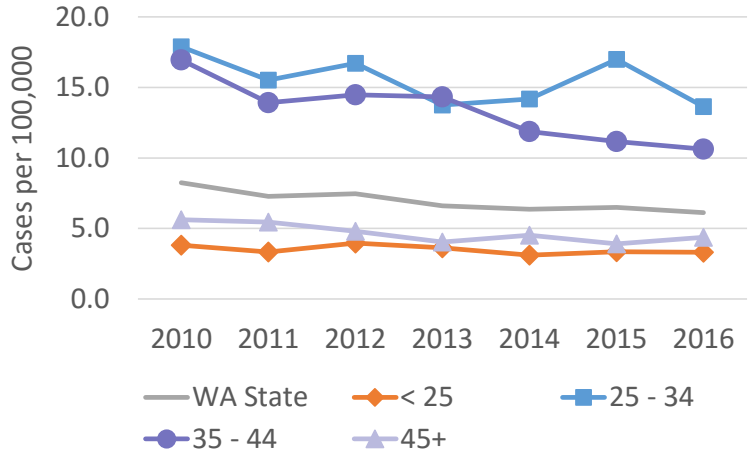


Figure 5. New HIV Case Rates by Race/ethnicity, WA State, 2010-2016

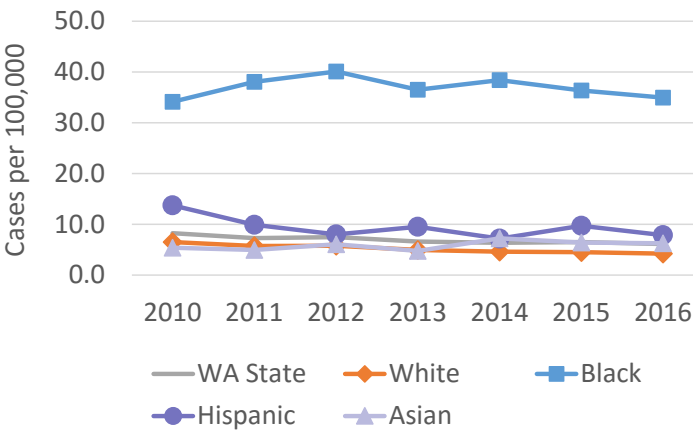


Figure 6. New HIV Case Rates among Black Persons by Nativity, WA State, 2010-2016

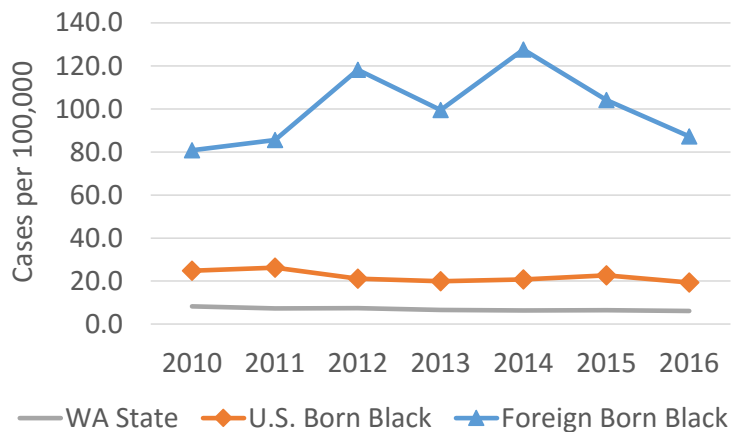


Figure 7. New HIV Case Rates among Hispanic Persons by Nativity, WA State, 2010-2016

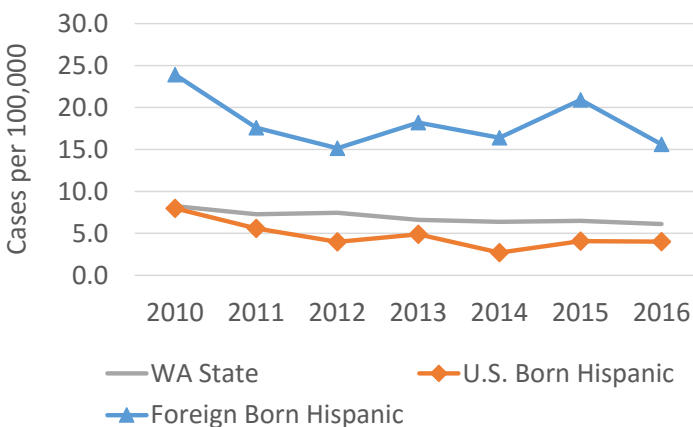
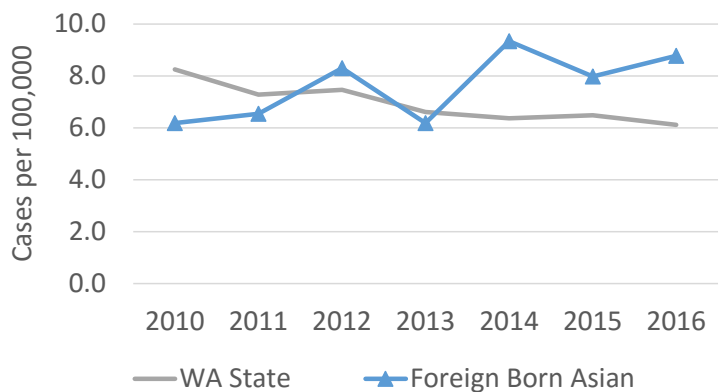


Figure 8. New HIV Case Rates among Asian Persons by Nativity, WA State, 2010-2016



\*U.S. born Asian rates not available due to small case counts

STATISTICS: NEW HIV CASES (continued)

Table 5. New Cases of HIV Infection, by Current Gender\*, Race/Ethnicity, and Mode of HIV Exposure, WA State, 2012-2016

Gender	Mode of Exposure	White		Black		Hispanic		Asian		Other	
		No.	%	No.	%	No.	%	No.	%	No.	%
Male	Male-Male Sex (MSM)	754	72%	146	54%	224	71%	86	88%	61	66%
	Injection Drug Use (IDU)	50	5%	7	3%	13	4%	3	3%	6	7%
	MSM and IDU	113	11%	6	2%	15	5%	1	1%	11	12%
	Heterosexual Sex	16	2%	11	4%	10	3%	3	3%	1	1%
	Pediatric	3	0%	6	2%	0	0%	0	0%	1	1%
	Blood	0	0%	0	0%	0	0%	0	0%	0	0%
	Unknown	117	11%	95	35%	53	17%	5	5%	12	13%
	<b>Total Male</b>		<b>1,053</b>	<b>100%</b>	<b>271</b>	<b>100%</b>	<b>315</b>	<b>100%</b>	<b>98</b>	<b>100%</b>	<b>92</b>
Female	Injection Drug Use (IDU)	41	32%	1	1%	2	5%	1	3%	5	28%
	Heterosexual Sex	53	41%	57	31%	20	51%	11	38%	9	50%
	Pediatric	1	1%	8	4%	0	0%	1	3%	0	0%
	Blood	0	0%	0	0%	0	0%	0	0%	0	0%
	Unknown	35	27%	120	65%	17	44%	16	55%	4	22%
<b>Total Female</b>		<b>130</b>	<b>100%</b>	<b>186</b>	<b>100%</b>	<b>39</b>	<b>100%</b>	<b>29</b>	<b>100%</b>	<b>18</b>	<b>100%</b>
Transgender Female	Male sex partner (TSM)	3	43%	4	100%	4	80%	1	100%	2	67%
	TSM and IDU	3	43%	0	0%	1	20%	0	0%	0	0%
	Other	0	0%	0	0%	0	0%	0	0%	0	0%
	Unknown	1	14%	0	0%	0	0%	0	0%	1	33%
<b>Total Transgender Female</b>		<b>7</b>	<b>100%</b>	<b>4</b>	<b>100%</b>	<b>5</b>	<b>100%</b>	<b>1</b>	<b>100%</b>	<b>3</b>	<b>100%</b>

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Due to the small number of transgender male HIV cases (n=2), further stratification is not possible

Figure 9. New HIV Case Rates, WA State, 2007-2016

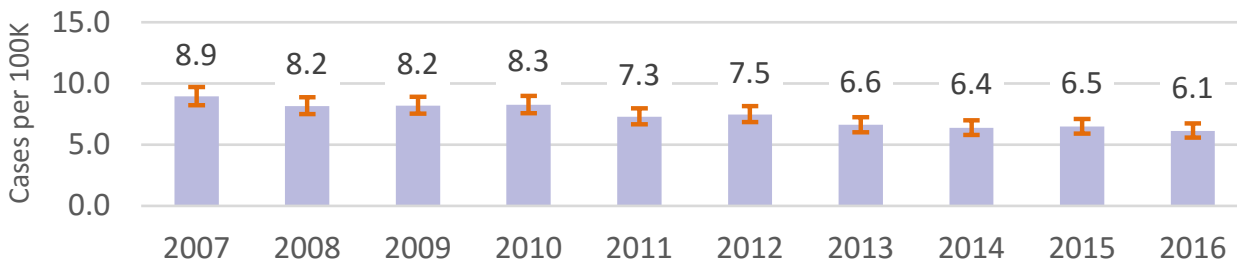
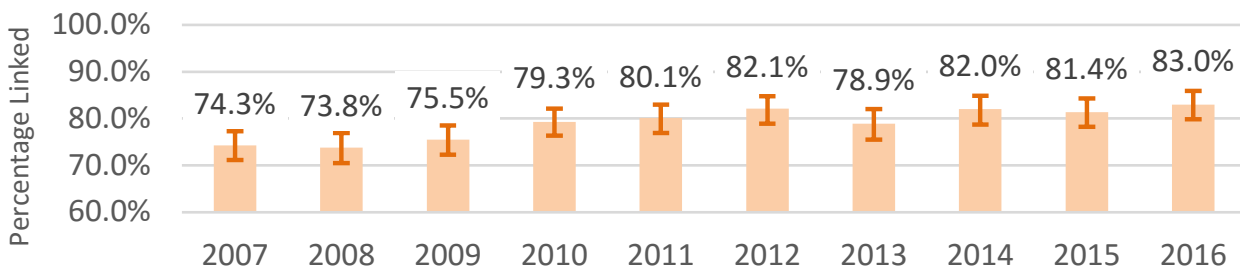


Figure 10. Linkage to Care among New HIV Cases, WA State, 2007-2016



## STATISTICS: LIVING HIV CASES

Table 6. Living Cases of HIV Infection, including Engagement in Care and Viral Load Suppression, by Demographic and Risk Characteristics, WA State, 2016

	Living Cases of HIV Infection			Engaged in Care*		Suppressed Viral Load**	
	no.	column %	rate	no.	row %	no.	row %
<b>Total</b>	<b>12395</b>	<b>100%</b>	<b>172.6</b>	<b>11106</b>	<b>90%</b>	<b>9807</b>	<b>79%</b>
<b>Gender</b>							
Male	10489	85%	295.3	9398	90%	8335	79%
Female	1807	15%	50.5	1620	90%	1405	78%
Transgender male	6	0%	n/a	n/a	n/a	n/a	n/a
Transgender female	93	1%	n/a	83	89%	63	68%
<b>Current Age</b>							
< 13	42	0%	3.6	39	0%	39	93%
13-24	286	2%	25.8	260	2%	198	69%
25-34	1592	13%	160.2	1396	11%	1153	72%
35-44	2531	20%	274.8	2204	18%	1926	76%
45-54	4225	34%	443.6	3784	31%	3392	80%
55-64	2810	23%	296.8	2585	21%	2372	84%
65+	909	7%	84.8	838	7%	727	80%
<b>Race/ethnicity</b>							
AI/AN <sup>†</sup>	147	1%	163.2	131	89%	109	74%
Asian	448	4%	78.0	389	87%	354	79%
Black	1966	16%	755.4	1750	89%	1501	76%
Foreign-born <sup>α</sup>	739	6%	1205.5	672	91%	629	85%
U.S.-born <sup>α</sup>	1142	9%	586.9	1009	88%	814	71%
Hispanic	1582	13%	173.1	1400	88%	1235	78%
Foreign-born <sup>α</sup>	815	7%	273.4	713	87%	646	79%
U.S.-born <sup>α</sup>	626	5%	103.1	562	90%	486	78%
NHOPI <sup>†</sup>	61	0%	135.2	53	87%	41	67%
White	7597	61%	152.0	6832	90%	6099	80%
Multiple	594	5%	192.4	544	92%	468	79%
<b>Mode of Exposure</b>							
Male-male sex (MSM)	7676	62%	n/a	6972	91%	6229	81%
IDU	763	6%	n/a	670	88%	539	71%
MSM/IDU	1116	9%	n/a	1015	91%	854	77%
Heterosexual sex	1482	12%	n/a	1312	89%	1173	79%
Blood/pediatric	163	1%	n/a	152	93%	132	81%
Unknown	1195	10%	n/a	1030	86%	880	74%

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Engaged in care = at least one reported CD4 or VL result within calendar year

\*\* Suppressed viral load = last reported viral load result in calendar year was ≤ 200 copies/mL

<sup>α</sup> Cases for which country of birth is unknown (~10%) have been excluded from counts; rates are estimated

based on cases with known information

<sup>†</sup> American Indian or Alaska Native (AI/AN); Native Hawaiian or Other Pacific Islander (NHOPI)

## STATISTICS: LIVING HIV CASES (continued)

Table 7. Living Cases of HIV Infection, including Engagement in Care and Viral Load Suppression, by County and Health District (HD) of Current Residence, WA State, 2016

County and Health District of Residence	Living Cases of HIV Infection, 2016			Engaged in Care*		Suppressed Viral Load**	
	no.	column %	rate	no.	row %	no.	row %
ADAMS CO.	12	0%	61.5	12	100%	9	75%
ASOTIN CO.	21	0%	94.8	18	86%	16	76%
BENTON CO.	109	1%	56.2	96	88%	86	79%
BENTON-FRANKLIN HD	173	1%	62.0	154	89%	136	79%
CHELAN CO.	55	0%	73.8	47	85%	41	75%
CHELAN-DOUGLAS HD	71	1%	60.9	60	85%	51	72%
CLALLAM CO.	70	1%	94.0	64	91%	51	73%
CLARK CO.	606	5%	131.0	515	85%	438	72%
COLUMBIA CO.	8	0%	n/a	n/a	n/a	n/a	n/a
COWLITZ CO.	109	1%	105.9	95	87%	77	71%
DOUGLAS CO.	16	0%	39.3	13	81%	10	63%
FERRY CO.	2	0%	n/a	n/a	n/a	n/a	n/a
FRANKLIN CO.	64	1%	72.2	58	91%	50	78%
GARFIELD CO.	3	0%	n/a	n/a	n/a	n/a	n/a
GRANT CO.	39	0%	41.2	34	87%	30	77%
GRAYS HARBOR CO.	76	1%	103.0	67	88%	60	79%
ISLAND CO.	77	1%	92.9	68	88%	59	77%
JEFFERSON CO.	38	0%	122.2	31	82%	25	66%
KING CO.	6798	55%	323.6	6155	91%	5579	82%
KITSAP CO.	283	2%	107.4	250	88%	217	77%
KITTITAS CO.	25	0%	57.2	23	92%	20	80%
KLICKITAT CO.	11	0%	56.4	9	82%	9	82%
LEWIS CO.	54	0%	70.2	49	91%	41	76%
LINCOLN CO.	8	0%	n/a	n/a	n/a	n/a	n/a
MASON CO.	65	1%	102.7	56	86%	49	75%
NE TRI-COUNTY HD	33	0%	50.7	29	88%	28	85%
OKANOGAN CO.	22	0%	52.7	17	77%	12	55%
PACIFIC CO.	28	0%	136.9	22	79%	17	61%
PEND OREILLE CO.	11	0%	n/a	9	82%	9	82%
PIERCE CO.	1324	11%	156.2	1159	88%	970	73%
SAN JUAN CO.	21	0%	128.7	20	95%	17	81%
SKAGIT CO.	93	1%	76.1	79	85%	60	65%
SKAMANIA CO.	5	0%	n/a	n/a	n/a	n/a	n/a
SNOHOMISH CO.	1018	8%	132.0	933	92%	837	82%
SPOKANE CO.	560	5%	113.7	480	86%	401	72%
STEVENS CO.	20	0%	43.1	18	90%	17	85%
THURSTON CO.	265	2%	97.2	243	92%	205	77%
WAHIAKUM CO.	4	0%	n/a	n/a	n/a	n/a	n/a
WALLA WALLA CO.	51	0%	85.6	46	90%	42	82%
WHATCOM CO.	176	1%	82.3	155	88%	112	64%
WHITMAN CO.	22	0%	45.9	18	82%	17	77%
YAKIMA CO.	226	2%	90.5	219	97%	197	87%
TOTAL	12395	100%	172.6	11106	90%	9807	79%

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Engaged in care = at least one reported CD4 or VL result within calendar year

\*\* Suppressed viral load = last reported viral load result in calendar year was  $\leq 200$  copies/mL

STATISTICS: LIVING HIV CASES (continued)

Table 8. Living Cases of HIV Infection, by Current Gender\*, Race/Ethnicity, and Mode of HIV Exposure, WA State, 2016

Gender	Mode of Exposure	White		Black		Hispanic		Asian		Other	
		No.	%	No.	%	No.	%	No.	%	No.	%
Male	Male-Male Sex (MSM)	5,285	77%	643	51%	979	72%	256	70%	451	68%
	Injection Drug Use (IDU)	296	4%	87	7%	50	4%	9	2%	35	5%
	MSM and IDU	780	11%	90	7%	112	8%	9	2%	103	16%
	Heterosexual Sex	113	2%	144	11%	62	5%	13	4%	29	4%
	Pediatric	14	0%	28	2%	4	0%	2	1%	4	1%
	Blood	28	0%	3	0%	2	0%	0	0%	2	0%
	Unknown	331	5%	262	21%	146	11%	77	21%	40	6%
<b>Total Male</b>		<b>6,847</b>	<b>100%</b>	<b>1,257</b>	<b>100%</b>	<b>1,355</b>	<b>100%</b>	<b>366</b>	<b>100%</b>	<b>664</b>	<b>100%</b>
Female	Injection Drug Use (IDU)	180	26%	45	6%	20	10%	2	3%	35	28%
	Heterosexual Sex	427	61%	424	61%	139	70%	51	65%	78	62%
	Pediatric	15	2%	40	6%	6	3%	2	3%	0	0%
	Blood	4	1%	6	1%	1	1%	2	3%	0	0%
	Unknown	79	11%	182	26%	34	17%	22	28%	13	10%
<b>Total Female</b>		<b>705</b>	<b>100%</b>	<b>697</b>	<b>100%</b>	<b>200</b>	<b>100%</b>	<b>79</b>	<b>100%</b>	<b>126</b>	<b>100%</b>
Transgender Female	Male sex partner (TSM)	25	61%	11	92%	17	63%	2	67%	7	70%
	TSM and IDU	11	27%	1	8%	7	26%	1	33%	2	20%
	Other	2	5%	0	0%	2	7%	0	0%	0	0%
	Unknown	3	7%	0	0%	1	4%	0	0%	1	10%
<b>Total Transgender Female</b>		<b>41</b>	<b>100%</b>	<b>12</b>	<b>100%</b>	<b>27</b>	<b>100%</b>	<b>3</b>	<b>100%</b>	<b>10</b>	<b>100%</b>

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\* Due to the small number of transgender male HIV cases (n=6), further stratification is not possible

Figure 11. Living HIV Case Rates, WA State, 2007-2016

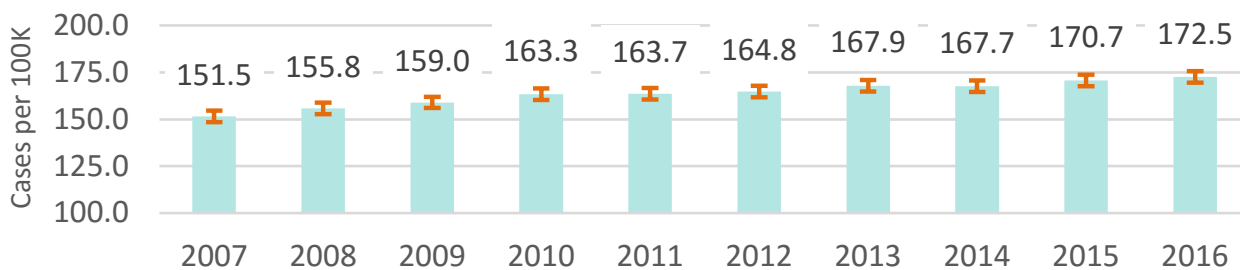
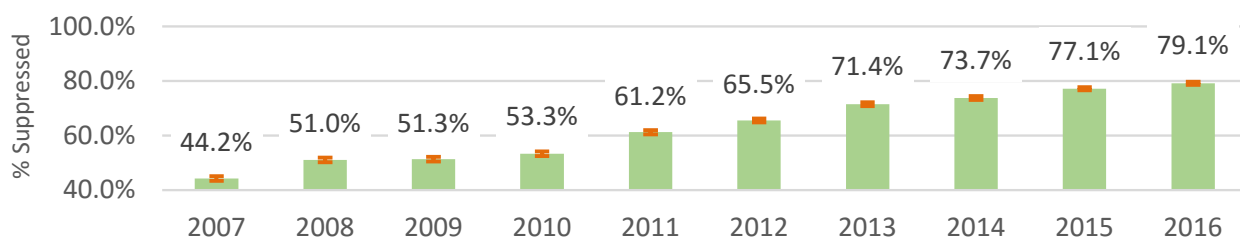


Figure 12. Virologic Suppression among Living HIV Cases, WA State, 2007-2016



STATISTICS: AIDS CASES AND DEATHS

Table 9. New AIDS Cases and Deaths among Cases of HIV Infection, by Demographic and Risk Characteristics, WA State, 1982-2016

	New AIDS Cases, 2016*			Deaths among Cases of HIV Infection					
				2015				1982-2015	
	no.	column %	crude rate	no.	column %	age-adjusted death rate (per 100K)	case fatality rate (per 1000)	no.	column %
<b>Total</b>	170	100%	2.4	139	100%	1.8	11.2	7955	100%
<b>Gender</b>									
Male	122	72%	3.4	122	88%	3.2	11.6	7271	91%
Female	45	26%	1.3	17	12%	0.5	9.4	667	8%
Transgender male	0	0%	n/a	0	0%	0.0	0.0	0	0%
Transgender female	3	2%	n/a	0	0%	0.0	0.0	17	0%
<b>Current Age</b>									
< 13	1	1%	n/a	1	1%	n/a	23.8	19	0%
13-24	6	4%	n/a	1	1%	n/a	3.5	99	1%
25-34	49	29%	4.9	9	6%	n/a	5.7	1715	22%
35-44	41	24%	4.6	14	10%	1.5	5.5	2993	38%
45-54	47	28%	4.9	47	34%	4.9	11.1	1899	24%
55-64	20	12%	2.1	38	27%	4.1	13.5	877	11%
65+	6	4%	n/a	29	21%	2.8	31.9	353	4%
<b>Race/ethnicity</b>									
AI/AN <sup>†</sup>	4	2%	n/a	1	1%	n/a	6.8	124	2%
Asian	11	6%	n/a	1	1%	n/a	2.2	91	1%
Black	38	22%	14.6	22	16%	9.4	11.2	749	9%
Foreign-born <sup>α</sup>	22	13%	35.9	7	5%	n/a	9.5	65	1%
U.S.-born <sup>α</sup>	13	8%	6.7	14	10%	n/a	12.3	672	8%
Hispanic	34	20%	3.8	14	10%	2.5	8.8	506	6%
Foreign-born <sup>α</sup>	22	13%	7.4	7	5%	n/a	8.6	181	2%
U.S.-born <sup>α</sup>	10	6%	1.6	4	3%	n/a	6.4	196	2%
NHOPI <sup>†</sup>	3	2%	n/a	0	0%	n/a	0.0	16	0%
White	72	42%	1.4	89	64%	1.4	11.7	6224	78%
Multiple	8	5%	n/a	12	9%	7.4	20.2	243	3%
<b>Mode of Exposure</b>									
Male-male sex (MSM)	65	38%	n/a	63	45%	n/a	8.2	5137	65%
IDU	14	8%	n/a	19	14%	n/a	24.9	875	11%
MSM/IDU	18	11%	n/a	20	14%	n/a	17.9	853	11%
Heterosexual sex	22	13%	n/a	16	12%	n/a	10.8	451	6%
Blood/pediatric	0	0%	n/a	2	1%	n/a	12.3	184	2%
Unknown	51	30%	n/a	19	14%	n/a	15.9	455	6%

Table based on HIV surveillance data reported to the WA State Department of Health as of June 30, 2017

\*Includes new HIV cases concurrently diagnosed with both HIV and AIDS, as well as existing HIV cases that progressed to AIDS

<sup>α</sup> Cases for which country of birth is unknown (~10%) have been excluded from counts; rates are estimated

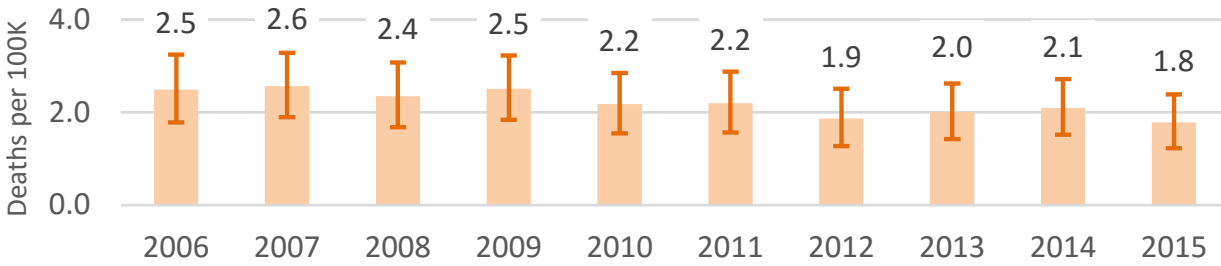
based on cases with known information

<sup>†</sup> American Indian or Alaska Native (AI/AN); Native Hawaiian or Other Pacific Islander (NHOPI)



STATISTICS: AIDS CASES AND DEATHS (continued)

Figure 13. Age-Adjusted HIV Death Rates, WA State, 2006-2015



STATISTICS: HIV CARE CONTINUA

Figure 14. HIV Care Continuum, WA State, 2016

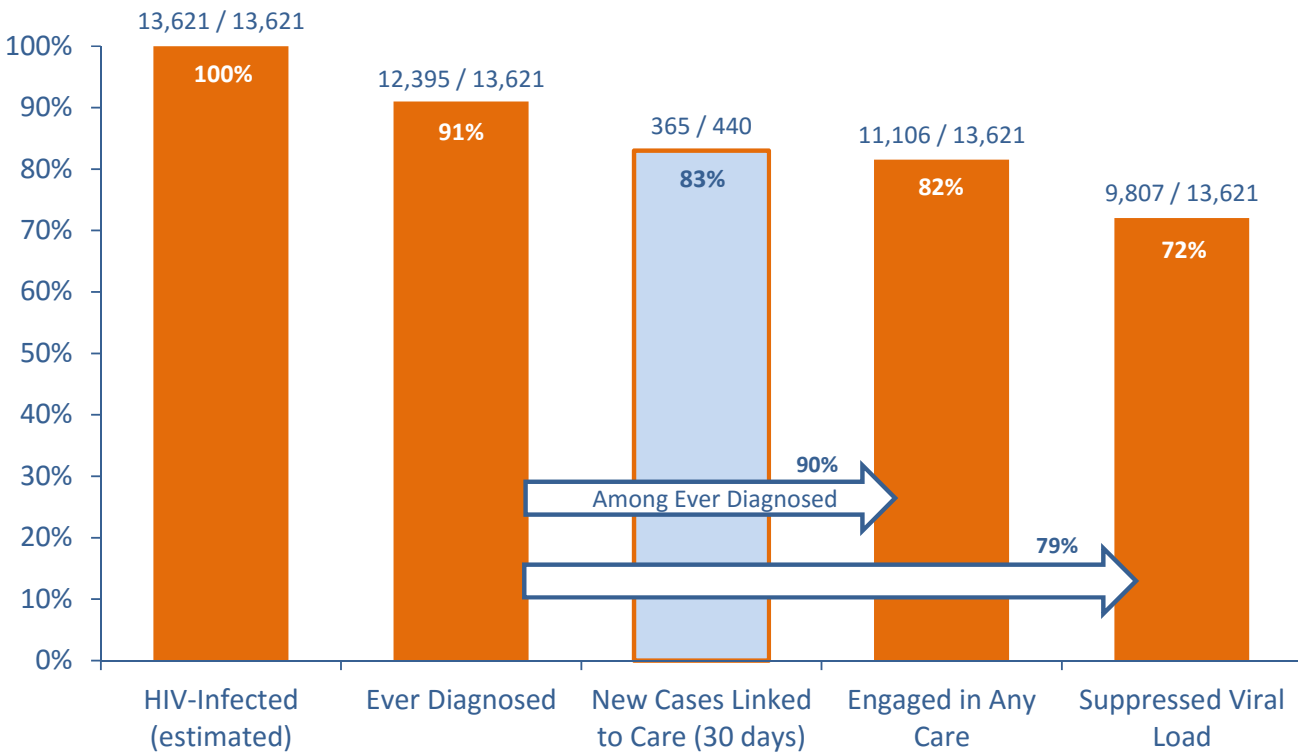
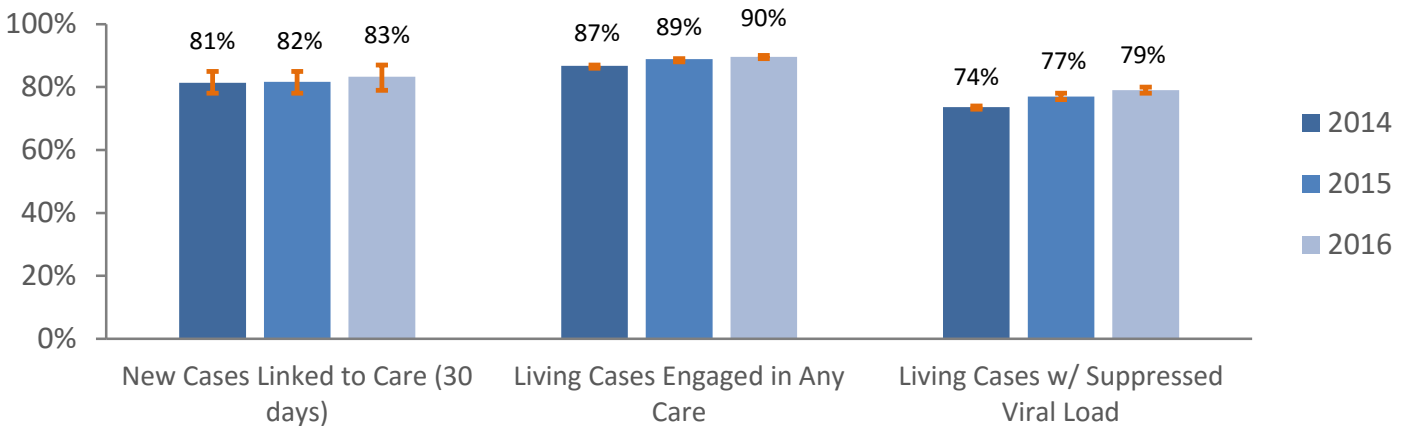


Figure 15. Statewide HIV Care Outcomes over Time, WA State, 2014-2016



STATISTICS: HIV CARE CONTINUA (continued)

Figure 16. HIV Care Outcomes over Time among Transgender Women Diagnosed and Living with HIV, WA State, 2014-2016

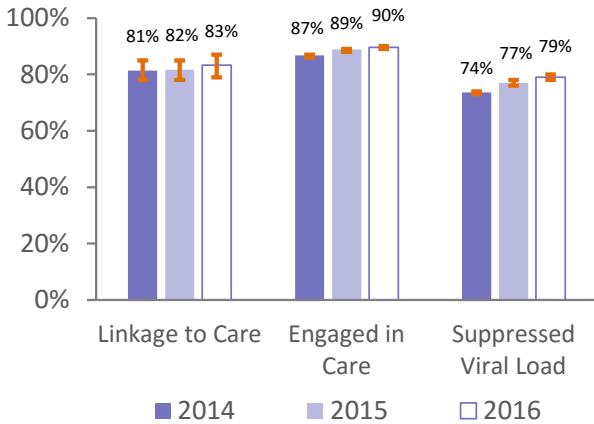


Figure 17. HIV Care Outcomes over Time among Young Adults (Ages 18-29) Diagnosed and Living with HIV, WA State, 2014-2016

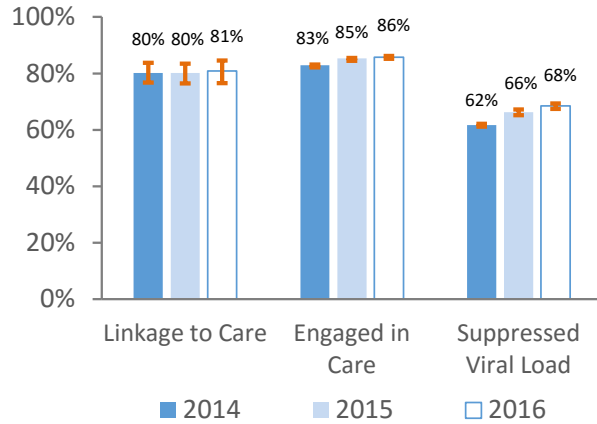


Figure 18. HIV Care Outcomes over Time among U.S.-Born Black Persons Diagnosed and Living with HIV, WA State, 2014-2016

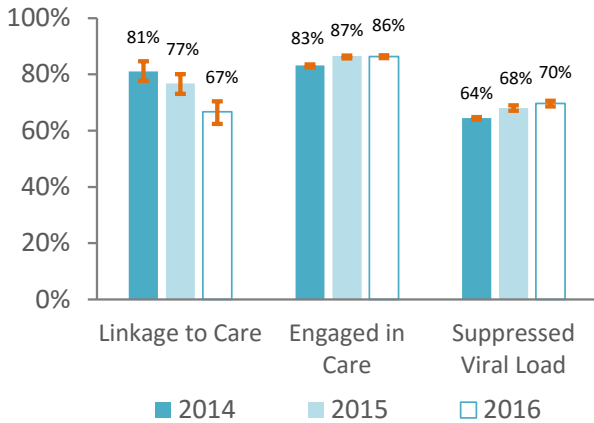


Figure 19. HIV Care Outcomes over Time among Foreign-Born Black Persons Diagnosed and Living with HIV, WA State, 2014-2016

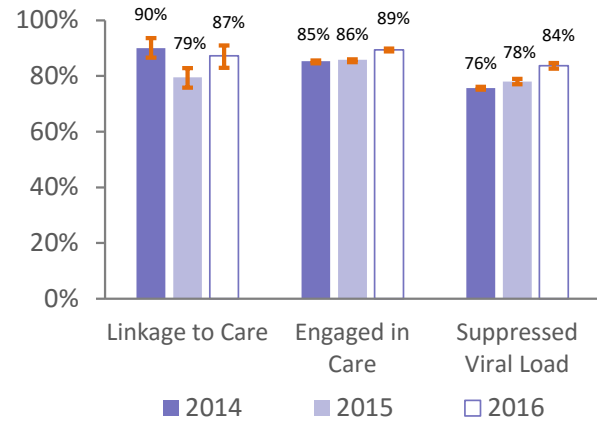


Figure 20. HIV Care Outcomes over Time among Foreign-Born Hispanic Persons Diagnosed and Living with HIV, WA State, 2014-2016

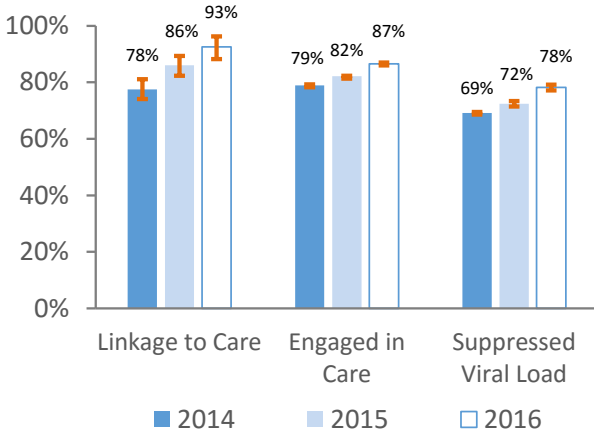
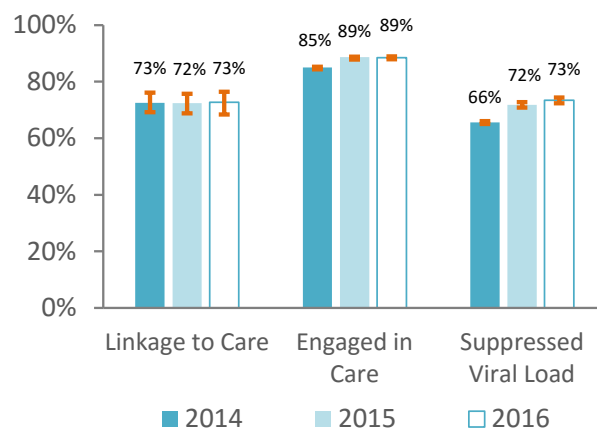


Figure 21. HIV Care Outcomes over Time among Persons Who Inject Drugs and are Diagnosed and Living with HIV, WA State, 2014-2016



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