



HIV DISEASE AMONG FEMALES IN SAN DIEGO COUNTY, 2017

Epidemiology and Immunization Services Branch

County of San Diego

Health and Human Services Agency



April 2019

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HIV DISEASE AMONG FEMALES IN SAN DIEGO COUNTY, 2017



Preface

This publication, *HIV Disease Among Females in San Diego County, 2017*, includes HIV disease data (regardless of stage of disease) reported through March 31, 2018.

This slide set describes the impact of the HIV epidemic in San Diego County by sex assigned at birth. Data for new HIV diagnoses (incidence), people living with HIV (prevalence), and engagement in HIV medical care (care continuum) are presented.

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Suggested Citation

County of San Diego, Health and Human Services Agency, Public Health Services, Epidemiology and Immunizations Branch. 2019. *HIV Disease Among Females in San Diego County, 2017*. Accessed MM/DD/YY from www.SDHIVAIDS.org.

HIV DISEASE AMONG FEMALES IN SAN DIEGO COUNTY, 2017



Introduction

This slide deck contains incidence, prevalence, and care continuum data for females with HIV disease.

Due to the limitations in obtaining accurate transgender data, the data presented here are for cases who were assigned female at birth. A separate transgender factsheet will be available soon to present data on transgender cases.

Updated addresses are not consistently available in the HIV surveillance system. This is a challenge in accurately estimating prevalence and engagement in care.

Contents

The first section presents cumulative data on females diagnosed with HIV disease while residing in San Diego County.

The second section shows data on females recently diagnosed with HIV disease while residing in San Diego County.

The third section displays females who were living with HIV disease through December 31, 2017 in San Diego County, regardless of where they were first diagnosed.

Rates are given “per 100,000 population” to make the calculated number easier to compare. They were based on population estimates from the San Diego Association of Governments (SANDAG).

The final section displays the percentages of females retained in care and virally suppressed.

Summary



- 2,085 females diagnosed with HIV disease while residing in San Diego County, 1980-2017
 - 1,308 (63%) had heterosexual contact risk
 - 1,268 (61%) were 20-39 years of age at diagnosis
 - 714 (34%) were Hispanic/Latina
- 247 females diagnosed with HIV disease recently (2013-2017) while residing in San Diego County
 - 70 (28%) were 30-39 years of age at diagnosis
 - 80 (32%) were diagnosed while residing in the HHSA Central Region
 - 103 (42%) were Hispanic/Latina
- 1,403 female PLWHA in San Diego County through 12/31/2017
 - 696 (50%) were 50+ years of age
 - 465 (33%) resided in the HHSA Central Region
 - 531 (38%) were Hispanic/Latina

Females = Assigned female at birth

PLWHA = Persons Living with HIV/AIDS

Cumulative Female HIV/AIDS Diagnoses by Transmission Risk, San Diego County, 1980-2017



Diagnosis Year Groups	Transmission Risk										Total	
	Heterosexual contact		Injection Drug Use		Perinatal		Blood products		Other			
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
1980-1992	246	(47)	197	(38)	19	(4)	53	(10)	9	(2)	524	(100)
1993-1997	211	(56)	131	(35)	17	(5)	10	(3)	11	(3)	380	(100)
1998-2002	216	(64)	97	(29)	16	(5)	0	(0)	8	(2)	337	(100)
2003-2007	245	(76)	63	(19)	7	(2)	1	(0)	8	(3)	324	(100)
2008-2012	201	(74)	47	(17)	6	(2)	0	(0)	19	(7)	273	(100)
2013-2017	189	(77)	28	(11)	6	(2)	0	(0)	24	(10)	247	(100)
Total	1,308	(63)	563	(27)	71	(3)	64	(3)	79	(4)	2,085	(100)

Among females diagnosed with HIV and/or AIDS while residing in San Diego County, the most frequent transmission risk was from heterosexual contact. Over time, the number of HIV diagnoses from injection drug use has been decreasing while heterosexual contact has been increasing.

Other transmission risk includes other confirmed risks and unknown.

Cumulative Female HIV/AIDS Diagnoses by Age at Diagnosis, San Diego County, 1980-2017



Diagnosis Year Group	Age Group at Diagnosis										Total			
	Less than 13 Years		13-19 Years		20-29 Years		30-39 Years		40-49 Years				50+ Years	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
1980-1992	24	(5)	17	(3)	157	(30)	202	(39)	80	(15)	44	(8)	524	(100)
1993-1997	17	(5)	15	(4)	100	(26)	158	(42)	62	(16)	28	(7)	380	(100)
1998-2002	16	(5)	16	(5)	86	(26)	116	(34)	72	(21)	31	(9)	337	(100)
2003-2007	7	(2)	14	(4)	87	(27)	91	(28)	68	(21)	57	(18)	324	(100)
2008-2012	6	(2)	6	(2)	68	(25)	76	(28)	53	(19)	64	(23)	273	(100)
2013-2017	6	(2)	10	(4)	57	(23)	70	(28)	48	(19)	56	(23)	247	(100)
Total	76	(4)	78	(4)	555	(27)	713	(34)	383	(18)	280	(13)	2,085	(100)

Among females diagnosed with HIV and/or AIDS while residing in San Diego County, 61% were 20-39 years of age at diagnosis.

Cumulative Female HIV/AIDS Diagnoses by Race/Ethnicity, San Diego County, 1980-2017



Diagnosis Year Group	Race/Ethnicity									
	Hispanic/Latina		Non-Hispanic				Other		Total	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
1980-1992	124	(24)	250	(48)	122	(23)	28	(5)	524	(100)
1993-1997	126	(33)	132	(35)	98	(26)	24	(6)	380	(100)
1998-2002	131	(39)	90	(27)	90	(27)	26	(8)	337	(100)
2003-2007	137	(42)	79	(24)	91	(28)	17	(5)	324	(100)
2008-2012	93	(34)	87	(32)	71	(26)	22	(8)	273	(100)
2013-2017	103	(42)	71	(29)	47	(19)	26	(11)	247	(100)
Total	714	(34)	709	(34)	519	(25)	143	(7)	2,085	(100)

Among females diagnosed with HIV and/or AIDS while residing in San Diego County, 34% were Hispanic/Latina and 34% were Non-Hispanic White.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.

Cumulative Female HIV/AIDS Diagnoses by Race/Ethnicity and Transmission Risk, San Diego County, 1980-2017



Race/Ethnicity	Transmission Risk										Total	
	Heterosexual contact		Injection Drug Use		Perinatal		Blood products		Other			
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Hispanic/Latina	496	(38)	136	(24)	40	(56)	15	(23)	27	(34)	714	(34)
Non-Hispanic White	381	(29)	254	(45)	13	(18)	36	(56)	25	(32)	709	(34)
Non-Hispanic Black	336	(26)	142	(25)	14	(20)	6	(9)	21	(27)	519	(25)
Other	95	(7)	31	(6)	4	(6)	7	(11)	6	(8)	143	(7)
Total	1,308	(63)	563	(27)	71	(3)	64	(3)	79	(4)	2,085	(100)

Among females diagnosed with HIV and/or AIDS while residing in San Diego County, 63% were from heterosexual contact. Within that group, 38% were Hispanic/Latina.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.

Other transmission risk includes other confirmed risks and unknown.

Cumulative HIV/AIDS Diagnoses by Birth Sex and Age, HHS Region, and Race/Ethnicity, San Diego County, 1980-2017



Age Group at Diagnosis	Birth Sex				Total	
	Female		Male			
	No.	(%)	No.	(%)	No.	(%)
Less than 13 years	76	(4)	74	(<1)	150	(1)
13-19 years	78	(4)	370	(2)	448	(2)
20-29 years	555	(27)	6,493	(31)	7,048	(30)
30-39 years	713	(34)	8,161	(38)	8,874	(38)
40-49 years	383	(18)	4,282	(20)	4,665	(20)
50+ years	280	(13)	1,942	(9)	2,222	(10)
HHS Region at Diagnosis						
Central	793	(38)	12,051	(57)	12,844	(55)
East	260	(13)	1,469	(7)	1,729	(7)
South	375	(18)	2,584	(12)	2,959	(13)
North Coastal	238	(11)	1,472	(7)	1,710	(7)
North Inland	168	(8)	929	(4)	1,097	(5)
North Central	248	(12)	2,804	(13)	3,052	(13)
Race/Ethnicity						
Hispanic	714	(34)	5,960	(28)	6,674	(29)
Non-Hispanic White	709	(34)	11,960	(56)	12,669	(54)
Non-Hispanic Black/African American	519	(25)	2,446	(12)	2,965	(13)
Other	143	(7)	956	(5)	1,099	(5)
Total	2,085	(100)	21,322	(100)	23,407	(100)

Among all individuals diagnosed with HIV and/or AIDS, 9% were female. For both females and males, most were diagnosed when 20-39 years of age and were living in the Central Region. Females had a lower percentage of Non-Hispanic Whites than males.

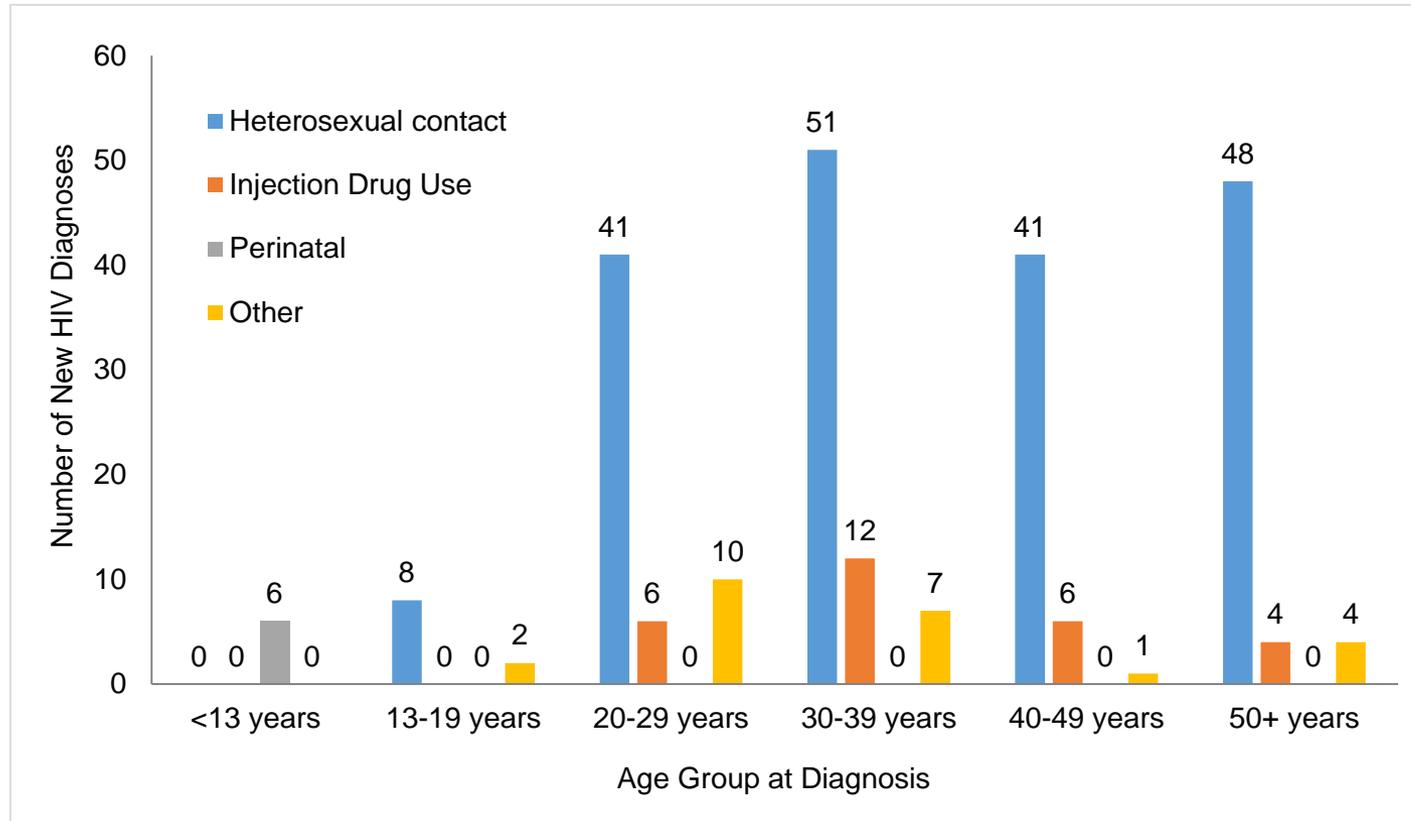
Number diagnosed with HIV and/or AIDS while residing in San Diego County.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, multiple races, and unknown.

HHS Region unknown for three females and 13 males.

Percentages may not total 100 due to rounding.

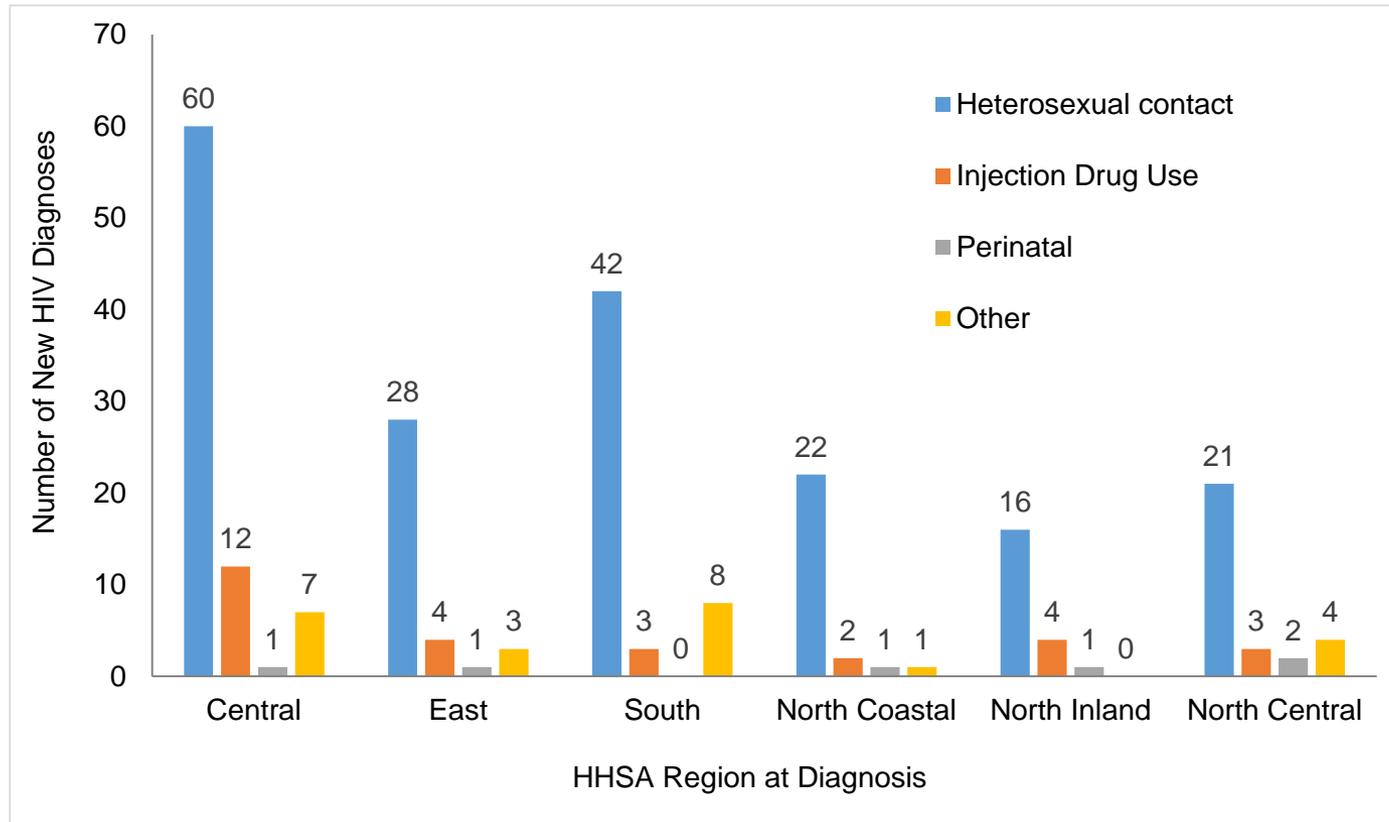
Recent Female HIV Diagnoses by Age and Transmission Risk, San Diego County, 2013-2017



Of females recently diagnosed with HIV disease, 189 (77%) were from the heterosexual contact group. Within that group, the 30-39 years age group had the highest number of recent HIV disease diagnoses.

Number diagnosed with HIV disease while residing in San Diego County.
Other transmission risk includes other confirmed risks and unknown.

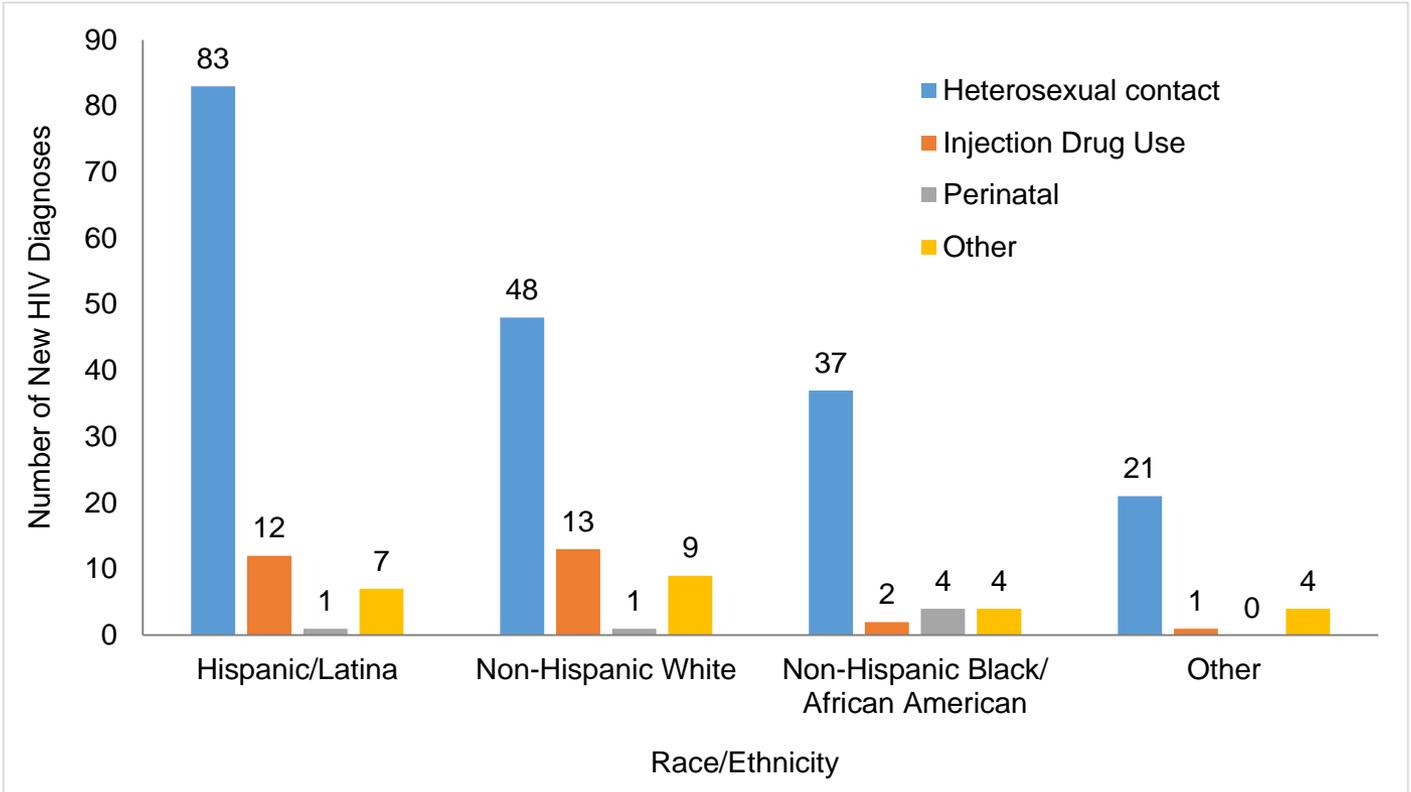
Recent Female HIV Diagnoses by HHS Region and Transmission Risk, San Diego County, 2013-2017



Across all regions, most recent female HIV diagnoses were attributed to heterosexual contact. Central Region had the largest number of recent HIV disease diagnoses.

Number diagnosed with HIV disease while residing in San Diego County.
 Region at diagnosis unknown for one case.
 Other transmission risk includes other confirmed risks and unknown.

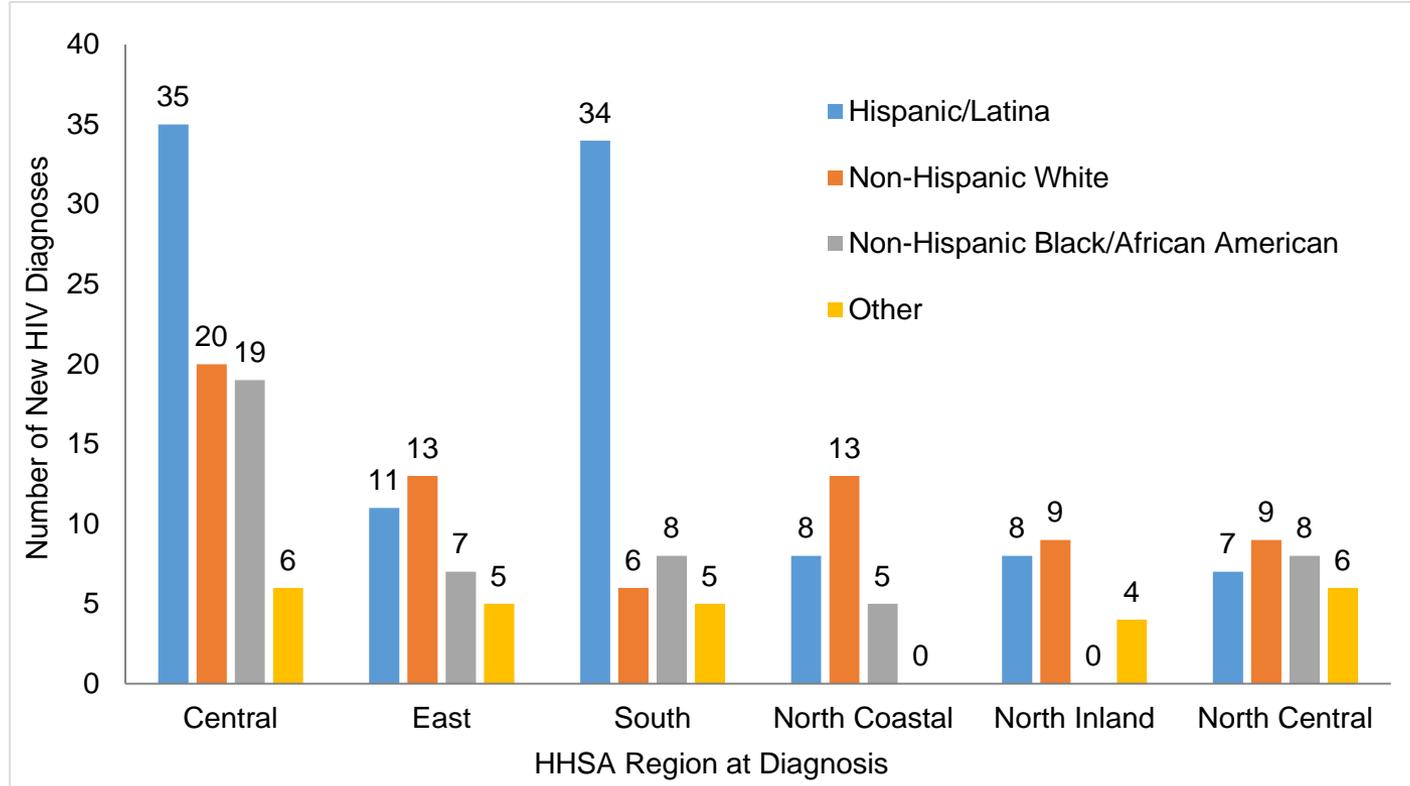
Recent Female HIV Diagnoses by Race/Ethnicity and Transmission Risk, San Diego County, 2013-2017



Of females recently diagnosed with HIV disease, 83 (34%) were Hispanic/Latina and had heterosexual contact risk. Across all races/ethnicities, heterosexual contact was the most common risk category.

Number diagnosed with HIV disease while residing in San Diego County.
 Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.

Recent HIV Diagnoses Among Females by HHS Region and Race/Ethnicity, San Diego County, 2013-2017



The largest number of recent female HIV diagnoses was among Hispanic/Latinas in the Central and South Regions, whereas in the East, North Coastal, North Inland, and North Central Regions, the largest number was among Non-Hispanic Whites.

Number diagnosed with HIV disease while residing in San Diego County.
 Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.
 Region at diagnosis unknown for one case.

Recent HIV Diagnoses by Birth Sex and Age, HHS Region, and Race/Ethnicity, San Diego County, 2013-2017



Age Group at Diagnosis	Birth Sex								
	Female			Male			Total		
	No.	(%)	Rate	No.	(%)	Rate	No.	(%)	Rate
Less than 13 years	6	(2)	2.3	1	(<1)	0.4	7	(<1)	1.3
13-19 years	10	(4)	7.2	43	(2)	28.4	53	(2)	18.2
20-29 years	57	(23)	22.5	799	(37)	268.1	856	(36)	155.4
30-39 years	70	(28)	30.8	605	(28)	252.3	675	(28)	144.4
40-49 years	48	(19)	22.8	377	(18)	178.9	425	(18)	100.9
50+ years	56	(23)	10.5	327	(15)	69.4	383	(16)	38.1
HHS Region at Diagnosis									
Central	80	(32)	33.4	948	(44)	367.9	1,028	(43)	206.7
East	36	(15)	14.8	204	(10)	86.5	240	(10)	50.1
South	53	(22)	21.2	433	(20)	174.3	486	(20)	97.6
North Coastal	26	(11)	9.7	161	(8)	58.2	187	(8)	34.4
North Inland	21	(9)	6.9	120	(6)	40.5	141	(6)	23.5
North Central	30	(12)	9.4	285	(13)	87.4	315	(13)	48.9
Race/Ethnicity									
Hispanic/Latino	103	(42)	18.9	961	(45)	179.2	1,064	(44)	98.3
Non-Hispanic White	71	(29)	9.5	761	(35)	97.3	832	(35)	54.5
Non-Hispanic Black/African American	47	(19)	65.8	247	(12)	292.6	294	(12)	188.7
Other	26	(11)	9.9	183	(9)	76.8	209	(9)	41.8
Total	247	(100)	15.2	2,152	(100)	131.1	2,399	(100)	73.5

Among all individuals recently diagnosed with HIV disease, 10% were female. For both females and males, higher percentages were diagnosed when 20-39 years of age, lived in the Central Region, and were Hispanic/Latino. Non-Hispanic Black/African American female cases had significantly higher rates than all other female race/ethnicity groups. Hispanic/Latino females had significantly higher rates than Non-Hispanic White and Other race/ethnicity female cases.

Number diagnosed with HIV disease while residing in San Diego County.

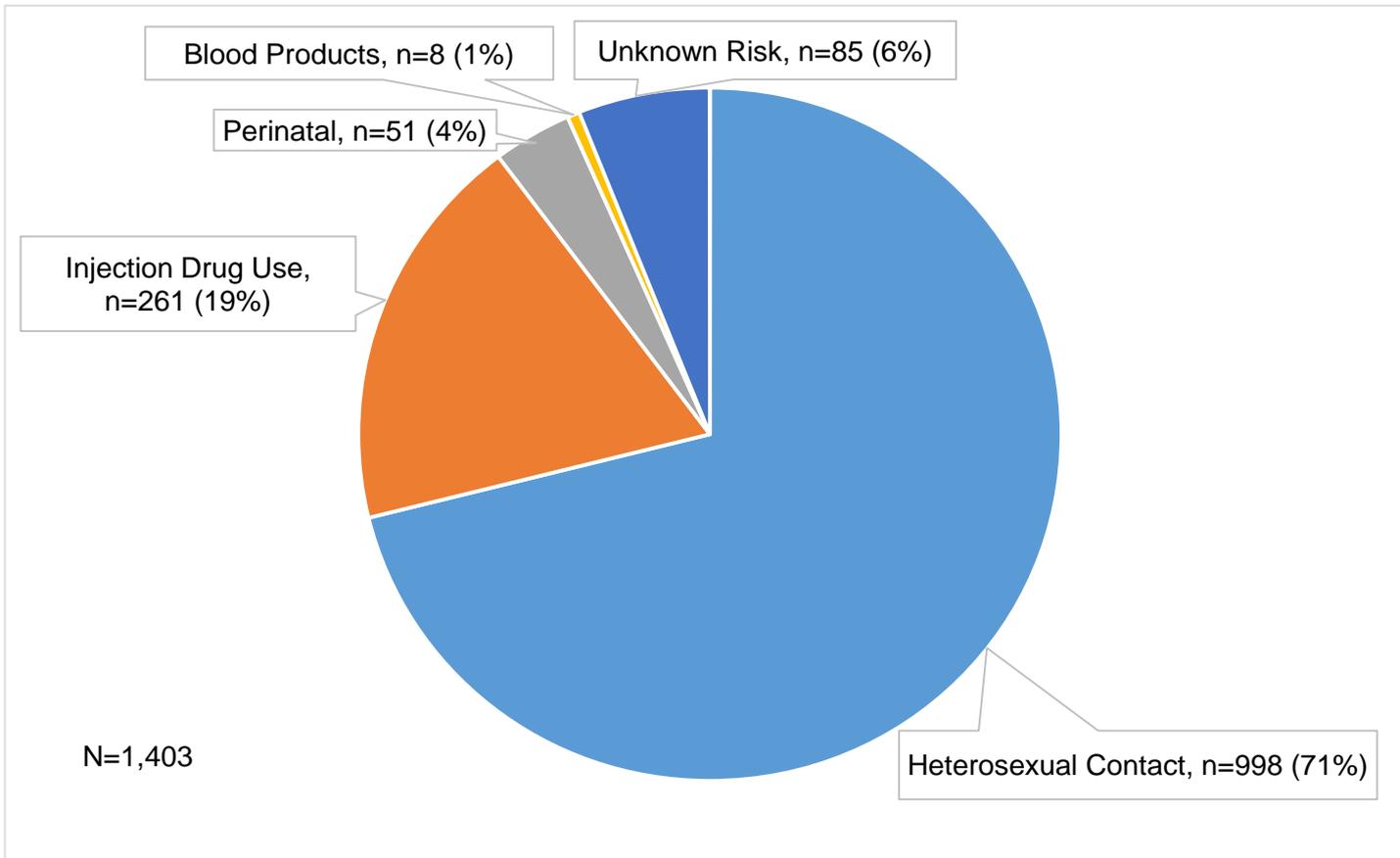
5-Year rates per 100,000. Rates calculated using 2015 population data from SANDAG.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, multiple races, and unknown.

HHS Region unknown for one female and one male.

Percentages may not total 100 due to rounding. Significance is at p<0.05.

Female PLWHA by Transmission Risk, San Diego County, 2017

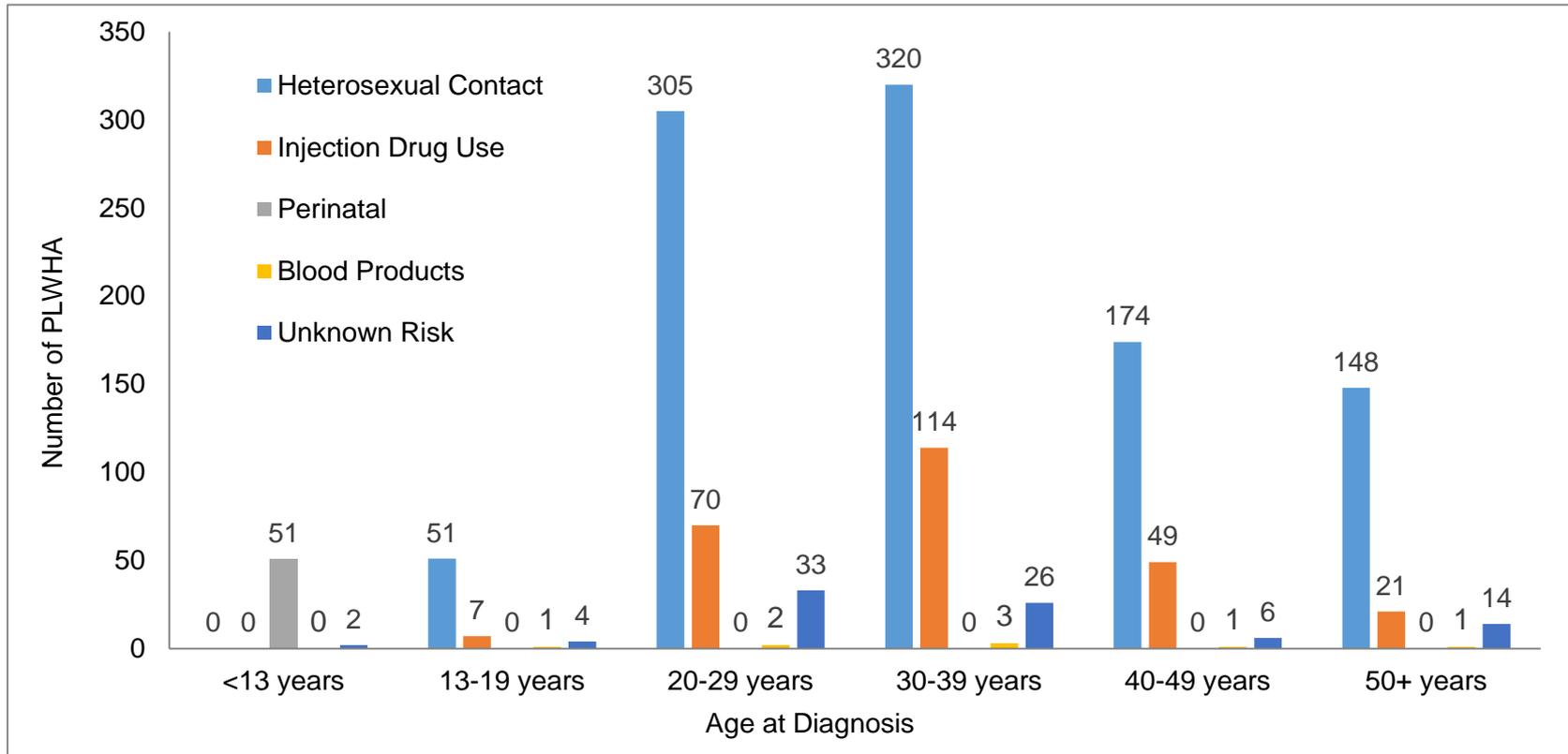


Among female PLWHA, the most frequent transmission risk was from heterosexual contact.

Female PLWHA through 12/31/2017, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

Percentages may not total 100 due to rounding.

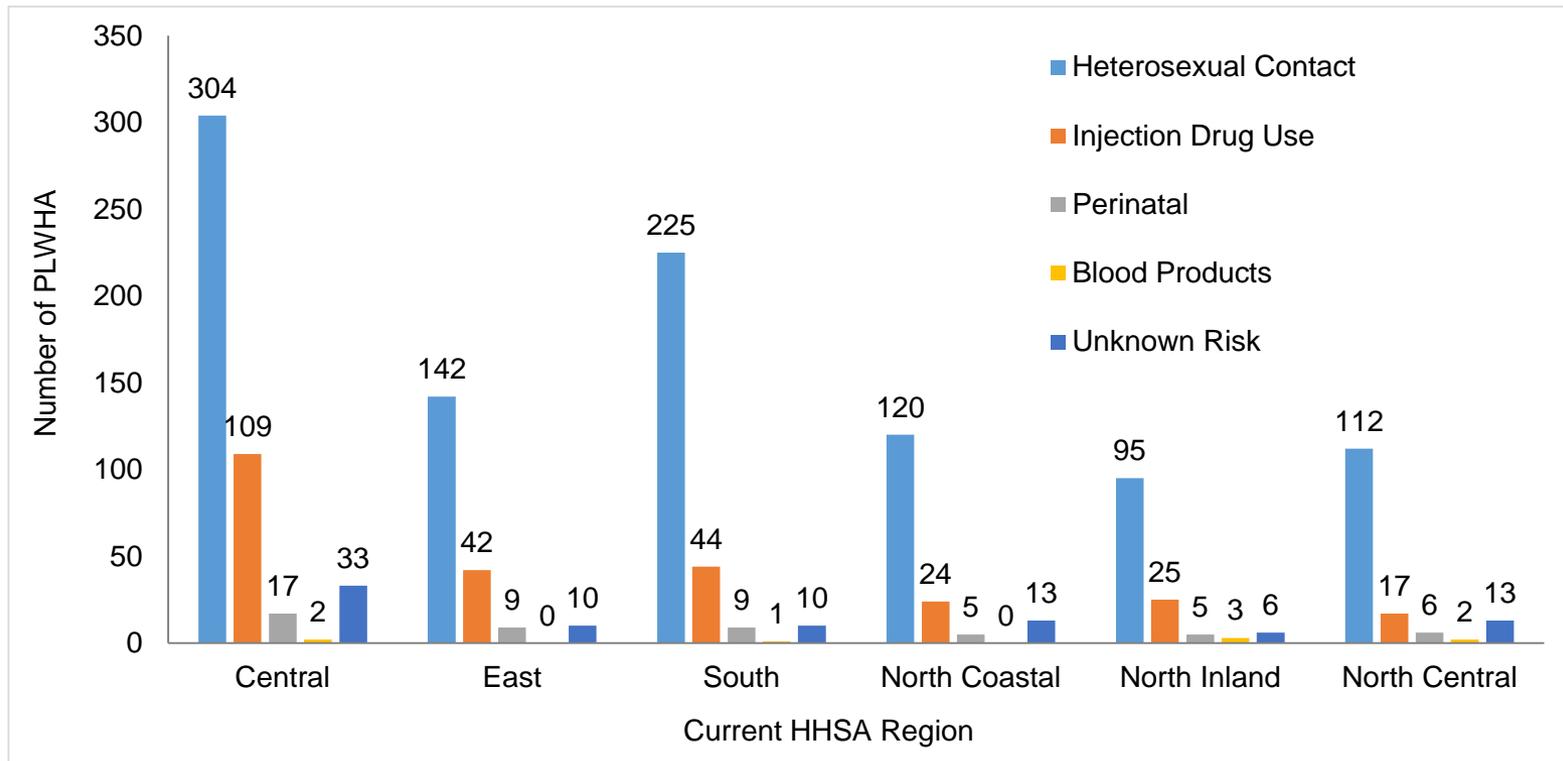
Female PLWHA by Age at Diagnosis and Transmission Risk, San Diego County, 2017



Of female PLWHA, 45% were diagnosed at 20-39 years of age and had heterosexual contact risk.

Female PLWHA through 12/31/2017, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

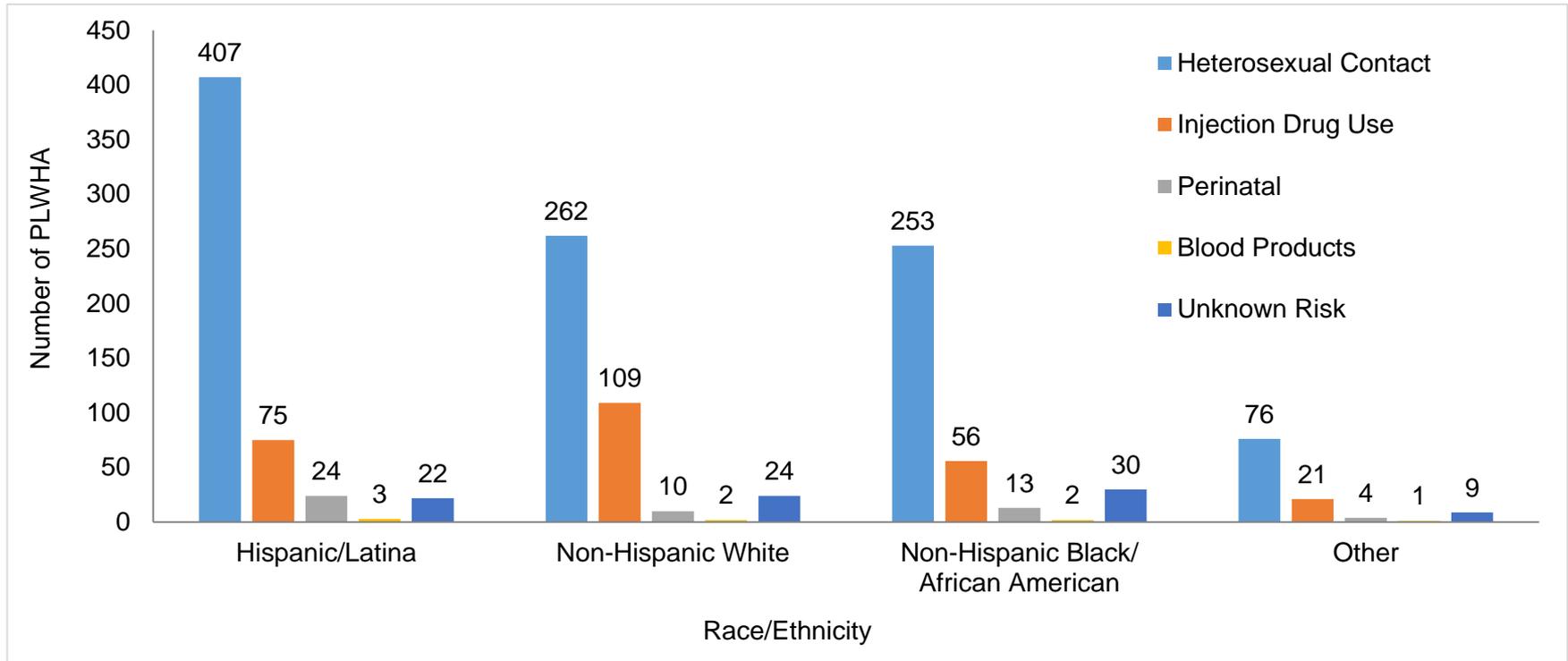
Female PLWHA by Current HHSA Region and Transmission Risk, San Diego County, 2017



In San Diego County, 71% of female PLWHA were attributed to heterosexual contact risk. Central Region had 33% of all female PLWHA.

Female PLWHA through 12/31/2017, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

Female PLWHA by Race/Ethnicity and Transmission Risk, San Diego County, 2017



Across all female PLWHA, 29% were Hispanic/Latina and had heterosexual contact risk. Across all races/ethnicities, heterosexual contact was the most common risk category.

Female PLWHA through 12/31/2017, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.

PLWHA by Birth Sex and Race/Ethnicity, Age, and HHS Region, San Diego County, 2017



Current Age Group	Birth Sex						Total		
	Female			Male					
	No.	(%)	Rate	No.	(%)	Rate	No.	(%)	Rate
Less than 13 years	10	(1)	3.9	8	(<1)	3.0	18	(<1)	3.4
13-19 years	13	(1)	9.4	21	(<1)	14.1	34	(<1)	11.8
20-29 years	85	(6)	33.7	841	(7)	281.9	926	(7)	168.1
30-39 years	226	(16)	98.1	2,035	(16)	831.9	2,261	(16)	475.9
40-49 years	373	(27)	178.2	2,856	(23)	1,363.7	3,229	(23)	771.2
50+ years	696	(50)	127.7	6,712	(54)	1,391.9	7,408	(53)	721.0
Current HHS Region									
Central	465	(33)	192.5	6,451	(52)	2,484.2	6,916	(50)	1,379.9
East	203	(15)	83.2	996	(8)	420.2	1,199	(9)	249.2
South	289	(21)	115.1	1,953	(16)	781.5	2,242	(16)	447.4
North Coastal	162	(12)	60.1	912	(7)	327.2	1,074	(8)	195.9
North Inland	134	(10)	43.6	620	(5)	207.9	754	(5)	124.5
North Central	150	(11)	46.7	1,538	(12)	465.8	1,688	(12)	259.2
Race/Ethnicity									
Hispanic/Latino	531	(38)	95.9	4,337	(35)	796.3	4,868	(35)	443.1
Non-Hispanic White	407	(29)	54.9	6,008	(48)	769.9	6,415	(46)	421.5
Non-Hispanic Black/African American	354	(25)	493.5	1,467	(12)	1,721.9	1,821	(13)	1,160.4
Other	111	(8)	41.5	661	(5)	271.3	772	(6)	151.0
Total	1,403	(100)	85.8	12,473	(100)	754.2	13,876	(100)	421.9

Over half of PLWHA were 50+ years of age and half lived in the Central Region. For females, the largest number by race/ethnicity was Hispanic/Latina (38%), while for males it was Non-Hispanic Whites (48%). For females and males, Non-Hispanic Black/African American cases had significantly higher rates than all other race/ethnicity groups. Hispanic/Latino females had significantly higher rates than Non-Hispanic White and Other race/ethnicity female cases.

PLWHA through 12/31/2017, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

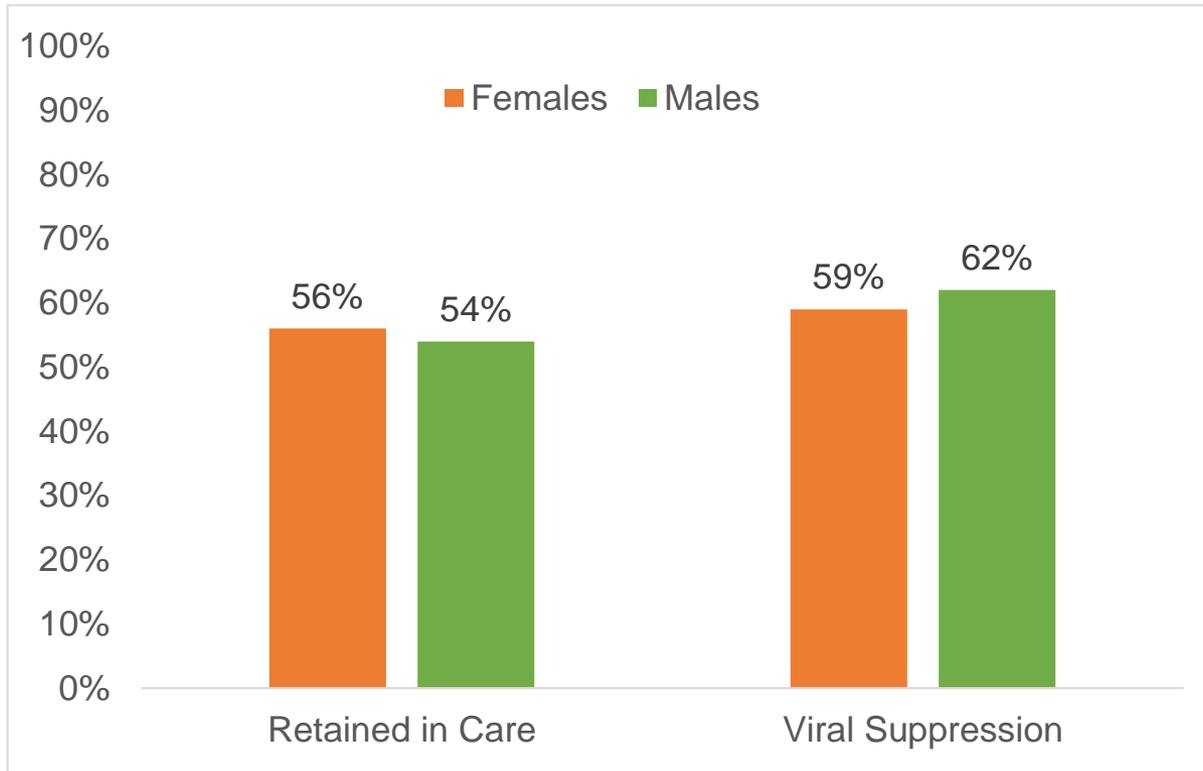
Rates per 100,000. Rates calculated using 2016 population data from SANDAG.

HHS Region unknown for three males.

Other race/ethnicity includes Non-Hispanic American Indian/Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and multiple races.

Percentages may not total 100 due to rounding. Significance is at $p < 0.05$.

Retained in Care and Viral Suppression, San Diego County, 2017



Males and females share similar percentages for retained in care and viral suppression.

PLWHA diagnosed with HIV infection through 12/31/2016 and living through 12/31/2017, excluding military diagnoses, last known to reside in San Diego County, regardless of residence at HIV and/or AIDS diagnoses.

Retained in Care defined as \geq two CD4 or viral load tests at least three months apart during calendar year 2017.

Viral suppression defined as <200 copies/mL at most recent test during calendar year 2017.

Appendix 1: Definitions and Acronyms



Female: Female sex at birth

Male: Male sex at birth

Transmission Risk: The way in which a communicable disease is passed from one person to another. In describing HIV, it identifies how an individual may have been exposed to HIV, such as having injected drugs, or homosexual or heterosexual contact.

PLWHA: People Living with HIV/AIDS

Year of Diagnosis: The earliest known year in which an individual met the CDC case definition for HIV disease

Appendix 2: HHSA Regions and Zip Codes



Central: 92101, 92102, 92103, 92104, 92105, 92113, 92114, 92115, 92116, 92134, 92136, 92139, and 92182.

East: 91901, 91905, 91906, 91916, 91917, 91931, 91934, 91935, 91941, 91942, 91945, 91948, 91962, 91963, 91977, 91978, 91980, 92019, 92020, 92021, 92040, and 92071.

North Central: 92037, 92093, 92106, 92107, 92108, 92109, 92110, 92111, 92117, 92119, 92120, 92121, 92122, 92123, 92124, 92126, 92130, 92131, 92140, 92145, and 92161.

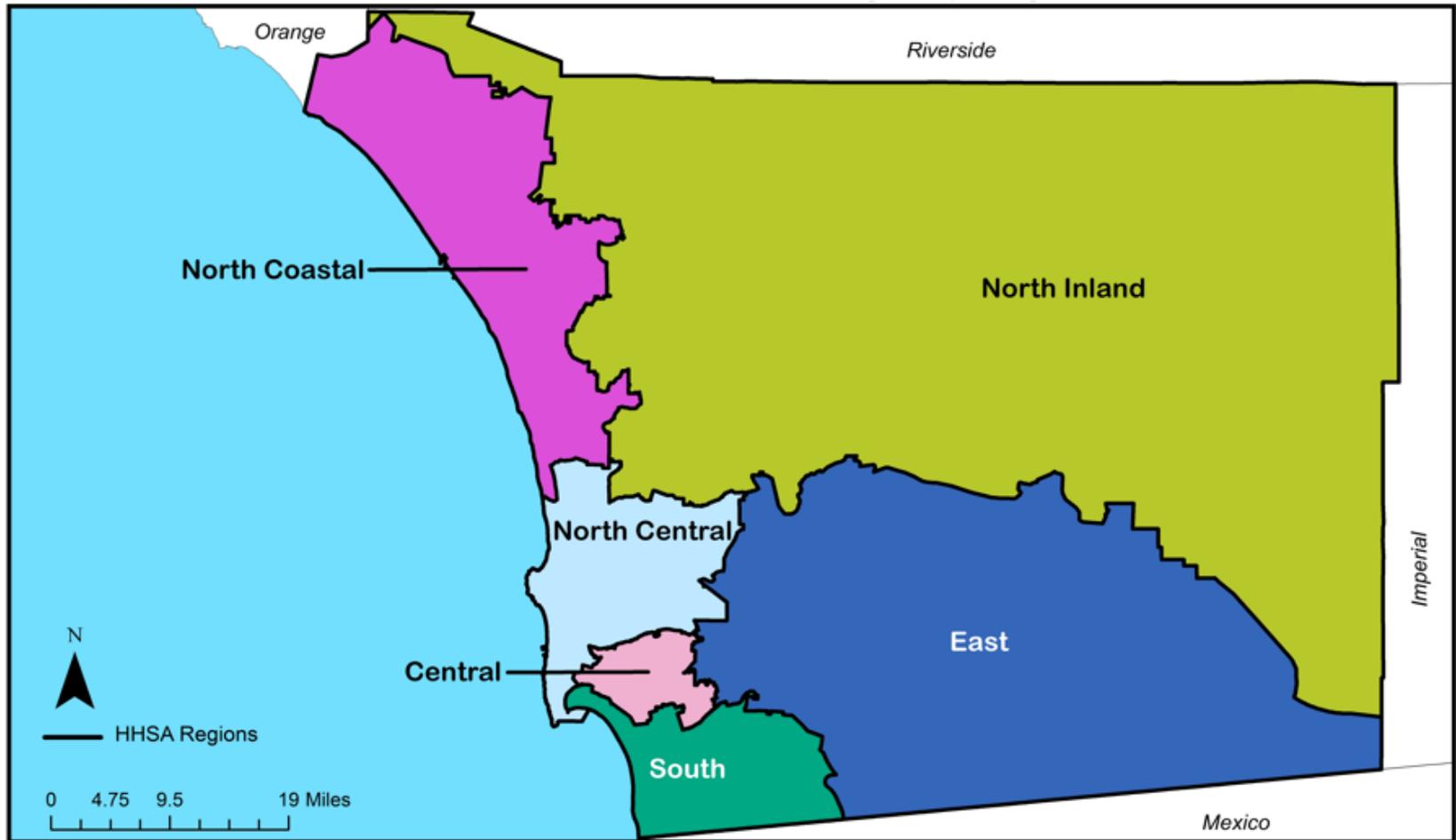
North Coastal: 92007, 92008, 92009, 92010, 92011, 92014, 92024, 92054, 92055, 92056, 92057, 92058, 92067, 92075, 92081, 92083, 92084, 92091, and 92672.

North Inland: 92003, 92004, 92025, 92026, 92027, 92028, 92029, 92036, 92059, 92060, 92061, 92064, 92065, 92066, 92069, 92070, 92078, 92082, 92086, 92096, 92127, 92128, 92129, 92259, and 92536.

South: 91902, 91910, 91911, 91913, 91914, 91915, 91932, 91950, 92118, 92135, 92154, 92155, and 92173.

P.O. boxes incorporated in enclosing zip codes. For homeless cases, zip code of facilities reporting HIV disease diagnosis is used. Version 6.21.2018.

Appendix 3: Map of HHS A Regions



HHS A region layer from SanGIS.
Map Date: 05.18.2018
County of San Diego, HHS A, Epidemiology Program



CONTACT INFORMATION



Epidemiology & Immunization Services
HIV Epidemiology Unit (HEU)
3851 Rosecrans Street, MS P577
San Diego, CA 92110

Phone: (619) 692-8545
Fax: (619) 692-8427

www.sdhivaid.org



On May 17, 2016, the County of San Diego Health and Human Services Agency Division of Public Health Services received accreditation from the Public Health Accreditation Board.