

PARTNER SERVICES ANNUAL REPORT 2016

Centers for Disease Control and Prevention

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention

Division of HIV/AIDS Prevention

Program Evaluation Branch

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The report was prepared by Michele Rorie, Wei Song, Hui Zhang, Janet Heitgerd, Mesfin Mulatu and Shaliondel Benton.

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For more information, contact:

Division of HIV/AIDS Prevention

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention

U.S. Centers for Disease Control and Prevention

1600 Clifton Road NE MS E-59

Atlanta, GA 30333

Phone: 1-800-CDC-INFO Web address: <http://www.cdc.gov/HIV>

National HIV Prevention Program Monitoring and Evaluation Service Center

Phone: 1-855-374-7310

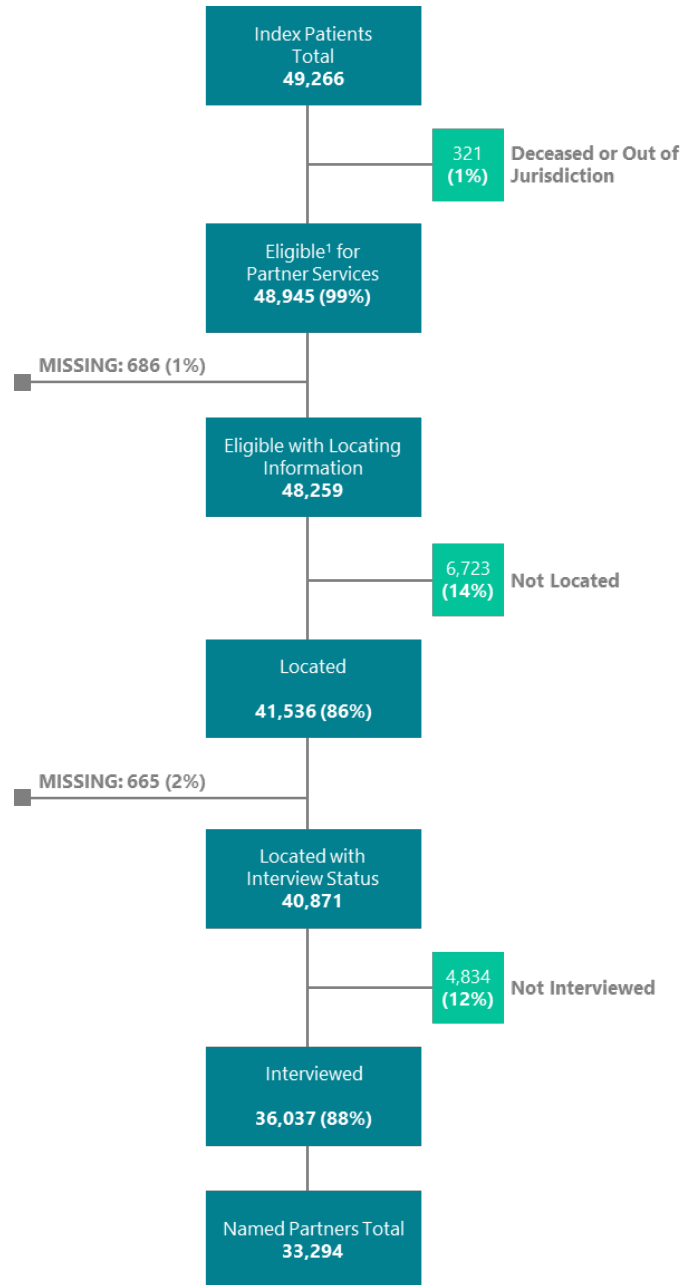
Email: NHMEservice@cdc.gov

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2016 REPORT HIGHLIGHTS*

In 2016, 49,266 index patients were identified across all HIV Partner Services programs and named a total of 33,294 partners.



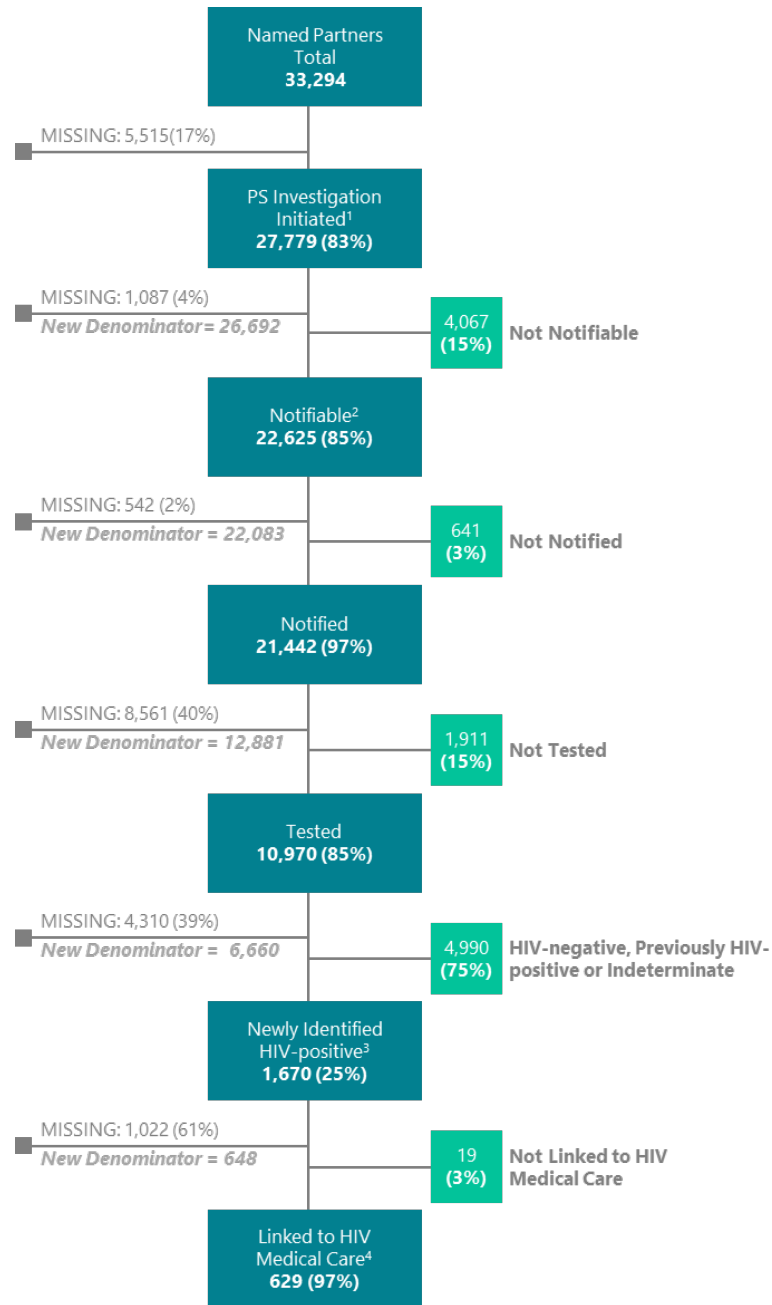
Data Source: NHM&E Partner Services data (January 1, 2016- December 31, 2016) as of September 16, 2017

*This report focuses on reported percentages calculated by excluding missing data, thus possibly overestimating the true values for the indicators.

¹ An index patient is eligible for partner services if he or she is not deceased, or out of jurisdiction at the time of report.

2016 REPORT HIGHLIGHTS*

Of the 6,660 partners tested with a documented HIV test result, 25% (1,670) were newly identified as HIV-positive. Of the total named partners, an overall yield of 5% newly identified positivity rate was achieved (1,670/33,294).



Data Source: NHM&E Partner Services data (January 1, 2016-December 31, 2016) as of September 16, 2017

*This report focuses on reported percentages calculated by excluding missing data, thus possibly overestimating the true values for the indicators.

¹ Partners named, for whom a record was created in the NHM&E client-level partner services database in EvaluationWeb®. It includes partners determined to be out of jurisdiction, deceased, not notifiable due to assessed risk for potential violence on the part of the index patient or the partner, or previously diagnosed with HIV infection.

² Partners that are not known to be HIV-positive, out of jurisdiction, deceased, or potentially violent.

³ Partners who test positive for HIV infection after having no evidence of previous HIV diagnosis from cross-check with the health department surveillance system; review of laboratory reports, medical records, or other available data sources (e.g., partner services database, evidence of previous treatment for HIV); or patient self-report.

⁴ The referring agency has confirmed that the client accessed the HIV medical care to which he or she was referred. The denominator excludes missing data as well as "pending", "lost to follow-up", "no follow-up" and "don't know" options.

Introduction

In 2016, 39,782 people were newly diagnosed with HIV in the United States¹. Many of these new infections occur following exposure to HIV from people who are infected but not receiving medical care. Some of these people have not yet been diagnosed, others have been diagnosed but were never linked to HIV medical care, and still others were linked to HIV medical care but were subsequently lost to medical follow-up. The most critical challenge for HIV prevention is to identify people with HIV infection who are not in care; help them access care so they can receive treatment with antiretroviral therapy (ART); and help them remain in care. Achieving viral suppression while in care is key to improving health outcomes.

Partner services is a key strategy for identifying people with HIV infection—those with undiagnosed infection and those with previously diagnosed infection who are not receiving HIV medical care—and helping them access care and treatment. All persons with newly diagnosed HIV infection should receive partner services to help them identify sex and needle-sharing partners who may also be infected, or may be at very high risk for becoming infected². These partners can then be notified of their potential exposure and offered HIV testing. Those who test positive for HIV can then be linked to HIV medical care and other services.

Partner services can also help persons living with HIV and their partners address other needs, such as reducing behavioral risk for transmitting or acquiring HIV; accessing treatment for mental health issues and substance abuse; and obtaining social services to address unmet housing, transportation, employment, and other needs.

This report summarizes the 2016 client-level partner services data submitted by CDC-funded jurisdictions in the United States and dependent areas (i.e., Puerto Rico and U.S. Virgin Islands).

¹ Centers for Disease Control and Prevention. HIV Surveillance Report, 2016; vol. 28. <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published November 2017. Accessed May 3, 2018.

² Centers for Disease Control and Prevention. CDC Recommendations for Partner Services Programs for HIV Infection, Syphilis, Gonorrhea, and Chlamydia Infection. *MMWR* 2008;57(No. RR-9):[1-83].

Methods

Health departments collect standardized client-level NHM&E partner services data that are submitted to CDC twice yearly for monitoring at the national level. Data are reported through EvaluationWeb[®], a secure, web-based software tool made available to grantees by CDC. The data undergo a quality assurance process and are then used to calculate program indicators at the national and jurisdictional levels to assess progress at each step of the partner services process. Indicators are stratified by age, gender, race/ethnicity, target population³, and geographic region⁴ as defined by the U.S. Census Bureau. Risk data used to define the target population is only required and reported for individuals diagnosed as HIV-positive.

Analyses for all tables in this report are based on NHM&E client-level partner services data except for Table 1, which also includes aggregate-level partner services data reported to CDC as part of the quality assurance process.

This report includes all partner services cases opened during the period of January 1 – December 31, 2016. The reported partner services program indicators include:

1. Interview of index patients (partner elicitation)
 - Percentage of eligible and located index patients who were interviewed for partner services
2. Partner notification
 - Percentage of notifiable partners who were notified of their potential exposure to HIV infection
3. Partner testing
 - Percentage of notified partners who were tested for HIV infection
 - Percentage of tested partners who had newly diagnosed HIV infection
4. Linkage to HIV medical care
 - Percentage of partners with newly diagnosed HIV infection who were linked to HIV medical care

Indicators were calculated and reported for those records with complete data. This report focuses on reported⁵ percentages, calculated by excluding missing data, thus possibly overestimating the true values for the indicators.

³ Target populations are categorized as follows: men who have sex with men and report injection drug use; men who have sex with men; transgender persons who report injection drug use; transgender persons; persons who inject drugs; heterosexual males; heterosexual females

⁴ U.S. geographic regions include the following **Northeast**: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont; **Midwest**: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota and Wisconsin; **South**: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia; **West**: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. U.S. Dependent Areas: Puerto Rico and the U.S. Virgin Islands

⁵ Reported percentages exclude missing values. In addition, linkage to HIV medical care also excludes "pending," "lost to follow-up," "no follow-up," and "don't know" options.

Findings

This report summarizes the 2016 client-level partner services data from 59 of the 61 CDC-funded jurisdictions in the United States and dependent areas (i.e., Puerto Rico and U.S. Virgin Islands). Data from 2 jurisdictions (Minnesota and New Hampshire) are not included in this report because their data were not received by the September 16, 2017 EvaluationWeb® data deadline transfer to CDC.

INDEX PATIENTS

Who was Eligible for Partner Services?

Almost 100 percent (**99%**) of index patients identified by partner service programs were **eligible for HIV partner services** (Table 2).

- **Age:** The largest percentage of eligible index patients were in the age group 20-29 years (35%) followed by 30-39 (29%). Only 2% of index patients were 19 years of age or younger (Table 3).
- **Gender:** The majority of index patients were male (89%), with females and transgender persons accounting for 16% and 1%, respectively (Table 3).
- **Race/Ethnicity:** A large percentage of index patients were black/African American (47%), followed by white (30%), and Hispanic/Latino (24%) (Table 3).
- **U.S. Geographic Region:** Almost two-thirds (62%) of index patients lived in the South (Table 3).
- **Target Population:** Gay, bisexual, and other men who have sex with men (collectively referred to as MSM) accounted for 48% of index patients in 2016. However, behavioral risk information for a large proportion of index patients was missing, not asked, or unknown (33%) (Table 3).

How Effective are Partner Services Programs in Locating and Interviewing Index Patients with HIV Infection?

Indicator: Percentage of eligible and located index patients who were interviewed for partner services

A total of 41,536 (86%) eligible index patients were located. Of those 40,871 with a reported partner services enrollment status, **36,037 (88%)** were **interviewed to elicit partner names** (Table 2).

- **Age:** Eligible index patients aged 13-19 were most often located and interviewed (91% and 92%, respectively); followed closely by index patients aged 20-29 (88% and 91%) (Table 3).
- **Gender:** Transgender persons were located at the highest rate (89%), with females and males sharing the same location rate (86%). A greater percentage of females were interviewed (92%) than males (87%) and transgender persons (86%) (Table 3).
- **Race/Ethnicity:** Black/African American index patients were located least often (85%) but had one of the highest rates for partner services interviews (93%). Although Native Hawaiian or

Pacific Islander index patients were located at the highest rate (95%), they had the lowest percentage of partner services interviews (71%) (Table 3).

- **U.S. Geographic Region:** 89% of index patients residing in the Northeast and West were located for partner services, with the lowest rate reported in the Midwest (82%). Over 90% of index patients were interviewed for partner services in U.S. Dependent Areas, the South, and the Northeast (Table 3).
- **Target Population:** Where risk was identified, target population groups were located at similar rates (95-97%) except for transgender persons (89%). Heterosexual women and men (95% and 94%, respectively) were interviewed most often and MSM/PWID (People Who Inject Drugs) least often (84%) (Table 3).

PARTNERS

33,294 sex and/or needle-sharing partners were named by index patients during the interview process. Calculated indicators were used to answer key partner services program evaluation questions.

How Effective are Partner Services Programs in Notifying Partners of their Potential HIV Exposure?

Indicator: *Percentage of notifiable partners who were notified*

Of the 33,294 partners that were named, 27,779 (83%) were initiated for partner services. Of the partners who were initiated for partner services 4,067 (15%) were excluded because they were either previously known to be HIV-positive, out of jurisdiction, deceased, or potentially violent. Another 1,087 records (4%) contained missing data. The remaining 22,625 (85%) were considered notifiable. Of the 22,083 notifiable partners with a notification method reported, a total of, **21,442 (97%)** were **notified of their potential HIV exposure** (Table 4).

- **Age:** The highest percentage of partners initiated for partner services were in the age groups 20-29 and 30-39 (29% and 21%, respectively). There was more than 97% notification of partners for all age groups except the younger than age 13 group (83%) (Table 5).
- **Gender:** Of the partners initiated for partner services, 72% were male and 14% were female. Transgender persons accounted for less than 1% of initiated partners. Male and female partners were notified at the same rate (97%), while transgender partners were notified less often (92%) (Table 5).
- **Race/Ethnicity:** The majority of partners initiated for partner services were either black/African American (36%) or white (27%); 18% were Hispanic/Latino (Table 5). There was at least 95% notification of partners for all racial/ethnic groups.

- **U.S. Geographic Region:** The majority of partners initiated for partner services lived in the South (52%), followed by the West (17%), then the Northeast and Midwest (11%). The Midwest had the lowest percentage of partners notified (82%) (Table 5). Notification of partners in the other regions was 92% or higher.
- **Target Population:** Overall, 14% of all the named partners initiated for partner services were MSM. If missing data are excluded, that figure increases to 61%. Over 90% of all target population groups were notified (Table 5). Behavioral risk data were only required to be reported for partners newly diagnosed as HIV-positive.

How Effective are Partner Services Programs in Testing Notified Partners and Identifying HIV Infections?

Indicator 1: *Percentage of notified partners who were tested*

Indicator 2: *Percentage of tested partners who were newly diagnosed with HIV infection*

Of the 12,881 notified partners with HIV test information (8,561 records were excluded for missing data), **85% (10,970) were tested for HIV** (Table 4). Of the 6,660 partners tested with a documented HIV test result (4,310 records were excluded for missing data), **25% (1,670) were newly identified as HIV-positive**. (Table 6). Even including all named partners into the denominator, partner services programs in CDC-funded health departments show a 5% yield of HIV-positive persons (1,670/33,294).

- **Age:** The highest percentage of HIV testing among notified partners was in the 13-19 years age group (90%) followed by 20-29 and 50+ (87%) (Table 5). Although partners under 13 had the lowest percentage of being tested (67%, Table 5), they had the highest percentage of being identified as HIV-positive (46%) (Table 7).
- **Gender:** Notified female partners were tested for HIV (88%) more often than male partners (85%) and transgender partners (73%) (Table 5). However, 32% of transgender partners were newly identified as HIV-positive as compared to male partners (25%) and female partners (18%) (Table 7).
- **Race/Ethnicity:** Although notified black/African American partners were tested for HIV (83%) less often compared to Hispanic/Latino (91%) and white partners (87%) (Table 5), they were more frequently newly identified as HIV-positive (27%) (Table 7).
- **U.S. Geographic Region:** U.S. Dependent Areas had the highest percentage of notified partners tested for HIV (98%) (Table 5). The highest percentage of partners newly identified as HIV-positive was in the Midwest (30%). (Table 7).
- **Target Population:** Notified transgender partners had the lowest percentage tested for HIV (73%) (Table 5). The largest percentages of newly diagnosed HIV-positive partners were among MSM (39%), persons who inject drugs (PWID) (35%), MSM/PWID (34%) and transgender persons (32%)

(Table 7). Behavioral risk data were only required to be reported for partners newly diagnosed as HIV-positive.

How Effective are Partner Services Programs in Linking HIV-Positive Partners to HIV Medical Care Services?

Indicator: *Percentage of partners with newly diagnosed HIV infection who were linked to HIV medical care*

Partners who test positive for HIV should be linked as soon as possible to HIV medical care. In 2016, a total of 1,670 partners from all partner services programs were newly identified as HIV-positive. Of the 648 newly identified HIV-positive partners with follow-up information to verify that services were accessed (1,022 records or 61% were excluded for missing data or a non-confirmed care status), **629 (97%)** were **linked to HIV medical care** (Table 6).

- **Age:** Newly identified HIV-positive partners in every age group had a linkage to HIV medical care rate of 92% or greater. All three newly identified HIV-positive partners under 13 were linked (Table 7).
- **Gender:** Female and male newly identified HIV-positive partners had similar linkage to HIV medical care rates at 98% and 97%, respectively. All three newly identified HIV-positive of transgender partners were linked (Table 7).
- **Race/Ethnicity:** Newly identified HIV-positive black/African American and white partners (both 97%) were linked at a slightly higher rate than newly identified HIV-positive Hispanic/Latino partners (96%) (Table 7).
- **U.S. Geographic Region:** All newly identified HIV-positive partners who lived in U.S. Dependent Areas (35) were linked to HIV medical care. Percentages were over 95% in the other regions (Table 7).
- **Target Populations:** Among newly identified HIV-positive partners who could be categorized as one of the listed target populations, those categorized as PWID had the lowest linkage (86%) with all other linkage rates greater than 90% (Table 7).

Limitations

While partner services data reporting and quality are continuously improving, the interpretation of findings contained in this report was informed by the level of missing data on key variables and the factors that contributed to missing data.

In the 2016 partner services data, several key variables used to calculate program performance indicators had **missing data** ranging between **2% and 61%** of the total records.

- Enrollment Status for Index Patients **2%**
- Partner Notifiability **4%**
- Partner Notification **2%**
- HIV Test Performed for Partners **40%**
- Test Results for Partners **39%**
- Linkage to HIV Medical Care⁶ **61%**

This report focuses on “reported” percentages calculated by excluding missing data, thus probably overestimating the true values for the indicators, especially for those indicators with relatively high missing data (i.e., HIV Test Performed for Partners, Test Results for Partners, and Linkage to HIV Medical Care).

In addition, other important variables that are required to describe the indicators by demographic and other population groups (particularly behavioral risk) had a significant amount of missing data. While results for partner HIV testing, identification of previously undiagnosed HIV infections, and linkage to care for newly diagnosed HIV-positive persons indicate success, interpretations are limited by incompleteness of data. There is a need to further strengthen data systems to improve data completeness and our assessment of partner services program nationally.

There are at least two factors that contributed to missing data. The first is the varied data collection systems used by grantees. Although the NHM&E required variables are standardized, health departments use different systems for collecting and reporting partner services data. The majority of grantees use their own locally developed, adapted systems or utilize commercially available systems (e.g., PRISM, Maven, PartnerServicesWeb®), while 22% used some version of STD*MIS, a recently retired CDC data collection tool that did not capture 14 of the key variables needed to calculate partner services program performance indicators. HIV testing and linkage to HIV medical care variables for newly identified HIV-positive partners were also missing in some systems.

Secondly, tracking partners’ past and current HIV test results and their linkage to care is a complex, time- and labor-intensive activity. At a minimum, it requires data sharing between various providers and data systems that are continuously updated. While many health departments verbally report linking 100% of their newly identified partners to HIV medical care during the semi-annual quality assurance process, their partner services data submitted to CDC do not reflect this for a variety of reasons. For example, missing data on linkage to HIV medical care may be due to program infrastructure limitations, making it difficult to confirm if a person has attended their first HIV medical appointment. CDC has recently developed a more comprehensive data collection tool, the National Electronic Disease Surveillance (NEDSS) Base System or NBS, which is designed to connect state and local levels of public health to laboratories and health care providers. Several health departments have already implemented NBS and the enhanced data-sharing relationship should be helpful in increasing reporting and reducing the amount of missing information.

Summary

The activities involved in the partner services process are very important for identifying and linking persons diagnosed with HIV infections. Analysis of the 2016 data reveals that partner services programs have successfully interviewed index patients, elicited partner information, and notified partners of potential exposure to HIV. The minimum positivity rate of 5% (1,670 newly identified HIV-positive partners/33,294 total named partners) is supporting evidence that partner services is a high-yield strategy. However, this report also suggests that more emphasis be placed on getting HIV-exposed partners tested. Although most notifiable partners were notified of their potential HIV exposure and the notification rates among the 59 state and local health departments are very high, not all partners were tested for HIV. There may be partners who are not aware they are HIV-positive and will not be linked to HIV medical care and other services. Additional strategies or approaches should be used to get potentially exposed partners to confirm their HIV status.

TABLE 1. Overview of Key Partner Services Indicators, 59 Health Departments, 2016

Jurisdictions	Index Patients		Partners			
	Number of Index Patients	Index Patients Interviewed	Number of Partners	Partners Tested for HIV	Newly Identified HIV-Positive Partners	Newly Identified Partners Linked to Care
Alabama	873	278	684	12	2	2
Alaska	70	68	120	92	2	2
Arizona	1,332	1,142	845	280	23	13
Arkansas	425	407	199	102	6	0
California (excludes LA and SF)	3,337	314	385	124	3	0
Los Angeles	1,962	1,502	465	110	5	2
San Francisco	363	292	455	90	2	1
Colorado	396	370	450	244	43	36
Connecticut	146	133	63	25	2	2
Delaware	132	94	75	9	2	0
District of Columbia	393	160	69	15	2	0
Florida	8,094	7,095	2,814	1,481	322	62
Georgia (excludes Atlanta)	544	455	286	172	23	7
Atlanta	399	261	153	69	18	4
Hawaii	64	43	30	3	0	0
Idaho	82	47	82	1	0	0
Illinois (excludes Chicago)	368	77	72	5	0	0
Chicago	354	277	201	118	0	0
Indiana	59	50	61	61	32	25
Iowa	147	114	266	143	12	3
Kansas	111	96	458	75	75	64
Kentucky	487	410	611	121	1	0
Louisiana	1,886	783	700	237	15	5
Maine	72	26	33	6	0	0
Maryland (excludes Baltimore)	1,744	1,412	619	268	8	1
Baltimore	620	487	218	83	7	3
Massachusetts	132	67	7	4	0	0
Michigan	1,048	662	420	79	14	9
Mississippi	695	685	82	55	17	10

Jurisdictions	Index Patients		Partners			
	Number of Index Patients	Index Patients Interviewed	Number of Partners	Partners Tested for HIV	Newly Identified HIV-Positive Partners	Newly Identified Partners Linked to Care
Missouri	525	475	562	184	20	11
Montana	23	18	36	16	2	1
Nebraska	58	42	44	13	1	0
Nevada	1,168	1,127	942	248	13	12
New Jersey	445	199	292	60	16	10
New Mexico	154	138	119	65	5	4
New York (excludes NYC)	761	555	550	199	26	22
New York City	2,751	2,479	1,236	154	26	25
North Carolina	1,984	1,689	1,899	188	168	37
North Dakota	51	51	48	0	0	0
Ohio ^a	905	412	751	58	42	29
Oklahoma	303	294	38	32	32	6
Oregon	282	182	258	104	28	0
Pennsylvania (excludes Philadelphia)	502	459	277	155	131	86
Philadelphia	995	701	718	223	12	9
Rhode Island	79	77	51	39	1	1
South Carolina	636	603	397	333	202	89
South Dakota ^a	67	66	67	35	6	6
Tennessee	1,079	991	527	292	72	0
Texas (includes Houston)	6,886	5,598	5,787	3,735	34	0
Utah ^a	117	99	154	74	2	2
Vermont	1	0	0	0	0	0
Virginia ^a	771	634	531	70	1	0
Washington	1,221	643	642	150	14	0
West Virginia	51	51	85	25	0	0
Wisconsin ^a	529	179	206	55	3	3
Wyoming	132	67	7	4	0	0
Puerto Rico	1,048	662	420	79	14	9
U.S. Virgin Islands	695	685	82	55	17	10

^aDenotes aggregate data provided to CDC

TABLE 2. Index Patients Offered Partner Services, 59 Health Departments, 2016

Jurisdictions	Number of Index Patients	Number of Index Patients Eligible for PS		Number of Index Patients Located			Number of Index Patients Interviewed		
		N	%	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
Alabama	873	871	99.8	423	871	48.6	278	278	100.0
Alaska	70	70	100.0	68	70	97.1	68	68	100.0
Arizona	1,332	1,330	99.8	1,153	1,329	86.8	1,142	1,153	99.0
Arkansas	425	425	100.0	407	425	95.8	407	407	100.0
California (excludes LA SF)	3,377	3,377	100.0	3,377	3,377	100.0	314	3,377	9.3
Los Angeles	1,962	1,955	99.6	1,540	1,955	78.8	1,502	1,539	97.6
San Francisco	363	362	99.7	302	360	83.9	292	302	96.7
Colorado	396	396	100.0	396	396	100.0	370	396	93.4
Connecticut	146	146	100.0	143	146	97.9	133	142	93.7
Delaware	132	123	93.2	105	122	86.1	94	103	91.3
District of Columbia	393	385	98.0	176	291	60.5	160	162	98.8
Florida	8,094	8,094	100.0	7,145	8,094	88.3	7,095	7,145	99.3
Georgia (excludes Atlanta)	544	541	99.4	455	541	84.1	455	455	100.0
Atlanta	399	399	100.0	261	399	65.4	261	261	100.0
Hawaii	64	62	96.9	56	58	96.6	43	55	78.2
Idaho	82	82	100.0	59	82	72.0	47	50	94.0
Illinois (excludes Chicago)	368	323	87.8	104	323	32.2	77	100	77.0
Chicago	354	354	100.0	301	354	85.0	277	301	92.0
Indiana	59	59	100.0	50	59	84.7	50	50	100.0
Iowa	147	145	98.6	143	143	100.0	114	143	79.7
Kansas	111	111	100.0	111	111	100.0	96	111	86.5
Kentucky	487	487	100.0	456	487	93.6	410	456	89.9
Louisiana	1,886	1,808	95.9	998	1,808	55.2	783	998	78.5
Maine	72	72	100.0	48	72	66.7	26	26	100.0
Maryland (excludes Baltimore)	1,744	1,744	100.0	1,525	1,744	87.4	1,412	1,486	95.0
Baltimore	620	620	100.0	530	620	85.5	487	499	97.6
Massachusetts	132	132	100.0	100	128	78.1	67	75	89.3
Michigan	1,048	1,041	99.3	916	1,001	91.5	662	867	76.4
Mississippi	695	695	100.0	690	695	99.3	685	690	99.3
Missouri	525	524	99.8	502	524	95.8	475	502	94.6

Jurisdictions	Number of Index Patients	Number of Index Patients Eligible for PS		Number of Index Patients Located			Number of Index Patients Interviewed		
		N	%	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
Montana	23	23	100.0	23	23	100.0	18	19	94.7
Nebraska	58	58	100.0	57	58	98.3	42	49	85.7
Nevada	1,168	1,167	99.9	1,167	1,167	100.0	1,127	1,167	96.6
New Jersey	445	426	95.7	332	426	77.9	199	317	62.8
New Mexico	154	154	100.0	138	154	89.6	138	138	100.0
New York (excludes NYC)	761	745	97.9	592	737	80.3	555	587	94.5
New York City	2,751	2,690	97.8	2,568	2,690	95.5	2,479	2,568	96.5
North Carolina	1,984	1,984	100.0	1,689	1,984	85.1	1,689	1,689	100.0
North Dakota	51	51	100.0	51	51	100.0	51	51	100.0
Ohio	905	905	100.0	412	412	100.0	412	412	100.0
Oklahoma	303	303	100.0	294	294	100.0	294	294	100.0
Oregon	282	277	98.2	182	277	65.7	182	182	100.0
Pennsylvania (excludes Philadelphia)	502	502	100.0	459	501	91.6	459	459	100.0
Philadelphia	995	989	99.4	828	989	83.7	701	828	84.7
Rhode Island	79	79	100.0	78	78	100.0	77	78	98.7
South Carolina	636	636	100.0	636	636	100.0	603	636	94.8
South Dakota	89	89	100.0	76	76	100.0	68	76	89.5
Tennessee	1,079	1,079	100.0	1,008	1,079	93.4	991	1,008	98.3
Texas (includes Houston)	6,886	6,860	99.6	5,893	6,860	85.9	5,598	5,893	95.0
Utah	260	254	97.7	154	254	60.6	131	154	85.1
Vermont	1	1	100.0	0	0	N/A	N/A	N/A	N/A
Virginia	771	768	99.6	721	767	94.0	634	721	87.9
Washington	1,221	1,210	99.1	963	1,208	79.7	643	680	94.6
West Virginia	51	51	100.0	51	51	100.0	51	51	100.0
Wisconsin	548	548	100.0	262	539	48.6	262	262	100.0
Wyoming	18	18	100.0	18	18	100.0	14	14	100.0
Puerto Rico	337	337	100.0	336	337	99.7	330	333	99.1
U.S. Virgin Islands	8	8	100.0	8	8	100.0	7	8	87.5
TOTAL	49,266	48,945	99.3	41,536	48,259	86.1	36,037	40,871	88.2

^aReported denominator excludes missing data.

^bReported percentage excludes missing data.

Table 3. Demographic and Risk Behavior Characteristics of Index Patients Offered Partner Services, 59 Health Departments, 2016

Demographic and Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
AGE								
<13	63	0.1	49	61	80.3	9	18	50.0
13-19	999	2.2	880	972	90.5	800	873	91.6
20-29	15,514	34.6	13,428	15,248	88.1	12,086	13,259	91.2
30-39	12,861	28.7	10,916	12,696	86.0	9,462	10,755	88.0
40-49	8,498	18.9	7,178	8,400	85.5	5,956	7,042	84.6
50+	10,532	23.5	8,882	10,411	85.3	7,545	8,721	86.5
Missing/Invalid	478	1.1	203	471	43.1	179	203	88.2
GENDER								
Male	39,908	89.0	33,989	39,350	86.4	29,167	33,456	87.2
Female	6,999	15.6	5,911	6,889	85.8	5,308	5,786	91.7
Transgender	504	1.1	440	492	89.4	374	437	85.6
Other	2	0.0	1	2	50.0	1	1	100.0
Declined/Not Asked	1,516	3.4	1,184	1,512	78.3	1,176	1,180	99.7
Missing/Invalid	16	0.0	11	14	78.6	11	11	100.0
RACE/ETHNICITY								
White	13,582	30.3	11,544	13,349	86.5	9,389	11,327	82.9
Black or African American	21,048	46.9	17,673	20,708	85.3	16,153	17,367	93.0
Hispanic or Latino	10,653	23.8	9,443	10,620	88.9	8,298	9,371	88.5
Asian	888	2.0	795	877	90.6	606	774	78.3
American Indian or Alaska Native	266	0.6	234	263	89.0	217	232	93.5
Native Hawaiian or Pacific Islander	87	0.2	83	87	95.4	59	83	71.1
Multi-race	312	0.7	292	310	94.2	237	292	81.2
Declined	45	0.1	33	40	82.5	19	29	65.5
Don't Know	1,701	3.8	1,151	1,655	69.5	836	1,135	73.7
Missing/Invalid	363	0.8	288	350	82.3	223	261	85.4

Demographic and Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
REGION								
Northeast	5,782	12.9	5,148	5,767	89.3	4,696	5,080	92.4
Midwest	4,208	9.4	2,985	3,651	81.8	2,586	2,924	88.4
South	27,873	62.2	23,463	27,768	84.5	22,387	23,232	96.4
West	10,737	23.9	9,596	10,728	89.4	6,031	9,294	64.9
U.S. Dependent Areas	345	0.8	344	345	99.7	337	341	98.8
TARGET POPULATION								
MSM/PWID	1,054	2.4	996	1,044	95.4	834	991	84.2
MSM	21,703	48.4	20,802	21,471	96.9	18,366	20,721	88.6
Transgender/PWID	22	0.0	21	22	95.5	18	21	85.7
Transgender	482	1.1	419	470	89.1	356	416	85.6
PWID	764	1.7	714	745	95.8	640	704	90.9
Heterosexual Men	4,121	9.2	3,967	4,061	97.7	3,705	3,938	94.1
Heterosexual Women	3,909	8.7	3,774	3,872	97.5	3,568	3,748	95.2
No Risk	2,322	5.2	1,969	2,282	86.3	1,477	1,948	75.8
Missing/Invalid	14,568	32.5	8,874	14,292	62.1	7,073	8,384	84.4
TOTAL	48,945	109.1	41,536	48,259	86.1	36,037	40,871	88.2

^aReported denominator excludes missing data.

^bReported percentage excludes missing data.

Table 4. Partners Elicited by and Tested Through Partner Services, 59 Health Departments, 2016

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable			Notified Partners			Notified Partners Tested		
	N	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
Alabama	684	21	67	31.3	21	21	100.0	12	12	100.0
Alaska	120	118	120	98.3	118	118	100.0	92	92	100.0
Arizona	845	800	845	94.7	797	797	100.0	280	283	98.9
Arkansas	199	195	199	98.0	195	195	100.0	102	113	90.3
California (ex LA SF)	385	318	385	82.6	315	318	99.1	124	136	91.2
Los Angeles	465	372	461	80.7	371	371	100.0	110	371	29.6
San Francisco	455	385	455	84.6	334	362	92.3	90	219	41.1
Colorado	450	314	450	69.8	312	314	99.4	244	311	78.5
Connecticut	63	61	62	98.4	55	55	100.0	25	25	100.0
Delaware	75	60	75	80.0	57	58	98.3	9	9	100.0
District of Columbia	69	39	68	57.4	37	39	94.9	15	25	60.0
Florida	2,814	2,601	2,814	92.4	2,600	2,601	100.0	1,481	1,545	95.9
Georgia (ex Atlanta)	286	283	286	99.0	280	280	100.0	172	280	61.4
Atlanta	153	143	153	93.5	142	142	100.0	69	142	48.6
Hawaii	30	24	29	82.8	24	24	100.0	3	3	100.0
Idaho	82	74	75	98.7	74	74	100.0	1	1	100.0
Illinois (ex Chicago)	72	53	72	73.6	52	53	98.1	5	52	9.6
Chicago	201	201	201	100.0	201	201	100.0	118	127	92.9
Indiana	61	61	61	100.0	61	61	100.0	61	61	100.0
Iowa	266	264	264	100.0	263	263	100.0	143	205	69.8
Kansas	458	458	458	100.0	75	458	16.4	75	75	100.0
Kentucky	611	611	611	100.0	611	611	100.0	121	145	83.4
Louisiana	700	499	700	71.3	497	499	99.6	237	497	47.7
Maine	33	16	21	76.2	6	6	100.0	6	6	100.0
Maryland (ex Baltimore)	619	618	619	99.8	618	618	100.0	268	289	92.7
Baltimore	218	216	218	99.1	216	216	100.0	83	83	100.0
Massachusetts	7	5	5	100.0	5	5	100.0	4	4	100.0
Michigan	420	363	416	87.3	238	247	96.4	79	79	100.0
Mississippi	82	82	82	100.0	82	82	100.0	55	55	100.0
Missouri	562	298	562	53.0	284	286	99.3	184	253	72.7

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable				Notified Partners			Notified Partners Tested		
	N	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %	
Montana	36	31	36	86.1	31	31	100.0	16	16	100.0	
Nebraska	44	36	41	87.8	35	35	100.0	13	13	100.0	
Nevada	942	275	942	29.2	271	272	99.6	248	249	99.6	
New Jersey	292	164	292	56.2	130	156	83.3	60	87	69.0	
New Mexico	119	118	119	99.2	118	118	100.0	65	66	98.5	
New York (ex NYC)	550	287	550	52.2	276	276	100.0	199	220	90.5	
New York City	1,236	761	1,236	61.6	749	755	99.2	154	380	40.5	
North Carolina	1,899	1,837	1,899	96.7	1,745	1,745	100.0	188	188	100.0	
North Dakota	48	18	48	37.5	0	0	N/A	N/A	N/A	N/A.	
Ohio	751	497	751	66.2	427	434	98.4	58	61	95.1	
Oklahoma	38	35	35	100.0	35	35	100.0	32	35	91.4	
Oregon	258	122	258	47.3	104	104	100.0	104	104	100.0	
Pennsylvania (ex Philadelphia)	277	277	277	100.0	163	277	58.8	155	163	95.1	
Philadelphia	718	281	718	39.1	281	281	100.0	223	281	79.4	
Rhode Island	51	51	51	100.0	51	51	100.0	39	39	100.0	
South Carolina	397	396	396	100.0	394	396	99.5	333	394	84.5	
South Dakota	38	31	31	100.0	31	31	100.0	26	31	83.9	
Tennessee	527	527	527	100.0	488	527	92.6	292	488	59.8	
Texas (inc Houston)	5,787	5,787	5,787	100.0	5,787	5,787	100.0	3,735	3,800	98.3	
Utah	210	210	210	100.0	210	210	100.0	210	210	100.0	
Vermont	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Virginia	531	346	438	79.0	338	338	100.0	70	71	98.6	
Washington	642	316	329	96.0	199	199	100.0	150	151	99.3	
West Virginia	85	75	85	88.2	70	75	93.3	25	25	100.0	
Wisconsin	297	194	297	65.3	175	182	96.2	68	68	100.0	
Wyoming	8	8	8	100.0	8	8	100.0	8	8	100.0	
Puerto Rico	503	387	491	78.8	380	380	100.0	230	234	98.3	
U.S. Virgin Islands	10	5	6	83.3	5	5	100.0	1	1	100.0	
TOTAL	27,779	22,625	26,692	84.8	21,442	22,083	97.1	10,970	12,881	85.2	

^aReported denominator excludes missing data. ^bReported percentage excludes missing data.

Table 5. Demographic and Risk Behavior Characteristics of Partners Elicited by and Tested Through Partner Services, 59 Health Departments, 2016

Demographic and Risk Characteristics	Named Partners Initiated for PS		Named Partners Who Were Notifiable			Notified Partners			Notified Partners Tested for HIV		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
AGE											
<13	32	0.1	29	32	90.6	24	29	82.8	12	18	66.7
13-19	512	1.7	431	494	87.2	409	419	97.6	290	321	90.3
20-29	8,942	29.2	7,453	8,633	86.3	7,136	7,364	96.9	4,271	4,896	87.2
30-39	6,508	21.3	5,306	6,292	84.3	5,116	5,252	97.4	2,923	3,391	86.2
40-49	3,398	11.1	2,786	3,297	84.5	2,687	2,760	97.4	1,490	1,747	85.3
50+	4,706	15.4	4,111	4,612	89.1	3,935	3,988	98.7	1,437	1,655	86.8
Missing/Invalid	3,681	12.0	2,509	3,332	75.3	2,135	2,271	94.0	547	853	64.1
GENDER											
Male	21,866	71.5	17,556	20,998	83.6	16,704	17,212	97.0	8,574	10,146	84.5
Female	4,221	13.8	3,574	4,046	88.3	3,406	3,498	97.4	2,111	2,392	88.3
Transgender	112	0.4	83	110	75.5	72	78	92.3	35	48	72.9
Other	12	0.0	11	12	91.7	11	11	100.0	0	11	.
Declined/Not Asked	1,501	4.9	1,350	1,459	92.5	1,231	1,235	99.7	242	275	88.0
Missing/Invalid	67	0.2	51	67	76.1	18	49	36.7	8	9	88.9
RACE/ETHNICITY											
White	8,102	26.5	6,762	7,809	86.6	6,286	6,604	95.2	3,297	3,805	86.6
Black or African American	11,088	36.3	8,963	10,554	84.9	8,616	8,776	98.2	4,080	4,939	82.6
Hispanic or Latino	5,354	17.5	4,582	5,280	86.8	4,470	4,539	98.5	2,676	2,948	90.8
Asian	285	0.9	225	274	82.1	208	217	95.9	109	129	84.5
American Indian or Alaska Native	184	0.6	161	178	90.4	157	157	100.0	83	94	88.3
Native Hawaiian or Pacific Islander	45	0.1	36	42	85.7	33	34	97.1	18	21	85.7
Multi-race	184	0.6	143	173	82.7	137	139	98.6	60	73	82.2
Declined	60	0.2	55	59	93.2	54	54	100.0	11	51	21.6
Don't Know	1,963	6.4	1,400	1,921	72.9	1,276	1,315	97.0	484	660	73.3
Missing/Invalid	514	1.7	298	402	74.1	205	248	82.7	152	161	94.4

Demographic and Risk Characteristics	Named Partners Initiated for PS		Named Partners Who Were Notifiable			Notified Partners			Notified Partners Tested for HIV		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
REGION											
Northeast	3,227	10.6	1,903	3,212	59.2	1,716	1,862	92.2	865	1,205	71.8
Midwest	3,218	10.5	2,474	3,202	77.3	1,842	2,251	81.8	830	1,025	81.0
South	15,774	51.6	14,371	15,059	95.4	14,213	14,265	99.6	7,299	8,196	89.1
West	5,047	16.5	3,485	4,722	73.8	3,286	3,320	99.0	1,745	2,220	78.6
U.S. Dependent Areas	513	1.7	392	497	78.9	385	385	100.0	231	235	98.3
TARGET POPULATION											
MSM/PWID	185	0.6	131	171	76.6	127	127	100.0	95	101	94.1
MSM	4,193	13.7	3,434	4,140	82.9	3,349	3,381	99.1	2,079	2,461	84.5
Transgender/PWID	3	0.0	0	3	0	N/A	N/A	N/A	N/A	N/A	N/A
Transgender	109	0.4	83	107	77.6	72	78	92.3	35	48	72.9
PWID	179	0.6	151	168	89.9	145	146	99.3	114	122	93.4
Heterosexual Men	845	2.8	732	835	87.7	707	721	98.1	482	567	85.0
Heterosexual Women	938	3.1	823	928	88.7	805	810	99.4	557	667	83.5
No Risk	775	2.5	491	769	63.8	463	478	96.9	327	366	89.3
Missing/Invalid	20,552	67.2	16,780	19,571	85.7	15,774	16,342	96.5	7,281	8,549	85.2
TOTAL	27,779	90.9	22,625	26,692	84.8	21,442	22,083	97.1	10,970	12,881	85.2

Table 6. Newly Identified HIV-positive Partners Linked to HIV Medical Care, 59 Health Departments, 2016

Jurisdictions	Notified Partners Tested	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
Alabama	12	2	6	33.3	2	2	100.0
Alaska	92	2	89	2.2	2	2	100.0
Arizona	280	23	275	8.4	13	13	100.0
Arkansas	102	6	101	5.9	0	0	N/A
California (ex LA SF)	124	3	83	3.6	0	2	0.0
Los Angeles	110	5	99	5.1	2	3	66.7
San Francisco	90	2	88	2.3	1	1	100.0
Colorado	244	43	236	18.2	36	36	100.0
Connecticut	25	2	25	8.0	2	2	100.0
Delaware	9	2	9	22.2	0	0	N/A
District of Columbia	15	2	10	20.0	0	0	N/A
Florida	1,481	322	1,433	22.5	62	66	93.9
Georgia (ex Atlanta)	172	23	172	13.4	7	8	87.5
Atlanta	69	18	68	26.5	4	4	100.0
Hawaii	3	0	3	0.0	N/A	N/A	N/A
Idaho	1	0	0	N/A	N/A	N/A	N/A
Illinois (ex Chicago)	5	0	5	0.0	N/A	N/A	N/A
Chicago	118	0	1	0.0	N/A	N/A	N/A
Indiana	61	32	39	82.1	25	32	78.1
Iowa	143	12	133	9.0	3	3	100.0
Kansas	75	75	75	100.0	64	64	100.0
Kentucky	121	1	1	100.0	0	0	N/A
Louisiana	237	15	235	6.4	5	6	83.3
Maine	6	0	6	0.0	N/A	N/A	N/A
Maryland (ex Baltimore)	268	8	261	3.1	1	1	100.0
Baltimore	83	7	76	9.2	3	3	100.0
Massachusetts	4	0	4	0.0	N/A	N/A	N/A
Michigan	79	14	77	18.2	9	9	100.0
Mississippi	55	17	55	30.9	10	11	90.9
Missouri	184	20	184	10.9	11	11	100.0

Jurisdictions	Notified Partners Tested	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
Montana	16	2	15	13.3	1	1	100.0
Nebraska	13	1	13	7.7	0	0	N/A
Nevada	248	13	242	5.4	12	12	100.0
New Jersey	60	16	57	28.1	10	10	100.0
New Mexico	65	5	65	7.7	4	4	100.0
New York (ex NYC)	199	26	199	13.1	22	22	100.0
New York City	154	26	154	16.9	25	26	96.2
North Carolina	188	168	188	89.4	37	37	100.0
North Dakota	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ohio	58	42	57	73.7	29	29	100.0
Oklahoma	32	32	32	100.0	6	6	100.0
Oregon	104	28	104	26.9	0	0	N/A
Pennsylvania (ex Philadelphia)	155	131	154	85.1	86	86	100.0
Philadelphia	223	12	221	5.4	9	10	90.0
Rhode Island	39	1	39	2.6	1	1	100.0
South Carolina	333	202	331	61.0	89	89	100.0
South Dakota	26	4	13	30.8	0	0	N/A
Tennessee	292	72	283	25.4	0	0	N/A
Texas (includes Houston)	3,735	34	67	50.7	0	0	N/A
Utah	210	131	131	100.0	0	0	N/A
Vermont	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Virginia	70	1	9	11.1	0	0	N/A
Washington	150	14	143	9.8	0	0	N/A
West Virginia	25	0	2	0.0	N/A	N/A	N/A
Wisconsin	68	1	64	1.6	1	1	100.0
Wyoming	8	1	6	16.7	0	0	N/A
Puerto Rico	230	50	221	22.6	35	35	100.0
U.S. Virgin Islands	1	1	1	100.0	0	0	N/A
TOTAL	10,970	1,670	6,660	25.1	629	648	97.1

^aReported denominator excludes missing data. ^bReported percentage excludes missing data.

Table 7. Demographic and Risk Behavior Characteristics of Newly Identified HIV-positive Partners Linked to HIV Medical Care, 59 Health Departments, 2016

Demographic and Risk Characteristics	Notified Partners Tested		Partners Newly Identified as HIV-positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
AGE								
<13	12	0.1	5	11	45.5	3	3	100.0
13-19	290	2.1	29	195	14.9	12	13	92.3
20-29	4,271	30.5	585	2,574	22.7	273	282	96.8
30-39	2,923	20.9	417	1,754	23.8	162	164	98.8
40-49	1,490	10.6	202	874	23.1	58	62	93.5
50+	1,437	10.3	330	987	33.4	94	97	96.9
Missing/Invalid	547	3.9	102	265	38.5	27	27	100.0
GENDER								
Male	8,574	61.2	1,250	5,033	24.8	484	501	96.6
Female	2,111	15.1	242	1,382	17.5	104	106	98.1
Transgender	35	0.2	11	34	32.4	3	3	100.0
Declined/Not Asked	242	1.7	166	204	81.4	38	38	100.0
Missing/Invalid	8	0.1	1	7	14.3	0	0	N/A
RACE/ETHNICITY								
White	3,297	23.5	516	2,093	24.7	191	197	97.0
Black or African American	4,080	29.1	690	2,603	26.5	256	264	97.0
Hispanic or Latino	2,676	19.1	302	1,324	22.8	133	138	96.4
Asian	109	0.8	7	72	9.7	5	5	100.0
American Indian or Alaska Native	83	0.6	15	71	21.1	5	5	100.0
Native Hawaiian or Pacific Islander	18	0.1	3	13	23.1	0	0	N/A
Multi-race	60	0.4	14	40	35.0	6	6	100.0
Declined	11	0.1	1	11	9.1	0	0	N/A
Don't Know	484	3.5	62	314	19.7	32	32	100.0
Missing/Invalid	152	1.1	60	119	50.4	1	1	100.0

Demographic and Risk Characteristics	Notified Partners Tested		Partners Newly Identified as HIV-positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
	N	Column %	N	Reported ^a Denominator	Reported ^b %	N	Reported ^a Denominator	Reported ^b %
REGION								
Northeast	865	6.2	214	859	24.9	155	157	98.7
Midwest	830	5.9	201	661	30.4	142	149	95.3
South	7,299	52.1	932	3,339	27.9	226	233	97.0
West	1,745	12.4	272	1,579	17.2	71	74	95.9
U.S. Dependent Areas	231	1.6	51	222	23.0	35	35	100.0
TARGET POPULATION								
MSM/PWID	95	0.7	22	65	33.8	14	14	100.0
MSM	2,079	14.8	612	1,587	38.6	249	256	97.3
Transgender/PWID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Transgender	35	0.2	11	34	32.4	3	3	100.0
PWID	114	0.8	35	100	35.0	19	22	86.4
Heterosexual Men	482	3.4	101	395	25.6	44	49	89.8
Heterosexual Women	557	4.0	120	449	26.7	52	53	98.1
No Risk	327	2.3	95	314	30.3	27	27	100.0
Missing/Invalid	7,281	51.9	674	3,716	18.1	221	224	98.7
TOTAL	10,970	78.3	1,670	6,660	25.1	629	648	97.1

^aReported denominator excludes missing data.

^bReported percentage excludes missing data.