



**2010-2014 HIV & STD Burden
by Health District**

Guide to the Health District Profiles



- **Goal:** Update the syndemic cluster analysis from 2009 and address limitations and challenges in this iteration.
- **Primary purpose:** Support geographic prioritization of DHSP resources.
- **Audience:** Planning agencies, Funders, Agencies seeking funding
- **Guiding principle:** A working assumption is to place emphasis on HIV and reduced acquisition and transmission of STDs we monitor based on acuteness of symptoms. Accordingly, weighted consideration was given in the following order: HIV, syphilis, gonorrhea and chlamydia.

2009 Syndemic Cluster Analysis Challenges

- Used 1 year of data which may not be representative of recent trends.
- Difficulty translating data to community and providers into a service delivery format.
- Service providers looked at the clusters and questioned the boundaries.
- Translating the magnitude of burden between clusters.
- Data could not be matched. Person-level infections could not be determined.
- Missing portions of LA County.

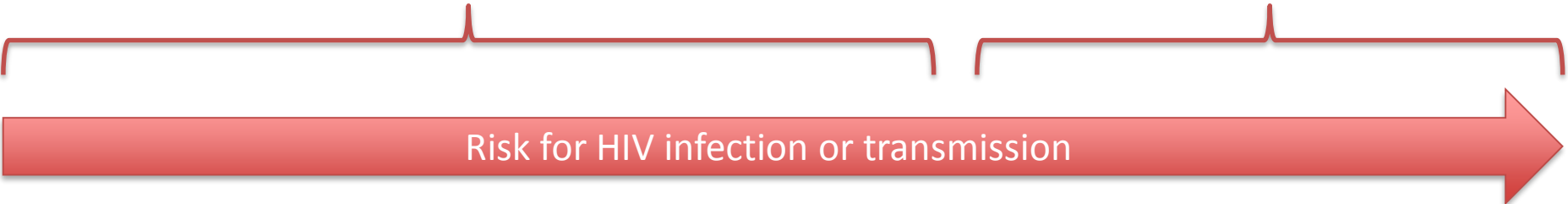
Health District Profiles & Supporting Maps

- 5 years of data – Averages spikes from any given year.
- Health Districts - Recognizable boundaries which align with census tracts to retrieve population-level data.
- LA Times Neighborhoods – Overlaid boundaries to provide context.
- Rank – Summary measure incorporating driving geographic factors.
- Matched data – Person-level sociodemographics, behaviors, infections; Co-infections; Recurrent infections.
- All of LA County included – Access to City of Long Beach and City of Pasadena data.



2010-2014 STD Diagnoses

2010-2014 HIV Diagnoses



All Others

MSM

Recurrent infection/
Co-infection

HIV
Comorbidity

All Others

White

Latino

Black

Single
infection
OR
CT>1

+GC / SY>1
OR
+SY / GC>1
OR
+SY / +GC / CY>1

Persons
Living with
HIV,
as of
8/29/16

American Indians/Alaskan Natives*
71 per 100,000

African Americans
47 per 100,000 persons

Latinos
18 per 100,000 persons

Whites
14 per 100,000 persons

*Small cell sizes precluded data shared at the census tract level.

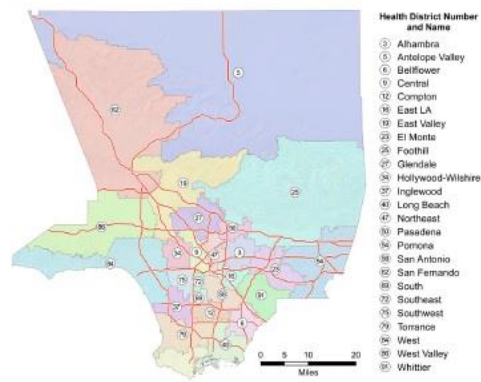


Los Angeles County Overview



Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

Los Angeles County



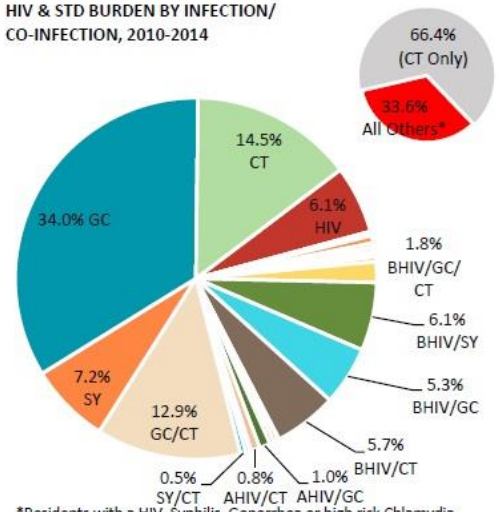
This overview of the 2010-2014 HIV & STD Burden by Health District summarizes surveillance data for HIV, Syphilis and Gonorrhea during the 5-year period, accounting for each person with a diagnosis in Los Angeles County, Long Beach or Pasadena.

Average infections per infected person¹ **1.53**

Average infections per year per square mile¹ **4.76**

ALL HIV & STD INCIDENTS ²	
Rate Per 100,000 Person-Years	Los Angeles County (LAC) Rate
HIV, 2010-2014	19
Syphilis, 2010-2014	32
Gonorrhea, 2010-2014	112
Chlamydia, 2010-2014 ³	461

HIV & STD BURDEN BY INFECTION/CO-INFECTION, 2010-2014



*Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from the larger pie chart and data shown "among infected persons".

INFECTION CHARACTERISTICS AMONG INFECTED PERSONS ¹	
N	% of LAC Total
Infections & Co-infections ⁴	97,211 100.0%
Incidents Represented ²	
HIV Incidents	9,652 100.0%
Syphilis Incidents	16,148 100.0%
Gonorrhea Incidents	55,606 100.0%
Chlamydia Incidents	37,078 100.0%

ACRONYMS
 SY = Syphilis GC = Gonorrhea CT = Chlamydia
 PLWH (+ STD) = Persons living with HIV who had an STD in 2010-2014 or were diagnosed with HIV in 2010-2014
 AHIV = Acquired HIV 30 days or more after STD infection
 BHIV = Acquired HIV 30 days or more before STD infection
 WHIV = HIV co-infected at time of STD infection (within +/- 30 days)
 LAC = Los Angeles County
 % of LAC = (# in Health District w/characteristic ÷ Total LAC)
 LAC % = (# in LAC w/characteristic ÷ Total LAC)

Count of infected persons PLWH (+ STD): **18,037**
 STD Only: **45,460**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ¹		
	N	% of LAC Total
Residents Represented ⁵	63,497	100.0%
Current Gender ⁶		
Male	44,243	69.7%
Female	19,007	29.9%
Transgender	195	0.3%
Transgender M-F	149	0.2%
Transgender F-M	17	0.0%
Race/Ethnicity ⁶		
White	13,215	20.8%
African American	18,718	29.5%
Latino	24,176	38.1%
Asian	2,246	11.6%
AI/AN ⁷	196	3.5%
NHOPI ⁷	187	0.3%
Select Populations		
MSM/MSMW	24,354	38.4%
Youth (15-19 years) ⁸	8,494	13.4%
Youth (15-24 years) ⁸	24,331	38.3%
Pregnant ⁸	2,763	4.4%
Syphilis Stage (if any) ⁸		
Early Syphilis ⁹	8,867	14.0%
Congenital Syphilis	70	0.1%

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Los Angeles County



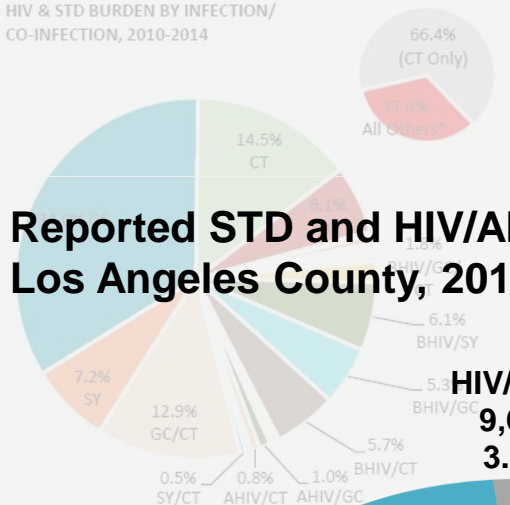
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Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

HIV & STD BURDEN BY INFECTION/CO-INFECTION, 2010-2014

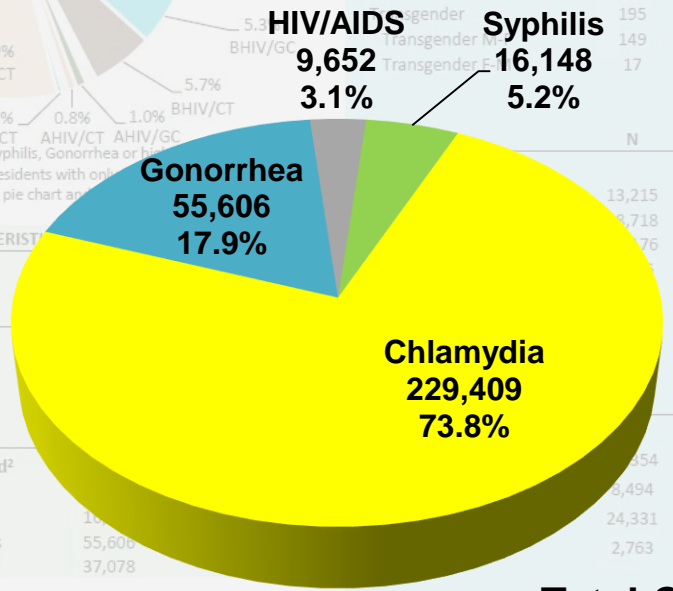


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LAC		%
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Female	19,007	29.9%
Transgender	195	0.3%
Transgender M	149	0.2%
Transgender F	17	0.0%
LAC		%
	N	%
	13,215	20.8%
	17,718	29.5%
	1,766	38.1%
	76	11.6%
	76	3.5%
	76	0.3%
LAC		%
	13,215	38.4%
	8,494	13.4%
	24,331	38.3%
	2,763	4.4%

Reported STD and HIV/AIDS Cases, Los Angeles County, 2010-2014



INFECTION CHARACTERISTICS

*Residents with a HIV, Syphilis, Gonorrhea or Chlamydia incident in 2010-2014. Residents with only HIV/AIDS incident excluded from the larger pie chart and are included in this table.

Infections & Co-infections ⁴	N	%
HIV/AIDS	9,652	3.1%
Syphilis	16,148	5.2%
Gonorrhea	55,606	17.9%
Chlamydia	229,409	73.8%

Incidents Represented ²	N	%
HIV Incidents	18,037	13.4%
Syphilis Incidents	16,148	38.3%
Gonorrhea Incidents	55,606	4.4%
Chlamydia Incidents	37,078	

ACRONYMS
 SY = Syphilis GC = Gonorrhea CT = Chlamydia
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Total Cases = **310,815**

Syphilis Stage (if any) ⁸	N	%
Early Syphilis ⁹	8,867	14.0%
Congenital Syphilis	70	0.1%

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Los Angeles County Overview – Accounting for Co-infection (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



Los Angeles County

Chlamydia included if a person had a HIV, syphilis or gonorrhea incident in 2010-2014 or diagnosed HIV infection as of 8/29/16.

Not the same as "CT Only" which reflects residents with 1+ chlamydia incidents and no other STDs.

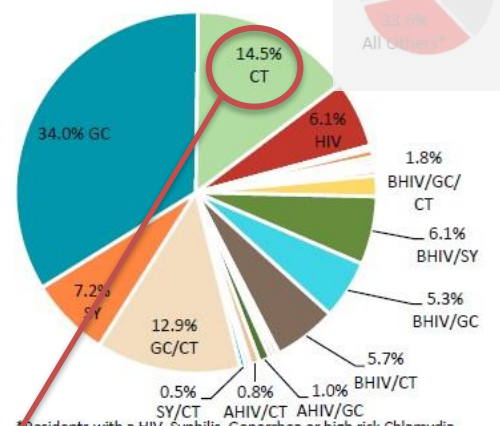


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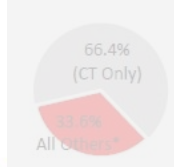
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HIV & STD BURDEN BY INFECTION/CO-INFECTION, 2010-2014



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There are 29 combinations of co-infection. This pie chart shows the majority of those listed.

All add up to 100%.

¹Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from the larger pie chart and data shown "among infected persons".

INFECTION CHARACTERISTICS AMONG INFECTED PERSONS ¹		
	N	% of LAC Total
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	N	LAC %
Current Gender ⁶		
For example, Gonorrhea and Chlamydia co-infection comprised 12.9% of infections reported in 2010-2014 among LAC residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014.		
18.9%+ of infections reported in 2010-2014 among LAC residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident were from persons already infected w/HIV .		
Pregnant ⁸	2,763	4.4%
Syphilis Stage (if any) ⁸		
Early Syphilis ⁹	8,867	14.0%
Congenital Syphilis	70	0.1%

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Los Angeles County Overview – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



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Los Angeles County



This overview of the 2010-2014 HIV & STD Burden by Health District summarizes surveillance data for HIV, Syphilis and Gonorrhea during the 5-year period, accounting for each person with a diagnosis in Los Angeles County, Long Beach or Pasadena.

How many people in LAC w/HIV had an STD and/or were diagnosed with HIV from 2010-2014?

18,037 LAC residents OR

28.4% of LAC residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 OR

8.1% of LAC residents with a HIV, syphilis, gonorrhea and/or chlamydia incident in 2010-2014 OR

Roughly 0.2% of the total population, not accounting for migration

Count PLWH (+ STD): **18,037**
of infected persons STD Only: **45,460**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS¹

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Residents Represented ⁵	63,497	100.0%

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Youth (15-24 years) ⁸	24,331	38.3%
Pregnant ⁸	2,763	4.4%

	N	LAC %
Syphilis Stage (if any)⁸		
Early Syphilis ⁹	8,867	14.0%
Congenital Syphilis	70	0.1%

Total LAC Residents with either HIV, syphilis, gonorrhea or chlamydia incident (includes CT only): 223,982

ALL HIV & STD INCIDENTS ²	Los Angeles County
Rate Per 100,000 Person-Years	Rate

These are time-sensitive, and reflect status as of the incident date.

Gray column %:
____% of LAC residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 were/had _____.

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Los Angeles County Overview – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



14,079 LAC residents had a syphilis incident between 2010-2014.

780 LAC residents were infected with gonorrhea 4 or more times between 2010-2014.

Gray column %s:
____% of LAC residents with a HIV, syphilis, gonorrhea, and/or high risk chlamydia incident in 2010-2014 were/had _____.

IMPORTANT!!
Ns and LAC% cannot be added down columns

Acute HIV infection

	N	LAC %
Recurrent STD Infections		
Syphilis (SY)		
1 incident	12,385	9.5%
2 incidents	1,372	2.2%
3 incidents	276	0.4%
4 or more	46	0.1%
Gonorrhea (GC)		
1 incident	37,839	59.6%
2 incidents	5,152	8.1%
3 incidents	1,249	2.0%
4 or more	780	1.2%
Chlamydia (CT)		
1 incident	16,232	25.6%
2 incidents	5,053	8.0%
3 incidents	1,874	3.0%
4 or more	1,096	1.7%

	N	LAC %
Infection & Co-infection Combinations^{4,8,10}		
Acquired HIV Infection After STD		
SY, GC, CT	30	0.0%
SY, GC	53	0.1%
SY, CT	51	0.1%
GC, CT	309	0.5%
Syphilis (SY)	343	0.5%
Gonorrhea (GC)	713	1.1%
Chlamydia (CT)	610	1.0%
No HIV Infection		
SY, GC, CT	133	0.2%
SY, GC	351	0.6%
SY, CT	463	0.7%
GC, CT	11,664	18.4%
Syphilis (SY)	6,753	10.6%
Gonorrhea (GC)	29,177	46.0%
Chlamydia (CT)	9,769	15.4%

1.1% of LAC residents with a HIV, syphilis, gonorrhea and or high risk chlamydia incident in 2010-2014 became infected with HIV after having gonorrhea.

Roughly 48.0% of LAC residents with a syphilis incident in 2010-2014 had no other STD co-infections. (Calculation: 6,753/14,079)*

38.7% (n=3,740) of LAC residents diagnosed with HIV during the 2010-2014 time period also had STDs during that same time period. (Calculation: 1-(5,912/9,652))

193 residents infected with HIV had 1 or more syphilis, gonorrhea and chlamydia co-infections during the 5-year period

Indentation indicates that the characteristic is a subset of the characteristic above it.

	N	LAC %
Infection & Co-infection Combinations^{4,8,10}		
HIV Infection Only	5,912	9.3%
Co-Infected w/HIV		
SY, GC, CT	50	0.1%
SY, GC	65	0.1%
SY, CT	80	0.1%
GC, CT	184	0.3%
Syphilis (SY)	628	1.0%
Gonorrhea (GC)	372	0.6%
Chlamydia (CT)	353	0.6%
Acquired HIV Infection Before STD	193	0.3%
SY, GC, CT	293	0.5%
SY, GC	387	0.6%
SY, CT	387	0.6%
GC, CT	1,490	2.3%
Syphilis (SY)	4,863	7.7%
Gonorrhea (GC)	3,750	5.9%
Chlamydia (CT)	4,030	6.3%

Suggested Citation: Division of HIV and STD Programs, Los Angeles County Department of Public Health. 2010-2014 HIV & STD Burden by Health District. <http://publichealth.lacounty.gov/dhsp/Mapping.htm>. Published May 2017. Accessed [date].

Los Angeles County Overview – Population Demographics



RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS¹

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Syphilis (SY)	4,863	7.7%
Gonorrhea (GC)	3,750	5.9%
Chlamydia (CT)	4,030	6.3%

- ¹ Residents with only Chlamydia incidents are excluded for all data shown "among infected persons".
- ² Consists of reported incidents during the 2010-2014 period without regard to other co-infections.
- ³ Residents with only Chlamydia incidents are included in the rate calculation.
- ⁴ Co-infection is defined as occurring within +/- 30 days of the HIV or STD incident.
- ⁵ Resident status is determined by the latest address on file across all data.
- ⁶
- ⁷
- ⁸
- ⁹ Early Syphilis includes all cases staged as primary, secondary, or early latent.
- ¹⁰
- ¹¹

26.4% of LAC residents were at or below 133% of the federal poverty level (FPL).

In 2014, 10.1% of LAC residents who are below 200% of the federal poverty level were eligible for Medi-Cal.

POPULATION DEMOGRAPHICS, 2014

	N	LAC %
Sex		
Male	4,966,453	49.3%
Female	5,102,583	50.7%
Age		
0-12	1,669,604	16.6%
13-19	978,339	9.7%
20-29	1,544,145	15.3%
30-39	1,445,596	14.4%
40-49	1,410,564	14.0%
50-59	1,308,344	13.0%
60+	1,712,444	17.0%
Race/Ethnicity		
White	2,856,516	28.4%
African American	867,357	8.6%
Latino	4,854,739	48.2%
Asian	1,445,737	14.4%
AI/AN	20,054	0.2%
NHOPI	24,633	0.2%
Poverty Level		
100% FPL	1,823,180	18.1%
130% FPL	2,600,108	25.8%
133% FPL	2,654,921	26.4%
200% FPL	4,068,761	40.4%
Insurance Status		
Medi-Cal Eligible		
↓ 200% FPL ¹¹	1,019,394	10.1%
Medically Uninsured	1,771,204	17.0%

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2010-2014 HIV & STD Burden by Health District – At a Glance





2010-2014 HIV & STD Burden by Health District - At a Glance*

Health District Rank ¹ (Out of 26)	Health District Name	Health District Number	HIV		Syphilis		Gonorrhea		Number of Residents ³	Number of Infections & Co-Infections ⁴	Average Infections per year per square mile*
			Incident Count	Rate ²	Incident Count	Rate ²	Incident Count	Rate ²			
1	Hollywood-Wilshire	34	1,755	72	3,405	140	9,230	380	9,715	16,726	105.19
2	South	69	320	34	439	46	3,018	318	3,080	5,137	94.79
3	Southwest	75	642	34	1,129	60	5,379	285	5,670	9,136	70.02
4	Central	9	1,162	68	1,726	102	4,054	239	5,121	7,877	48.55
5	Southeast	72	219	26	404	47	1,418	165	1,677	2,545	62.11
6	Inglewood	37	449	22	671	33	3,762	183	3,891	6,147	32.54
7	Compton	12	267	19	422	30	2,359	167	2,507	3,880	29.82
8	Long Beach	40	761	32	942	40	2,234	95	3,280	4,482	17.37
9	Northeast	47	312	20	622	41	1,572	103	1,917	2,883	21.05
10	East Valley	19	403	18	838	38	2,270	102	2,694	4,116	4.29
11	Antelope Valley	5	192	10	244	13	1,847	95	1,942	2,984	0.43
12	San Antonio	58	298	14	529	25	1,555	74	2,005	2,881	15.97
13	East LA	16	140	14	275	27	764	75	949	1,317	11.24
14	West	84	456	14	731	23	2,667	83	2,995	4,406	4.65
15	Harbor	31	116	11	173	17	703	69	842	1,161	1.32
16	West Valley	86	533	12	912	21	2,962	68	3,564	5,106	5.08
17	Bellflower	6	197	11	282	16	1,200	67	1,388	1,992	10.22
18	Whittier	91	170	11	293	18	988	62	1,155	1,677	5.53
19	El Monte	23	193	9	366	17	1,215	56	1,494	2,070	6.70
20	Pomona	54	210	8	389	14	1,541	57	1,808	2,478	3.68
21	Torrance	79	179	8	232	10	1,370	60	1,475	2,162	6.44
22	Glendale	27	136	8	261	15	873	51	997	1,463	4.87
23	Foothill	25	133	9	203	13	738	48	900	1,227	0.45
24	Pasadena	50	97	14	103	15	257	36	401	525	4.30
25	Alhambra	3	141	8	283	16	578	34	863	1,113	5.69
26	San Fernando	62	171	7	274	11	1,052	42	1,167	1,721	0.58

*Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from all data shown. The top 10 health districts for each characteristic are shaded in red.

¹ Rank is based on results from the hot spot analyses, the number of infections and number of people with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident during the 2010-2014 period, relative to other health districts. It adjusts for population and geographic size.

² Consists of reported incidents during the 2010-2014 period without regard to other co-infections.

³ Resident status is determined by the latest address on file across all data sources.

⁴ Co-infection is defined as occurring within +/- 30 days of the HIV or STD incident.



2010-2014 HIV & STD Burden by Health District - At a Glance*

Health District Rank ¹ (Out of 26)	Health District Name	Health District Number	Transgender ²	Race ²			MSM/MSMW	Pregnant	Disease		
				White	Black	Latino			HIV	Syphilis	Gonorrhea
				Person Count							
1	Hollywood-Wilshire	34	53	4,367	1,197	2,830	6,545	81	1,755	2,824	6,590
2	South	69	<5	41	2,108	813	420	331	320	390	2,487
3	Southwest	75	16	183	3,996	1,188	1,244	346	642	981	4,365
4	Central	9	30	1,209	1,203	2,136	2,802	128	1,162	1,470	3,103
5	Southeast	72	<5	37	768	820	348	134	219	362	1,178
6	Inglewood	37	9	183	2,493	908	843	202	449	576	3,100
7	Compton	12	6	80	1,485	833	429	215	267	386	1,989
8	Long Beach	40	20	698	925	874	1,372	111	761	857	1,921
9	Northeast	47	6	273	135	1,358	861	89	312	527	1,240
10	East Valley	19	6	858	398	1,165	1,344	65	403	759	1,796
11	Antelope Valley	5	<5	243	1,017	450	274	153	192	234	1,580
12	San Antonio	58	9	116	97	1,698	644	141	298	467	1,357
13	East LA	16	<5	51	24	819	343	69	140	237	657
14	West	84	<5	1,404	500	590	1,393	36	456	625	2,178
15	Harbor	31	<5	143	165	440	246	28	116	147	624
16	West Valley	86	<5	1,017	453	1,518	1,322	96	533	831	2,451
17	Bellflower	6	<5	224	353	605	452	65	197	259	1,040
18	Whittier	91	<5	182	50	846	415	69	170	241	847
19	El Monte	23	<5	101	46	1,158	487	105	193	337	1,049
20	Pomona	54	5	305	294	980	555	100	210	355	1,334
21	Torrance	79	<5	345	508	354	389	66	179	205	1,161
22	Glendale	27	<5	478	71	272	435	15	136	224	708
23	Foothill	25	<5	203	171	409	323	45	133	174	653
24	Pasadena	50	<5	73	113	122	144	12	97	96	232
25	Alhambra	3	<5	100	33	386	311	31	141	272	506
26	San Fernando	62	<5	301	115	604	413	30	171	243	874

*Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from all data shown. The top 10 health districts for each characteristic are shaded in red.

¹ Rank is based on results from the hot spot analyses, the number of infections and number of people with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident during the 2010-2014 period, relative to other health districts. It adjusts for population and geographic size.

² Data are suppressed for < 5 persons and/or 2014 population < 500.



Health District Profile Example



Health District Profile – Rank Calculation (Residents with HIV, SY, GC or High Risk CT in 2010-2014)

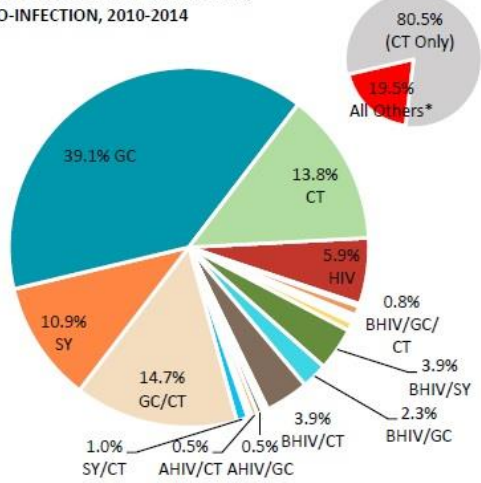


Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

El Monte Health District No. 23



HIV & STD BURDEN BY INFECTION/
CO-INFECTION, 2010-2014



*Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from the larger pie chart and data shown "among infected persons".

Count of infected persons
PLWH (+ STD): **287**
STD Only: **1,207**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ²	
N	% of LAC Total
Residents Represented ⁶	1,494 (2.4%)

	N	%	LAC %
Current Gender⁷			
Male	966	64.7%	69.7%
Female	525	35.1%	29.9%
Transgender	<5	-	0.3%
Transgender M-F	<5	-	0.2%
Transgender F-M	<5	-	0.0%

	N	%	LAC %
Race/Ethnicity⁷			
White	101	6.8%	20.8%
African American	45	3.1%	29.5%
Latino	1,158	77.5%	38.1%
Asian	111	7.4%	11.6%
AI/AN ⁸	<5	-	3.5%
NHOP ⁸	-	-	0.3%

	N	%	LAC %
Select Populations			
MSM/MSMW	487	32.6%	38.4%
Youth (15-19 years) ⁹	186	12.4%	13.4%
Youth (15-24 years) ⁹	627	42.0%	38.3%
Pregnant ⁹	105	7.0%	4.4%

	N	%	LAC %
Syphilis Stage (if any)⁹			
Early Syphilis ¹⁰	176	11.8%	14.0%
Congenital Syphilis	6	0.4%	0.1%

Rank **19** out of 26¹

Average infections per infected person² **1.39**

Average infections per year per square mile² **6.70**

ALL HIV & STD INCIDENTS ³		Los Angeles County (LAC) Rate
Rate Per 100,000 Person-Years	Rate	(LAC) Rate
HIV, 2010-2014	9	19
Syphilis, 2010-2014	17	32
Gonorrhea, 2010-2014	56	112
Chlamydia, 2010-2014 ⁴	427	461

INFECTION CHARACTERISTICS AMONG INFECTED PERSONS ²	
N	% of LAC Total
Infections & Co-infections ³	2,070 (2.1%)

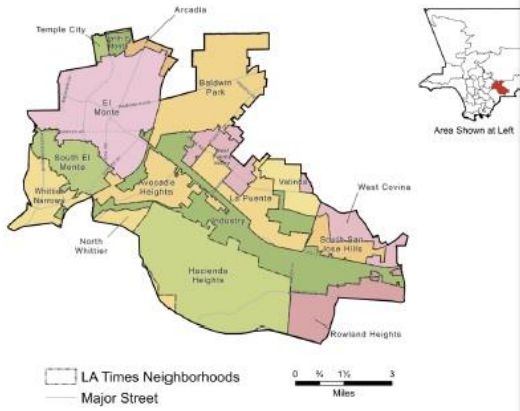
Incidents Represented ³	
N	% of LAC Total
HIV Incidents	193 (2.0%)
Syphilis Incidents	366 (2.3%)
Gonorrhea Incidents	1,215 (2.2%)
Chlamydia Incidents	737 (2.0%)

ACRONYMS
 SY = Syphilis GC = Gonorrhea CT = Chlamydia
 PLWH (+ STD) = Persons living with HIV who had an STD in 2010-2014 or were diagnosed with HIV in 2010-2014
 AHIV = Acquired HIV 30 days or more after STD infection
 BHIV = Acquired HIV 30 days or more before STD infection
 WHIV = HIV co-infected at time of STD infection (within +/- 30 days)
 LAC = Los Angeles County
 % of LAC = (# in Health District w/characteristic ÷ Total LAC)
 LAC % = (# in LAC w/characteristic ÷ Total LAC)

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Health District Profile – Rank Calculation (Residents with HIV, SY, GC or High Risk CT in 2010-2014)

El Monte
Health District No. 23



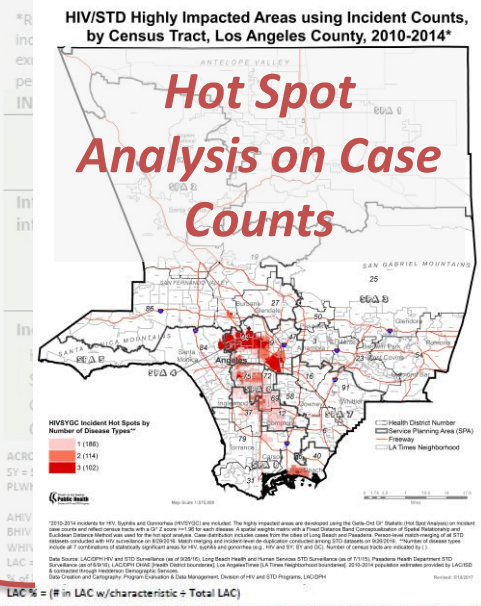
Rank **19** out of 26¹

Average infections per infected person² **1.39**

Average infections per year per square mile² **6.70**

ALL HIV & STD INCIDENTS ³		Los Angeles County (LAC) Rate
Rate Per 100,000 Person-Years		
	Rate	
HIV, 2010-2014	9	19
Syphilis, 2010-2014	17	32
Gonorrhea, 2010-2014	56	112
Chlamydia, 2010-2014 ⁴	427	461

$$\frac{\text{\# of Infected Persons in Health District}}{\text{Health District Population}} + \frac{\text{\# of Infections/Co-infections in Health District}}{\text{Health District Area (miles}^2\text{)}}$$



Department of Public Health

RESIDENT CHARACTERISTICS

Current Gender?

- Male
- Female
- Transgender
- Transgender M-F
- Transgender F-M

Race/Ethnicity?

- White
- African American
- Latino American
- Asian
- AI/AN⁸
- NHOPI⁸

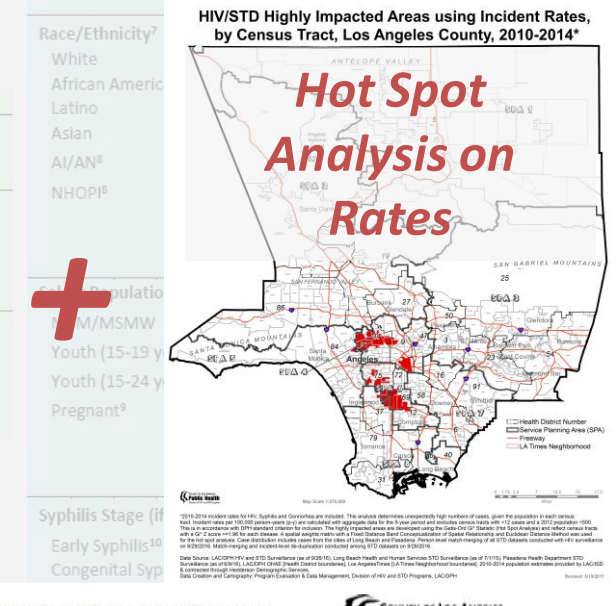
Age Group?

- Youth (15-19 y)
- Youth (15-24 y)
- Pregnant⁹

Syphilis Stage (if any)

- Early Syphilis¹⁰
- Congenital Syphilis¹⁰

Map Scale: 1:500,000

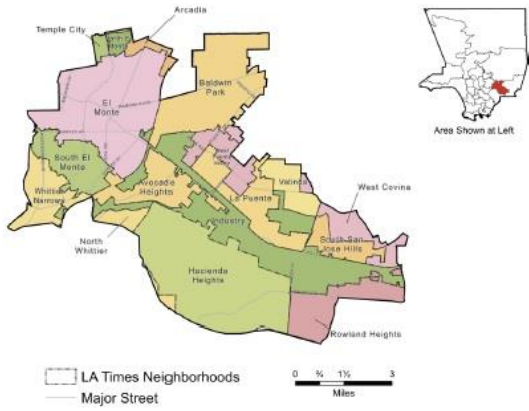


Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Health District Profile – Infection Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)

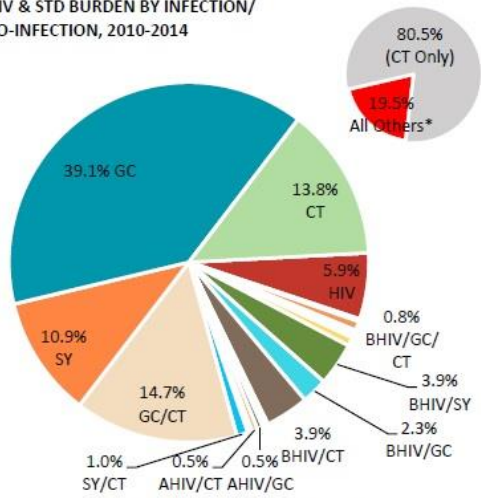


El Monte Health District No. 23



Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

HIV & STD BURDEN BY INFECTION/
CO-INFECTION, 2010-2014



*Residents with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident in 2010-2014. Residents with only Chlamydia incidents are excluded from the larger pie chart and data shown "among infected persons".

Count of infected persons
PLWH (+ STD): **287**
STD Only: **1,207**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS²

	N	% of LAC Total
Residents Represented ⁶	1,494	2.4%

	N	%	LAC %
Current Gender ⁷			
Male	966	64.7%	69.7%
Female	525	35.1%	29.9%
Transgender	<5	-	0.3%
Transgender M-F	<5	-	0.2%
Transgender F-M	<5	-	0.0%
Race/Ethnicity ⁷			
White	101	6.8%	20.8%

Rank **19** out of 26¹

Average infections per infected person² **1.39**
Average infections per person² **6.70**

% of LAC Column Total:
ALL HIV & STD INCIDENTS³
Rate Per 100,000 Residents⁴ 101
2.1% of [HIV/SY/GC/CT] incidents in LAC in 2010-2014 were in the El Monte Health District.

Gonorrhea, 2010-2014	56	112
Chlamydia, 2010-2014 ⁴	427	461

INFECTION CHARACTERISTICS AMONG INFECTED PERSONS²

	N	% of LAC Total
Infections & Co-infections ³	2,070	2.1%
Incidents Represented ³		
HIV Incidents	193	2.0%
Syphilis Incidents	366	2.3%
Gonorrhea Incidents	1,215	2.2%
Chlamydia Incidents	737	2.0%

ACRONYMS
SY = Syphilis GC = Gonorrhea CT = Chlamydia
PLWH (+ STD) = Persons living with HIV who had an STD in 2010-2014 or were diagnosed with HIV in 2010-2014
AHIV = Acquired HIV 30 days or more after STD infection
BHIV = Acquired HIV 30 days or more before STD infection
WHIV = HIV co-infected at time of STD infection (within +/- 30 days)
LAC = Los Angeles County
% of LAC = (# in Health District w/characteristic ÷ Total LAC)
LAC % = (# in LAC w/characteristic ÷ Total LAC)

2.1% of infections & co-infections in LAC in 2010-2014 were from the El Monte Health District.

	N	%	LAC %
Select Populations			
MSM/MSMW	487	32.6%	38.4%
Youth (15-19 years) ⁹	186	12.4%	13.4%
Youth (15-24 years) ⁹	627	42.0%	38.3%
Pregnant ⁹	105	7.0%	4.4%
Syphilis Stage (if any) ⁹			
Early Syphilis ¹⁰	176	11.8%	14.0%
Congenital Syphilis	6	0.4%	0.1%

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Health District Profile – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

El Monte Health District No. 23



Blue column %s:
 _____% of El Monte Health District residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 were/had _____.

Gray column LAC %s:
 _____% of LAC residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 were/had _____.

Count of infected persons
 PLWH (+ STD): **287**
 STD Only: **1,207**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ²		
	N	% of LAC Total
Residents Represented ⁶	1,494	2.4%

	N	%	LAC %
Current Gender⁷			
Male	966	64.7%	69.7%
Female	525	35.1%	29.9%
Transgender	<5	-	0.3%
Transgender M-F	<5	-	0.2%
Transgender F-M	<5	-	0.0%

	N	%	LAC %
Race/Ethnicity⁷			
White	101	6.8%	20.8%
African American	45	3.1%	29.5%
Latino	1,158	77.5%	38.1%
Asian	111	7.4%	11.6%
AI/AN ⁸	<5	-	3.5%
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Select Populations			
MSM/MSMW	487	32.6%	38.4%
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	N	%	LAC %
Syphilis Stage (if any)⁹			
Early Syphilis ¹⁰	176	11.8%	14.0%
Congenital Syphilis	6	0.4%	0.1%

Rank 19 out of 26¹
 Average infections per infected person² **1.39**
 Average infections per year per square mile² **6.70**

ALL HIV & STD INCIDENTS ³	Los Angeles County
Rate Per 100,000 Person-Years	

These are time-sensitive, and reflect status as of the incident date.

Rate	LAC Rate
19	32
1.39	1.12
6.70	4.01

The gray column LAC % allow us to compare the Health District distribution of a characteristic with that of LAC.

Latino residents in the El Monte Health District were overrepresented compared to all of LAC

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Health District Profile – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



Los Angeles County Department of Public Health | 2010-2014 HIV & STD BURDEN BY HEALTH DISTRICT

El Monte Health District No. 23

How many people in the El Monte Health District were pregnant at the time of the HIV/STD incident?

105 residents OR

7.0% of El Monte Health District residents with a HIV, syphilis, gonorrhea or high risk chlamydia incident in 2010-2014 OR

*Roughly 19.8% of El Monte Health District females/trans men with either a HIV, syphilis, gonorrhea or high risk chlamydia incident in 2010-2014
(Calculation: 105/(525+5))*

ALL HIV & STD INCIDENTS ³	Los Angeles County	LAC Rate
Rate Per 100,000 Person-Years		
2010-2014	427	4.01

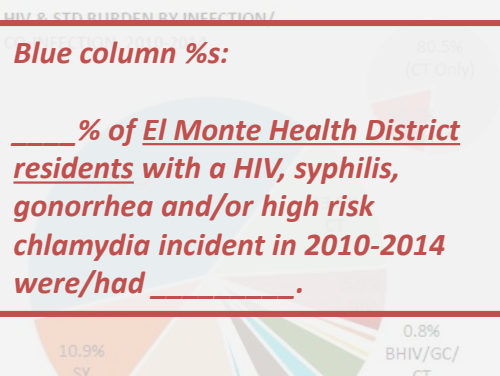
These are time-sensitive, and reflect status as of the incident date.

Blue column %:
_____ % of El Monte Health District residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 were/had _____.

How many people in the El Monte Health District were MSM/MSMW?
487 residents OR

32.6% of El Monte Health District residents with a HIV, syphilis, gonorrhea or high risk chlamydia incident in 2010-2014 OR

*Roughly 50.2% of El Monte Health District males/trans women with either a HIV, syphilis, gonorrhea or high risk chlamydia incident in 2010-2014
(Calculation: 487/(966+5)).*



Count of infected persons
PLWH (+ STD): **287**
STD Only: **1,207**

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ²		
	N	% of LAC Total
Residents Represented ⁶	1,494	2.4%

	N	%	LAC %
Current Gender⁷			
Male	966	64.7%	69.7%
Female	525	35.1%	29.9%
Transgender	<5	-	0.3%
Transgender M-F	<5	-	0.2%
Transgender F-M	<5	-	0.0%

	N	%	LAC %
Race/Ethnicity⁷			
White	101	6.8%	20.8%
African American	45	3.1%	29.5%
Latino	1,158	77.5%	38.1%
Asian	111	7.4%	11.6%
AI/AN ⁸	<5	-	3.5%
NHOP ⁸	-	-	0.3%

	N	%	LAC %
Select Populations			
MSM/MSMW	487	32.6%	38.4%
Youth (15-19 years) ⁹	186	12.4%	13.4%
Youth (15-24 years) ⁹	627	42.0%	38.3%
Pregnant ⁹	105	7.0%	4.4%

	N	%	LAC %
Syphilis Stage (if any)⁹			
Early Syphilis ¹⁰	176	11.8%	14.0%
Congenital Syphilis	6	0.4%	0.1%

Data Source: LAC/DPH HIV and STD Surveillance (as of 9/26/16), Long Beach Health and Human Services STD Surveillance (as of 7/1/15), Pasadena Health Department STD Surveillance (as of 6/9/16), LAC/DPH OHAE [Health District boundaries], Los Angeles Times [LA Times Neighborhood boundaries]. 2010-2014 population estimates and 2014 population demographics provided by LAC/ISD & contracted through Hedderson Demographic Services. Data Creation and Cartography: Program Evaluation & Data Management, Division of HIV and STD Programs, LAC/DPH

Health District Profile – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ²			
	N	%	LAC %
Recurrent STD Infections			
Syphilis (SY)			
1 incident	311	20.8%	19.5%
2 incidents	24	1.6%	2.2%
3 incidents	1	0.1%	0.4%
4 or more	1	0.1%	0.1%
Gonorrhea (GC)			
1 incident	931	62.3%	59.6%
2 incidents	96	6.4%	8.1%
3 incidents	10	0.7%	2.0%
4 or more	12	0.8%	1.2%
Chlamydia (CT)			
1 incident	363	24.3%	25.6%
2 incidents	87	5.8%	8.0%
3 incidents	38	2.5%	3.0%
4 or more	18	1.2%	1.7%
	N	%	LAC %
Infection & Co-infection Combinations^{5,9,11}			
HIV Infection Only	123	8.2%	9.3%
Co-Infected w/HIV			
SY, GC, CT	1	0.1%	0.1%
SY, GC	1	0.1%	0.1%
SY, CT	1	0.1%	0.1%
GC, CT	2	0.1%	0.3%
Syphilis (SY)	17	0.8%	1.0%
Gonorrhea (GC)	7	0.3%	0.6%
Chlamydia (CT)	3	0.1%	0.6%
Acquired HIV Infection <u>Before</u> STD			
SY, GC, CT	1	0.1%	0.3%
SY, GC	1	0.1%	0.5%
SY, CT	2	0.1%	0.6%
GC, CT	14	0.9%	2.3%
Syphilis (SY)	65	4.4%	7.7%
Gonorrhea (GC)	37	2.5%	5.9%
Chlamydia (CT)	53	3.5%	6.3%

RESIDENT CHARACTERISTICS AMONG INFECTED PERSONS ²			
	N	%	LAC %
Infection & Co-infection Combinations^{5,9,11}			
Acquired HIV Infection <u>After</u> STD			
SY, GC, CT	1	0.1%	0.0%
SY, GC	1	0.1%	0.1%
SY, CT	0	0.0%	0.1%
GC, CT	4	0.3%	0.5%
Syphilis (SY)	4	0.3%	0.5%
Gonorrhea (GC)	8	0.5%	1.1%
Chlamydia (CT)	10	0.7%	1.0%
No HIV Infection			
SY, GC, CT	3	0.2%	0.2%
SY, GC	5	0.3%	0.6%
SY, CT	21	1.4%	0.7%
GC, CT	290	19.4%	18.4%
Syphilis (SY)	220	14.7%	10.6%
Gonorrhea (GC)	732	49.0%	46.0%
Chlamydia (CT)	194	13.0%	15.4%

¹ Rank is based on results from the hot spot analyses, the number of infections and number of people with a HIV, Syphilis, Gonorrhea or high risk Chlamydia incident during the 2010-2014 period, relative to the other health districts. It adjusts for population and geographic size.

² Residents with only Chlamydia incidents are excluded for all data shown "among infected persons".

³ Consists of reported incidents during the 2010-2014 period without regard to other co-infections.

⁴ Residents with only Chlamydia incidents are included in the rate calculation.

⁵ Co-infection is defined as occurring within +/- 30 days of the HIV or STD incident.

⁶ Resident status is determined by the latest address on file across all data sources.

⁷ Percentages may not add up to 100% due to rounding or exclusion of unknown/missing values. Data are suppressed for <5 persons and/or 2014 population < 500.

⁸ AI/AN = American Indian/Alaskan Native. NHOPI = Native Hawaiian/Other Pacific Islander.

⁹ Defined as 'ever reported' during the 2010-2014 period.

¹⁰ Early Syphilis includes all cases staged as primary, secondary, or early latent.

¹¹ Percentages will not add up to 100%. Residents can be added more than once down a column.

¹² Percentages for Medi-Cal Eligible ↓ 200% FPL reflect the proportions of residents below the 200% FPL, not the total population.

POPULATION DEMOGRAPHICS, 2014			
	N	%	LAC %
Sex			
Male	218,508	49.6%	49.3%
Female	221,746	50.4%	50.7%
	N	%	LAC %
Age			
0-12	78,978	17.9%	16.6%
13-19	47,161	10.7%	9.7%
20-29	69,576	15.8%	15.3%
30-39	59,469	13.5%	14.4%
40-49	58,462	13.3%	14.0%
50-59	53,582	12.2%	13.0%
60+	73,026	16.6%	17.0%
	N	%	LAC %
Race/Ethnicity			
White	29,609	6.7%	28.4%
African American	5,116	1.2%	8.6%
Latino	303,756	69.0%	48.2%
Asian	100,735	22.9%	14.4%
AI/AN	620	0.1%	0.2%
NHOPI	418	0.1%	0.2%
	N	%	LAC %
Poverty Level			
100% FPL	71,477	16.2%	18.1%
130% FPL	115,124	26.1%	25.8%
133% FPL	117,580	26.7%	26.4%
200% FPL	203,056	46.1%	40.4%
	N	%	LAC %
Insurance Status			
Medi-Cal Eligible			
↓ 200% FPL ¹²	50,895	25.1%	10.1%
Medically Uninsured	89,324	20.3%	17.6%

Health District Profile – Resident Characteristics (Residents with HIV, SY, GC or High Risk CT in 2010-2014)



52.2% (n=176) of El Monte Health District residents with a syphilis incident in 2010-2014 was diagnosed with either Primary, Secondary or Early Latent Syphilis (i.e., Early Syphilis). (Calculation: 176/(311+24+1+1)).

IMPORTANT!!
N and LAC% cannot be added down columns

Acute HIV infection

Recurrent STD Infections	N	%	LAC %
Syphilis (SY)			
1 incident	311	20.8%	19.5%
2 incidents	24	1.6%	2.2%
3 incidents	1	0.1%	0.4%
4 or more	1	0.1%	0.1%
Gonorrhea (GC)			
1 incident	931	62.3%	59.6%
2 incidents	96	6.4%	8.1%
3 incidents	10	0.7%	2.0%
4 or more	12	0.8%	1.2%
Chlamydia (CT)			
1 incident	363	24.3%	25.6%
2 incidents	87	5.8%	8.0%
3 incidents	38	2.5%	3.0%
4 or more	18	1.2%	1.7%

Infection & Co-infection Combinations ^{5,9,11}	N	%	LAC %
HIV Infection Only	123	8.2%	9.3%
Co-Infected w/HIV			
SY, GC, CT	1	0.1%	0.1%
SY, GC	1	0.1%	0.1%
SY, CT	1	0.1%	0.1%
GC, CT	2	0.1%	0.3%
Syphilis (SY)	17	0.8%	1.0%
Gonorrhea (GC)	1	0.3%	0.6%
Chlamydia (CT)	3	0.1%	0.6%
Acquired HIV Infection Before STD			
SY, GC, CT	1	0.1%	0.3%
SY, GC	1	0.1%	0.5%
SY, CT	2	0.1%	0.6%
GC, CT	14	0.9%	2.3%
Syphilis (SY)	65	4.4%	7.7%
Gonorrhea (GC)	37	2.5%	5.9%
Chlamydia (CT)	53	3.5%	6.3%

CHARACTERISTICS AMONG INFECTED	N	%	LAC %
Infection & Co-infection Combinations ^{5,9,11}			
Acquired HIV Infection After STD			
SY, GC, CT	1	0.1%	0.0%
SY, GC	1	0.1%	0.1%
SY, CT	0	0.0%	0.1%
GC, CT	4	0.3%	0.5%
Syphilis (SY)	4	0.3%	0.5%
Gonorrhea (GC)	8	0.5%	1.1%
Chlamydia (CT)	10	0.7%	1.0%
No HIV Infection			
SY, GC, CT	3	0.2%	0.2%
SY, GC	5	0.3%	0.6%
SY, CT	21	1.4%	0.7%
GC, CT	290	19.4%	18.4%
Syphilis (SY)	220	14.7%	10.6%
Gonorrhea (GC)	732	49.0%	46.0%
Chlamydia (CT)	194	13.0%	15.4%

Gray column %: 2014
 ___% of El Monte Health District residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 were/had ___.

13.0% of El Monte Health District residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 also had 1 or more chlamydia infections

70.2% of El Monte Health District residents with a HIV, syphilis, gonorrhea and/or high risk chlamydia incident in 2010-2014 had gonorrhea.

Covert	N	%	LAC %
poverty Level			
100% FPL	71,477	16.2%	18.1%
130% FPL	115,124	26.1%	25.8%
133% FPL	117,580	26.7%	26.4%
200% FPL	203,056	46.1%	40.4%

¹ Rank is based on results from the hot spot analyses, the number of infections and number of risk Chlamydia incident other health districts. It
² Residents with only Chlamydia incident among infected person
³ Consists of reported incident regard to other co-infections.
⁴ Residents with only Chlamydia incidents are included in the rate calculation.
⁵ Co-inf incident
⁶ Resident source
⁷ Percent unknown
⁸ 2014
⁹ AI/AN
¹⁰ Pacific
¹¹ Define
¹² Early Syphilis includes all cases staged as primary, secondary, or early latent.
¹³ Percent once do
¹⁴ Percent resident

Indentation indicates that the characteristic is a subset of the characteristic above it.

17 El Monte Health District residents had a HIV and syphilis co-infection between 2010-2014.

...pay attention only to the following:

- **At a Glance:** The 2-pager gives a comparison of the Health Districts in a single document.
- **Rank**
- **Count of Infected Persons:** PLWH (+STD) vs STD Only.
- **Blue Section on Infected Persons:** Basic demographics. Percentages for Current Gender and Race add up to roughly 100%.

These give a quick snapshot of the disease burden of your area compared to all of LA County.



...reference the Administrative Boundary Crosswalk.

- This lists all of the LA Times Neighborhoods and where each falls in Health District, Service Planning Area (SPA) and Supervisorial District.

<http://publichealth.lacounty.gov/dhsp/Mapping.htm>

**At a Glance, Supporting Maps, Technical Notes,
Administrative Boundary Crosswalk**

<http://publichealth.lacounty.gov/dhsp/Mapping.htm>

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