Mapping HIV Prevention and Treatment in Los Angeles County

A Countywide Snapshot of Publicly-funded Testing, Prevention, and Treatment

Section I: HIV Care and Treatment

March 2009
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Background

Geographic Information Systems (GIS) are an important tool in the planning for public health services. The Office of AIDS Programs and Policy (OAPP), Planning & Research Division has been developing maps using GIS technology since 2004. These maps have been used in conjunction with other data sources to evaluate HIV prevention and care services in Los Angeles County. In addition, OAPP has been working collaboratively with the Public Health GIS Users Group (GISUG) to share information and best practices. As a result, OAPP has developed a number of maps which display HIV testing and treatment services data.

OAPP has three sources of geographic data: HIV counseling & Testing (HCT), HIV care services, and the Los Angeles Coordinated HIV Needs Assessment (LACHNA).

HIV Counseling & Testing
As of 2009, zip code-level geographic data are available for residence of individual testers and address-level for testing site for all OAPP-funded HIV tests. Discussions regarding the feasibility and benefit of collecting these data at the census tract level are ongoing. Geographic data collected from HCT have been used to prioritize services in the Los Angeles County HIV Prevention Plan (2009-2013)\(^1\), to strategize targeted testing efforts including HIV Counseling and Testing Week\(^2\), and to evaluate current services.

HIV Care Services
Geographic data are collected at the address level for both client residence and service provider sites. While address-level data are used within Planning & Research division to evaluate and prioritize services, they are not available to the public. Maps and geographic data shared with the public and included in this report do not include confidential client-level data. Geographic data collected from HIV care services have been used to evaluate services and to plan for future services across the County.

LACHNA
LACHNA was a large-scale needs assessment conducted in 2007 and 2008 to assess HIV risk, service utilization, and service barriers among persons either at risk for HIV or currently living with HIV/AIDS. LACHNA was a pilot in collecting small-area geographic data for the purposes of planning and prioritizing services as well as for conducting spatial analysis. Geographic data collected in LACHNA include census-tract level data for respondent residence, HIV care provider (for HIV-positive respondents), work location, and main hang-out. These data are currently being analyzed. Preliminary analyses have been used in the development of the Los Angeles County HIV Prevention Plan (2009-2013)\(^1\), as well as planning for 2008 HIV Counseling and Testing Week.

Map Features
Maps which feature Los Angeles County are drawn at 1:600,000 scale and may not have labels for small features such as service delivery sites or geographical areas including zip code and census tracts. However, the resolution of these features will display on larger sized documents such as presentation posters. Maps detailing smaller geographic areas show more detailed features including zip code and site labels. Additional detail is available on request. To protect confidentiality, client-level detail is not displayed and aggregate data is not displayed for geographic areas where 5 or less individuals or tests are contained. All maps include a legend and data source.

\(^1\) Los Angeles County HIV Prevention Plan (2009-2013), http://publichealth.lacounty.gov/aids/PreventionPlan.htm
Data Requests

The maps in this report have been included for public consumption. Additional maps and map layers are available upon request. These requests should be submitted using OAPP’s request form, available online at http://publichealth.lacounty.gov/aids/reports/ExternalDataRequestForm.pdf. Questions regarding OAPP’s GIS activities should be directed to Mike Janson, MPH, Chief Research Analyst, mjanson@ph.lacounty.gov.
2007 AIDS Case Rates by Health District
Los Angeles County

Legend
Health Districts
2007 AIDS Case Rates*

- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 21
- 22 - 30
- SPA

*Per 10,000 Population; rates calculated using population estimates for 2007. Where 2007 AIDS cases were less than 5, no rate was calculated.
Cumulative AIDS Cases Diagnosed by Health District, 2007
Los Angeles County

Legend
Health Districts
Cumulative AIDS Cases, 2007
- 504 - 802
- 803 - 1,574
- 1,575 - 2,989
- 2,990 - 6,037
- 6,038 - 11,926
- Service Planning Area

Source: HIV Semi-annual Surveillance Summary, January 2008, HIV Epidemiology Program
Distribution of OAPP-funded HIV & Counseling Testing Sites and AIDS Cases* within Los Angeles County Service Planning Areas (SPAs), 2008

SPA 1: Antelope Valley
SPA 2: San Fernando
SPA 3: San Gabriel
SPA 4: Metro
SPA 5: West
SPA 6: South
SPA 7: East
SPA 8: South Bay

Source: HIRS, 2008. Planning & Research Division

*Data Source: HIV Epidemiology Program, Semi-Annual Report, February 2009

Health Districts
2008 AIDS Cases

- Agency
- Court
- DREX
- Mobile
- Other
- Store Front
- Service Planning Area

Legend:
- <=5
- 6 - 16
- 17 - 27
- 28 - 44
- 45 - 141

Source: HIRS, 2008. Planning & Research Division
Home Based Case Management
Client Distribution by Zip Code
March 2007 - February 2008
Los Angeles County

Source: CaseWatch Data, Contract Year 17
Public/Private Hospitals and Comprehensive Care Centers
Los Angeles County

Legend
- Service Planning Area
- Private
- Public
- Public/Private - Not Defined

Source: California Office of Statewide Health Planning & Development (OSHPD)
Medical Outpatient Clients by Service Planning Area
Los Angeles County
March 2007 - February 2008

Medical Outpatient Clients*
- 240 - 358
- 359 - 982
- 983 - 1,889
- 1,890 - 4,414

Ryan White Care Providers
- Case Management Services
- Housing Services
- Medical Case Management
- Medical Nutritional Therapy
- Mental Health Services
- Outpatient/ambulatory Med Svcs
- Treatment Adherence Services

* Client Distribution excludes 1,158 Medical Outpatient clients who were either homeless or had an invalid address (8% of total). Total number of Medical Outpatient clients is 13,743.

** Breakdown includes 25th, 50th, 75th and 100th Percentiles
Care Service Delivery Sites by Service Category
March 2007 - February 2008
Los Angeles County

Legend
Ryan White Care Sites
- Case Management Services
- Housing Services
- Medical Case Management (including Medical Nutritional Therapy)
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services
- SPA

Source: Casewatch, 2008, Planning & Research Division
Distribution of Care Clients
Service Planning Area 1 (Antelope Valley)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Mean Center
- Case Management Services
- Medical Nutritional Therapy
- Mental Health Services
- Outpatient/ambulatory medical servi
- Treatment adherence services
- RWCA Clients, Directional Distribution

* Within 2 Standard Deviations of Directional Distribution

Source: Casewatch, 2008
Density of Care Clients
Service Planning Area 1 (Antelope Valley)
March 2007 - February 2008
Los Angeles County

Ryan White Care Providers - SPA 1
- Case Management Services
- Medical Nutritional Therapy
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services

RWCA Clients, n=323
Per 25 Sq. Miles
- 0 - 2
- 3 - 4
- 5 - 7

Source: Casewatch, 2008
Density of Medical Outpatient Clients
Service Planning Area 1 (Antelope Valley)
March 2007 - February 2008
Los Angeles County

SPA Boundary
RWCA Medical Outpatient Providers

SPA 1 RWCA Medical Outpatient Clients, n=240
Per 25 Sq. Miles

0 - 1
2 - 3
4 - 5

Source: Casewatch, 2008
Distribution of Care Clients*
Service Planning Area 2 (San Fernando)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Mean Center
- Case Management Services
- Housing Services
- Medical Case Management
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services
- Medical Nutritional Therapy
- RWCA Clients, Directional Distribution

* Within 2 Standard Deviations of directional distribution

Source: CaseWatch Data, Year 17
Distribution of Medical Outpatient Clients*  
Service Planning Area 2 (San Fernando)  
March 2007 - February 2008  
Los Angeles County

Legend
- SPA Boundary
- RWCA Medical Outpatient Providers
- Mean Center
- Medical Outpatients, Directional Distribution

* Within 2 Standard Deviations of directional distribution

Source: CaseWatch Data, Year 17
Density of Care Clients
Service Planning Area 2 (San Fernando)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Case Management Services
- Housing Services
- Medical Case Management
- Medical Nutritional Therapy
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services

RWCA Clients, n=2,407
Per 25 Sq. Miles
- 0 - 5
- 6 - 10
- 11 - 16
- 17 - 21
- 22 - 27

Source: CaseWatch Data, Year 17
Density of Medical Outpatient Clients
Service Planning Area 2 (San Fernando)
March 2007 - February 2008
Los Angeles County

Legend

SPA Boundary
RWCA Medical Outpatient Providers

SPA 2 RWCA Medical Outpatient Clients, n=1,889
Per 25 Sq. Miles

- <=5
- 6 - 9
- 10 - 13
- 14 - 18
- 19 - 23

Source: CaseWatch Data, Year 17
Distribution of Care Clients*
Service Planning Area 3 (San Gabriel)
March 2007 - February 2008
Los Angeles County

* Within 2 Standard Deviations of directional distribution

Source: CaseWatch Data, Contract Year 17
Density of Care Clients
Service Planning Area 3 (San Gabriel)
March 2007 - February 2008
Los Angeles County

SPA Boundary

- Medical Nutritional Therapy
- Treatment adherence services
- Mental Health Services
- Medical Case Management
- Case Management Services
- Housing Services
- Outpatient/ambulatory medical services

RWCA CARE Clients, n=995
Per 25 Sq. Miles
- <=5
- 6 - 7
- 8 - 11

Source: CaseWatch Data, Contract Year 17
Density of Medical Outpatient Clients
Service Planning Area 3 (San Gabriel)
March 2007 - February 2008
Los Angeles County

Density of Medical Outpatient Clients
Service Planning Area 3 (San Gabriel)
March 2007 - February 2008
Los Angeles County

SPA 3 RWCA Medical Outpatient Clients, n=777
Per 25 Sq. Miles

<=5
6 - 7
8 -11

Source: CaseWatch Data, Contract Year 17
Distribution of Care Clients*
Service Planning Area 4 (Metro)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Mean Center
- Medical Nutritional Therapy
- Case Management Services
- Housing Services
- Medical Case Management
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services
- RWCA Clients, Directional Distribution

Source: Casewatch Data, Contract Year 17

* Within 2 Standard Deviations of directional distribution
Distribution of Medical Outpatient Clients*
Service Planning Area 4 (Metro)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Mean Center
- RWCA Medical Outpatient Providers
- Medical Outpatients, Directional Distribution

* Within 2 Standard Deviations of directional distribution

Source: Casewatch Data, Contract Year 17
Density of Care Clients
Service Planning Area 4 (Metro)
March 2007 - February 2008
Los Angeles County

SPA 4: Metro

Density of Care Clients
Service Planning Area 4 (Metro)
March 2007 - February 2008
Los Angeles County

RWCA Care Clients, n=5,515
Per 25 Sq. Miles

0 - 28
29 - 57
58 - 86
87 - 115
116 - 144
145 - 173
174 - 202
203 - 231
232 - 260

Source: Casewatch Data, Contract Year 17
Density of Medical Outpatient Clients
Service Planning Area 4 (Metro)
March 2007 - February 2008
Los Angeles County

Legend

SPA Boundary
RWCA Medical Outpatient Providers

SPA 4 RWCA Medical Outpatient Clients, n=4,414
Per 25 Sq. Miles

- <=24
- 25 - 47
- 48 - 71
- 72 - 95
- 96 - 118
- 119 - 142
- 143 - 166
- 167 - 190
- 191 - 214

Source: Casewatch Data, Contract Year 17
Distribution of Care Clients*
Service Planning Area 5 (West)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- Mean Center
- Case Management Services
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services
- RWCA Clients, Directional Distribution

* Within 2 Standard Deviations of directional distribution

Source: Casewatch Data, Contract Year 17
Density of Care Clients
Service Planning Area 5 (West)
March 2007 - February 2008
Los Angeles County

SPA Boundary
- Case Management Services
- Mental Health Services
- Outpatient/ambulatory medical services
- Treatment adherence services

RWCA CARE Clients, n=494
Per 25 Sq. Miles

- 0 - 5
- 6 - 10
- 11 - 17
- 18 - 22
- 23 - 29

Source: Casewatch Data, Contract Year 17
Density of Ryan White Care Medical Outpatient Clients
Service Planning Area 5 (West)
March 2007 - February 2008
Los Angeles County

Legend
- SPA Boundary
- RWCA Medical Outpatient Providers

SPA 5 RWCA Medical Outpatient Clients, n=358
Per 25 Sq. Miles
- <=5
- 6 - 9
- 10 - 14
- 15 - 19

Source: Casewatch Data, Contract Year 17
Distribution of Care Clients*
Service Planning Area 6 (South)
March 2007 - February 2008
Los Angeles County

* Within 2 Standard Deviations of directional distribution
Distribution of Medical Outpatient Clients*
Service Planning Area 6 (South)
March 2007 - February 2008
Los Angeles County

Source: CaseWatch Data, Contract Year 17

* Within 2 Standard Deviations of directional distribution
Density of Care Clients
Service Planning Area 6 (South)
March 2007 - February 2008
Los Angeles County

Source: CaseWatch Data, Contract Year 17
Density of Medical Outpatient Clients
Service Planning Area 6 (South)
March 2007 - February 2008
Los Angeles County

SPA Boundary
RWCA Medical Outpatient Providers

SPA 6 RWCA Medical Outpatient Clients, n=1,773
Per 25 Sq. Miles

- <=10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50
- 51 - 60

Source: CaseWatch Data, Contract Year 17
Distribution of Care Clients*
Service Planning Area 7 (East)
March 2007 - February 2008
Los Angeles County

Source: Casewatch Data, Contract Year 17
Density of Care Clients
Service Planning Area 7 (East)
March 2007 - February 2008
Los Angeles County

Density of Care Clients
Service Planning Area 7 (East)
March 2007 - February 2008
Los Angeles County

Source: Casewatch Data, Contract Year 17
Distribution of Care Clients*
Service Planning Area 8 (South Bay)
March 2007 - February 2008
Los Angeles County

SPA Boundary
Mean Center
Case Management Services
Housing Services
Medical Case Management (including Medical Nutritional Therapy
Mental Health Services
Outpatient/ambulatory medical servi Treatment adherence services
RWCA Clients, Directional Distribution

Source: Casewatch Data, Contract Year 17

* Within 2 Standard Deviations of directional distribution
Distribution of Medical Outpatient Clients*
Service Planning Area 8 (South Bay)
March 2007 - February 2008
Los Angeles County

SPA Boundary
Mean Center
RWCA Medical Outpatient Providers
Medical Outpatients, Directional Distribution

* Within 2 Standard Deviations of directional distribution

Source: Casewatch Data, Contract Year 17
Density of Care Clients
Service Planning Area 8 (South Bay)
March 2007 - February 2008
Los Angeles County

Source: Casewatch Data, Contract Year 17
Density of Medical Outpatient Clients
Service Planning Area 8 (South Bay)
March 2007 - February 2008
Los Angeles County

SPA Boundary
• RWCA Medical Outpatient Providers

SPA 8 RWCA Medical Outpatient Clients, n=2,146
Per 25 Sq. Miles

Source: Casewatch Data, Contract Year 17