

PARTNER SERVICES ANNUAL REPORT 2015

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

Division of HIV/AIDS Prevention

Program Evaluation Branch

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Partner Services

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Report Highlights*

45,481

Index patients were identified across all HIV Partner Services programs.

Of the **38,692** located, eligible¹ index patients with enrollment status (592 records were excluded for missing data) **87% (33,794) were interviewed for HIV Partner Services.**

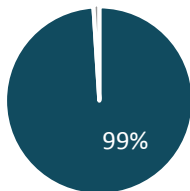


34,137 partners were named by index patients across all HIV Partner Services programs.



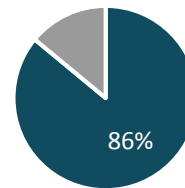
90% (30,565) were initiated² for HIV Partner Services. Of those initiated, 2,752 were not notifiable³ and 1,176 records were excluded for missing data. **26,637 partners (91%)** were notifiable.

Of the **25,915** notifiable partners with a notification status, **99% (25,806) were notified of their potential HIV exposure.**



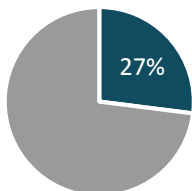
3% (722) notifiable partner records excluded for missing data

Of the **16,242** notified partners with HIV test information, **86% (14,015) were tested for HIV.**



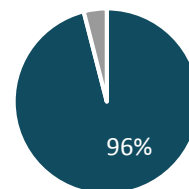
37% (9,564) notified partner records excluded for missing data

Of the **7,195** partners tested with a documented HIV test result, **27% (1,908) were newly identified⁴ as HIV-positive. Of the total named partners, an overall yield of 5.6% newly identified positivity rate was achieved (1,908/34,137).**



49% (6,820) tested partner records excluded for missing data

Of the **551** newly identified HIV positive partners with follow-up information, **96% (527) were linked to HIV medical care⁵.**



71% (1,357) newly identified HIV positive partner records excluded for missing data or unconfirmed care status

*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.

² 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.

³ Partners that are not known to be HIV-positive, out of jurisdiction, deceased, or potentially violent.

⁴ 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.

⁵ 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 2015, approximately 40,000 people were 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 medical care, and still others were linked to 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, where they can receive treatment with antiretroviral therapy (ART); and help them remain in care.

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 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 drug-injection partners who may also be infected, or may be at very high risk for becoming infected. 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 2015 client-level partner services data submitted by CDC-funded jurisdictions in the United States and dependent areas (Puerto Rico and U.S. Virgin Islands).



¹ Diagnoses of HIV infection in the United States and dependent areas, 2015. HIV Surveillance Report 2016;27

Methods

Health departments collect standardized client-level National HIV Prevention Program Monitoring & Evaluation (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 population², and geographic region³ as defined by the U.S. Census Bureau. Risk data used to define target population is only required and reported for individuals diagnosed as HIV-positive.

Analyses for all tables and figures in this report are based on NHM&E client-level partner services data except for Table 1 that also includes aggregate-level 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, 2015. The following partner services program indicators are reported:

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 reported⁴ percentages, calculated by excluding missing data, thus possibly overestimating the true values for the indicators.

² 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

³ 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

⁴ 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.

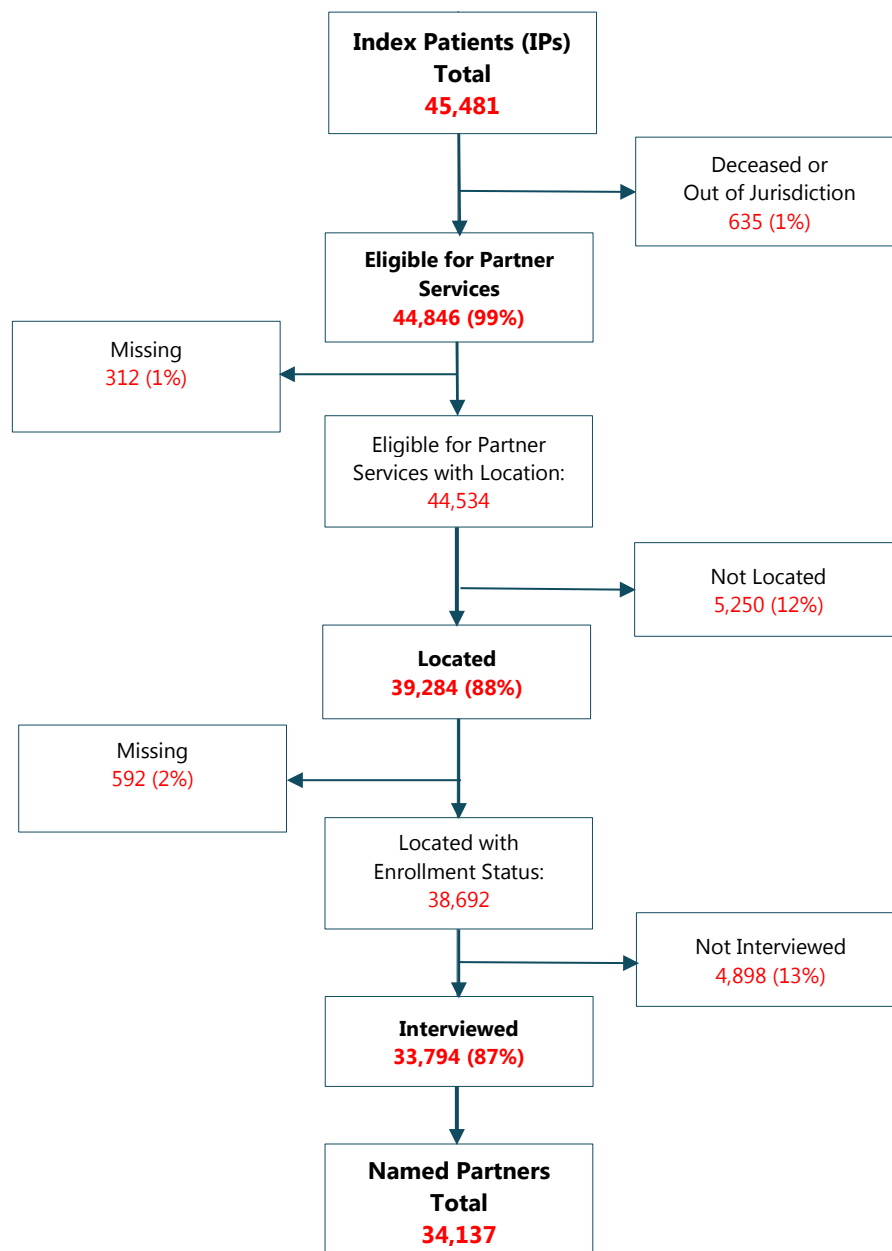
Findings

This report summarizes the 2015 client-level partner services data from 59 of the 61 CDC funded jurisdictions in the United States and dependent areas (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 15, 2016 EvaluationWeb® data transfer to CDC.

Index Patients

The following flowchart represents the calculated index patient indicators used to answer key partner services program evaluation questions.

Figure 1 Flowchart of the 2015 Partner Services Index Patient Indicators



Who Was Eligible for Partner Services?

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 (32%) followed by 30-39 (26%). Only 2% of index patients were younger than 19 years (Table 3).
- **Gender:** The majority of index patients were male (83%), with females and transgender persons accounting for 15% and 1% respectively (Table 3).
- **Race/Ethnicity:** A large percentage of index patients were black/African American (42%), followed by white (28%), and Hispanic/Latino (22%) (Table 3).
- **U.S. Geographic Region:** More than half (54%) of the index patients lived in the South (Table 3).
- **Target Population:** Men who have sex with men (MSM) accounted for 46% of index patients in 2015. However, behavioral risk information for a large proportion of index patients was missing, not asked, or unknown (27%) (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*

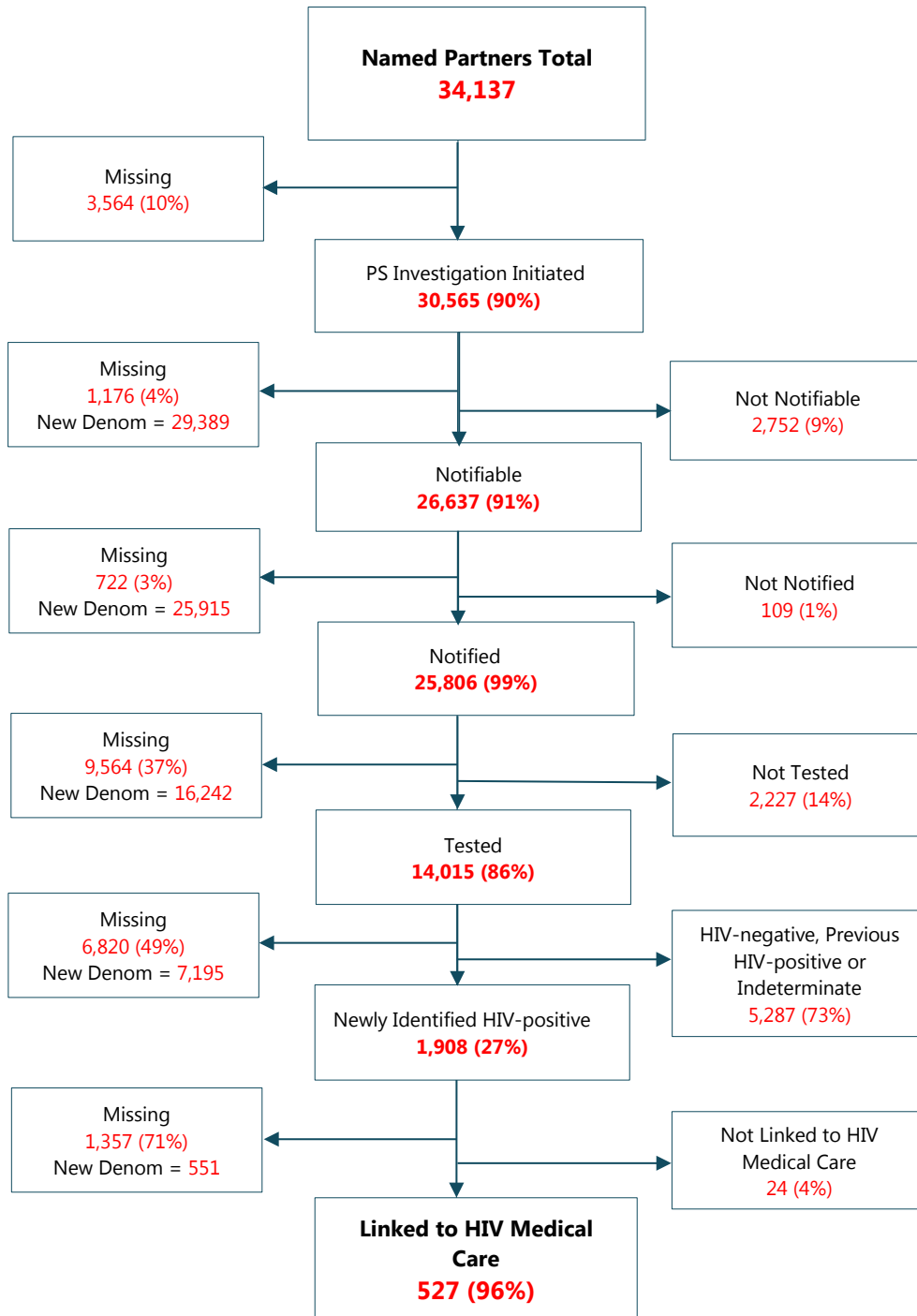
A total of 39,284 (88%) eligible index patients were located. Of those 38,692 with a reported partner services enrollment status, **33,794 (87%)** were **interviewed to elicit partner names** (Table 2).

- **Age:** Eligible index patients aged 13-19 were most often located and interviewed (92% and 94%, respectively) (Table 3).
- **Gender:** Females, males and transgender persons were all located at the same rate (88%), but a greater percentage of females were interviewed (91%) than males (87%) and transgender persons (76%) (Table 3).
- **Race/Ethnicity:** Blacks/African Americans were interviewed for partner services more frequently (93%) than whites (82%) and Hispanics/Latinos (85%) (Table 3).
- **U.S. Geographic Region:** 94% of index patients residing in the West were located for partner services, with the lowest rate reported in the Midwest (78%). The West had the lowest percentage of partner services interviews conducted at 63% (Table 3).
- **Target Population:** Although located at similar rates, MSM index patients were interviewed less frequently (88%) than heterosexual men and heterosexual women (91% and 94%, respectively). Transgender/IDU (injection drug users), transgender persons and those indicating “no risk” were the least interviewed (44%, 78% and 69%, respectively) (Table 3).

Partners

34,137 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.

Figure 2. Flowchart of the 2015 Partner Services Partner Indicators



Data Source: NHM&E Partner Services data (January 1, 2015-December 31, 2015) as of September 16, 2016

How Effective Are Partner Services Programs In Notifying Partners Of Their Potential HIV Exposure?

Indicator: *Percentage of notifiable partners who were notified*

Of the 34,137 partners that were named, 30,565 (90%) were initiated for partner services. Of the partners that were initiated for partner services 2,752 (9%) were excluded because they were either previously known to be HIV-positive, out of jurisdiction, deceased, or potentially violent. Another 1,176 records (4%) contained missing data. The remaining 26,637 (91%) were considered notifiable. Of the 25,915 notifiable partners with complete data, a total of, **25,806 (>99%)** were **notified of their potential HIV exposure** (Table 4).

- **Age:** The majority of partners initiated for partner services were in the age groups 20-29 and 30-39 (34% and 24%, respectively) (Table 5).
- **Gender:** Of the partners initiated for partner services, (82%) were males and 16% were females. Transgender persons accounted for less than 1% of initiated partners (Table 5).
- **Race/Ethnicity:** The majority of partners initiated for partner services were either blacks/African Americans (42%) or whites (40%) while only 4% of those initiated were Hispanic/Latinos (Table 5).
- **U.S. Geographic Region:** The majority of partners initiated for partner services lived in the South (57%), followed by the West (18%), Northeast (15%) and Midwest (9%) (Table 5).
- **Target Population:** Risk data are only required for those partners who test HIV-positive. Of those with a complete risk profile, 15% of all the named partners initiated for partner services were MSM (Table 5).

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 16,242 notified partners with HIV test information (9,564 records were excluded for missing data), **86% (14,015) were tested for HIV** (Table 4). Of the 7,195 partners tested with a documented HIV test result (6,820 records were excluded for missing data), **27% (1,908) were newly identified as HIV-positive**. (Table 6). Even including all named partners into the denominator, CDC-funded partner services programs show a 5.6% yield of HIV-positive persons (1,908/34,137).

- **Age:** The largest number of notified partners was in the age group 20-29 and 89% were tested for HIV. At least 92% of notified partners 19 years of age or younger were tested for HIV (Table 5). The age groups 30-39 and 40-49 had lower percentages of being tested (85%) but the highest percentage of newly identified HIV-positive partners (28%) (Table 7).

- **Gender:** Notified female partners were tested for HIV (91%) more often than male partners (85%) and transgender partners (73%) (Table 5). However, 35% of transgender partners were newly identified as HIV-positive as compared to male partners (29%) and female partners (18%) (Table 7).
- **Race/Ethnicity:** Notified Hispanic partners were tested for HIV (95%) more often than white partners (87%), black/African American partners (87%) and Asian partners (82%) (Table 5). The majority of Hispanic/Latino partners tested were newly identified as HIV-positive (51%) (Table 7).
- **U.S. Geographic Region:** U.S. Dependent Areas had the highest percentage of notified partners tested for HIV (97%) (Table 5) and also the highest percentage (shared with the Midwest) of partners newly identified as HIV-positive (33%). (Table 7).
- **Target Population:** Notified heterosexual male partners and partners who inject drugs were tested for HIV (92%) more often than heterosexual female partners (89%), MSM partners (89%), MSM/IDU (84%) and transgender partners (74%) (Table 5). The largest percentages of newly diagnosed HIV-positive partners were among PWID (62%), MSM/IDU (50%), MSM (45%) as well as those with no risk identified (53%) (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 2015, a total of 1,908 partners were newly identified as HIV-positive from all partner services programs. Of the 551 newly identified HIV-positive partners with follow-up information to verify that services were accessed (1,357 records or 71% were excluded for missing data or a non-confirmed care status), **527 (96%)** 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 >93%; those aged 50+ had the highest at 100% (Table 7).
- **Gender:** While male and female newly identified HIV-positive partners had similar linkage to HIV medical care rates at 95% and 97% respectively, 100% of transgender partners were linked (Table 7).
- **Race/Ethnicity:** Hispanic/Latino newly identified HIV-positive partners (100%) were linked to HIV medical care at a higher rate than black/African American (96%) and white (94%) partners (Table 7).
- **U.S. Geographic Region:** Newly identified HIV-positive partners who lived in the Northeast and the U.S. Dependent Areas were 100% linked to HIV medical care. Rates were over 90% 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 (81%) 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 has to be informed by the level of missing data on key variables and the factors that contributed to missing data.

In the 2015 partner services data, several key variables used to calculate program performance indicators had **missing data** ranging between **2% and 71%** of the total records.

- Enrollment Status for Index Patients **2%**
- Partner Notifiability **4%**
- Partner Notification **3%**
- HIV Test Performed for Partners **37%**
- Test Results for Partners **49%**
- Linkage to HIV Medical Care⁵ **71%**

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 (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 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 our assessment of partner services program nationally. There are at least two factors that contributed to missing data. The first is related to 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 utilized 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.

⁵ The percentage for linkage to HIV medical care includes missing data as well as “pending”, “lost to follow-up”, “no follow-up” and “don’t know” options.

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, it is very likely that the high levels of missing data on linkage to HIV medical care is due to the lack of formal systems to confirm if a person has indeed attended their first HIV medical appointment or lack of a method to collect information (i.e., no designated place to enter the data in their local systems). 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.

The activities involved in the partner services process are very important for identifying and linking persons diagnosed with HIV infections. Analysis of the 2015 data revealed 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 5.6% (1,908 newly identified HIV-positive partners/34,137 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, 2015

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 ^a	268	262	383	184	29	16
Alaska	41	40	78	68	8	3
Arizona	1,298	990	721	180	19	4
Arkansas	267	235	164	78	12	1
California (excludes LA and SF)	3,612	354	551	197	19	11
Los Angeles	2,181	1,991	763	208	21	9
San Francisco	336	270	669	103	3	1
Colorado	342	310	371	197	33	28
Connecticut	84	73	39	15	3	1
Delaware	128	94	86	16	3	1
District of Columbia	158	50	9	4	3	0
Florida	7,754	6,482	3,804	2,305	527	42
Georgia (excludes Atlanta)	583	583	310	188	35	6
Atlanta	413	413	146	59	15	1
Hawaii	86	60	63	17	1	0
Idaho ^a	51	50	69	21	4	0
Illinois (excludes Chicago) ^a	336	72	73	3	0	1
Chicago ^a	1,231	943	616	205	18	0
Indiana	123	119	281	281	57	46
Iowa ^a	124	124	137	87	24	24
Kansas ^a	114	101	381	182	16	15
Kentucky	436	354	378	130	3	0
Louisiana	1,723	898	759	278	25	10
Maine	27	24	17	8	0	0
Maryland (excludes Baltimore)	1,329	1,160	530	256	49	18
Baltimore	498	422	258	144	39	16
Massachusetts	152	65	111	17	2	0
Michigan	250	174	73	7	2	0
Mississippi	708	680	904	537	63	33

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 ^a	455	357	481	171	15	15
Montana	18	14	36	11	4	3
Nebraska	72	54	56	14	6	0
Nevada ^a	919	901	1,080	1,059	24	17
New Jersey	441	235	278	52	8	3
New Mexico	187	171	197	85	8	5
New York (excludes NYC)	569	387	479	162	24	16
New York City	2,730	2,403	1,675	240	39	38
North Carolina ^a	2,205	1,821	2,324	1,448	241	59
North Dakota	25	19	20	0	0	0
Ohio ^a	824	731	598	253	25	23
Oklahoma*	298	269	697	340	24	2
Oregon	314	308	84	61	50	0
Pennsylvania (excludes Philadelphia)	410	354	276	108	96	72
Philadelphia ^a	984	719	872	215	10	8
Rhode Island	67	67	56	46	4	4
South Carolina	631	473	425	385	211	6
South Dakota	52	47	20	12	3	0
Tennessee ^a	657	642	959	477	25	0
Texas (includes Houston) ^a	6,268	5,336	6,386	4,255	225	147
Utah ^a	128	100	150	83	1	1
Vermont	1	1	0	0	0	0
Virginia	667	569	524	220	5	0
Washington	1,108	575	590	171	6	1
West Virginia	54	51	59	21	0	0
Wisconsin ^a	563	279	258	75	5	5
Wyoming	14	8	8	8	1	0
Puerto Rico ^a	394	391	414	189	37	23
U.S. Virgin Islands	7	4	4	2	0	0

^a Denotes aggregate data provided to CDC

TABLE 2. Index Patients Offered Partner Services, 59 Health Departments, 2015

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 Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Alabama	268	268	100.0	266	268	99.3	262	266	98.5
Alaska	41	41	100.0	40	41	97.6	40	40	100.0
Arizona	1,298	1,263	97.3	1,102	1,257	87.7	990	1,101	89.9
Arkansas	267	267	100.0	235	267	88.0	235	235	100.0
California (excludes LA and SF)	3,612	3,612	100.0	3,611	3,612	100.0	354	3,611	9.8
Los Angeles	2,181	2,180	100.0	2,113	2,180	96.9	1,991	2,013	98.9
San Francisco	336	336	100.0	282	336	83.9	270	282	95.7
Colorado	342	342	100.0	342	342	100.0	310	342	90.6
Connecticut	84	84	100.0	82	84	97.6	73	76	96.1
Delaware	128	124	96.9	107	124	86.3	94	106	88.7
District of Columbia	158	152	96.2	63	100	63.0	50	63	79.4
Florida	7,754	7,754	100.0	6,482	7,754	83.6	6,482	6,482	100.0
Georgia (excludes Atlanta)	583	583	100.0	583	583	100.0	583	583	100.0
Atlanta	413	413	100.0	413	413	100.0	413	413	100.0
Hawaii	86	85	98.8	80	85	94.1	60	80	75.0
Idaho	51	51	100.0	50	51	98.0	50	50	100.0
Illinois (excludes Chicago)	1,332	1,008	75.7	513	1,008	50.9	353	455	77.6
Chicago ^c	855	855	100.0	668	855	78.1	575	668	86.1
Indiana	123	123	100.0	120	123	97.6	119	119	100.0
Iowa ^c	110	109	99.1	107	107	100.0	83	106	78.3
Kansas ^c	114	114	100.0	113	114	99.1	.	113	.
Kentucky	436	436	100.0	399	436	91.5	354	399	88.7
Louisiana	1,723	1,628	94.5	1,055	1,628	64.8	898	1,055	85.1
Maine	27	27	100.0	27	27	100.0	24	27	88.9
Maryland (excludes Baltimore)	1,329	1,329	100.0	1,160	1,329	87.3	1,160	1,160	100.0
Baltimore	498	498	100.0	422	498	84.7	422	422	100.0
Massachusetts	152	152	100.0	148	151	98.0	65	79	82.3
Michigan	250	244	97.6	208	240	86.7	174	207	84.1
Mississippi	708	708	100.0	680	708	96.0	680	680	100.0

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 Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Missouri	455	454	99.8	374	382	97.9	357	374	95.5
Montana	18	18	100.0	18	18	100.0	14	16	87.5
Nebraska	72	72	100.0	72	72	100.0	54	69	78.3
Nevada ^c	919	919	100.0	918	919	99.9	901	918	98.1
New Jersey	441	435	98.6	325	433	75.1	235	277	84.8
New Mexico	187	187	100.0	171	187	91.4	171	171	100.0
New York (excludes NYC)	569	551	96.8	444	551	80.6	387	432	89.6
New York City	2,730	2,668	97.7	2,503	2,668	93.8	2,403	2,493	96.4
North Carolina	1,788	1,763	98.6	1,585	1,763	89.9	1,585	1,585	100.0
North Dakota	25	25	100.0	25	25	100.0	19	19	100.0
Ohio ^c	828	827	99.9	826	827	99.9	730	820	89.0
Oklahoma	314	313	99.7	311	311	100.0	308	309	99.7
Oregon	245	241	98.4	147	241	61.0	146	147	99.3
Pennsylvania (excludes Philadelphia ^c)	410	406	99.0	364	403	90.3	354	360	98.3
Philadelphia ^c	986	984	99.8	745	856	87.0	719	745	96.5
Rhode Island	67	67	100.0	67	67	100.0	67	67	100.0
South Carolina	631	631	100.0	631	631	100.0	473	631	75.0
South Dakota	52	52	100.0	47	48	97.9	47	47	100.0
Tennessee ^c	335	335	100.0	335	335	100.0	332	335	99.1
Texas (includes Houston) ^c	6,268	6,244	99.6	5,541	6,244	88.7	5,336	5,541	96.3
Utah	167	165	98.8	159	165	96.4	145	159	91.2
Vermont	1	1	100.0	1	1	100.0	1	1	100.0
Virginia	667	666	99.9	623	666	93.5	569	623	91.3
Washington	1,108	1,098	99.1	861	1,066	80.8	575	606	94.9
West Virginia	54	53	98.1	51	52	98.1	51	51	100.0
Wisconsin ^c	561	561	100.0	348	561	62.0	337	348	96.8
Wyoming	14	14	100.0	14	14	100.0	8	8	100.0
Puerto Rico ^c	303	303	100.0	303	303	100.0	302	303	99.7
U.S. Virgin Islands	7	7	100.0	4	4	100.0	4	4	100.0
Total	45,481	44,846	98.6	39,284	44,534	88.2	33,794	38,692	87.3

^aReported denominator excludes missing data.

^bReported percentage excludes missing data.

^cData reflect a partial submission.

Table 3. Demographic and Risk Behavior Characteristics of Index Patients Offered Partner Services, 59 Health Departments, 2015

Demographic And Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Age								
<13	72	0.2	58	72	80.6	17	29	58.6
13-19	998	2.2	914	993	92.0	851	907	93.8
20-29	14,344	32.0	12,785	14,240	89.8	11,579	12,653	91.5
30-39	11,765	26.2	10,321	11,683	88.3	8,840	10,166	87.0
40-49	8,905	19.9	7,706	8,846	87.1	6,379	7,565	84.3
50+	8,450	18.8	7,236	8,392	86.2	5,898	7,110	83.0
Missing/Invalid	312	0.7	264	308	85.7	230	262	87.8
Gender								
Male	37,268	83.1	32,715	37,004	88.4	27,948	32,214	86.8
Female	6,755	15.1	5,890	6,719	87.7	5,261	5,808	90.6
Transgender	369	0.8	319	361	88.4	237	312	76.0
Declined/Not Asked	416	0.9	327	413	79.2	318	326	97.5
Missing/Invalid	38	0.1	33	37	89.2	30	32	93.8
Race/Ethnicity								
White	12,693	28.3	11,165	12,620	88.5	9,019	10,952	82.4
Black or African American	18,718	41.7	16,343	18,596	87.9	14,997	16,162	92.8
Hispanic or Latino	10,035	22.4	8,970	10,003	89.7	7,549	8,859	85.2
Asian	857	1.9	786	851	92.4	615	764	80.5
American Indian or Alaska Native	220	0.5	189	220	85.9	166	188	88.3
Native Hawaiian or Pacific Islander	98	0.2	86	98	87.8	64	85	75.3
Multi-race	259	0.6	242	256	94.5	198	242	81.8
Declined	20	0.0	19	19	100.0	8	19	42.1
Don't Know	1,606	3.6	1,163	1,534	75.8	943	1,135	83.1
Missing/Invalid	340	0.8	321	337	95.3	235	286	82.2

Demographic And Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Region								
Northeast	5,375	12.0	4,706	5,241	89.8	4,328	4,557	95.0
Midwest	4,444	9.9	3,421	4,362	78.4	2,848	3,345	85.1
South	24,165	53.9	20,942	24,110	86.9	20,287	20,939	96.9
West	10,552	23.5	9,908	10,514	94.2	6,025	9,544	63.1
U.S. Dependent Areas	310	0.7	307	307	100.0	306	307	99.7
Target Population								
MSM/IDU	816	1.8	776	816	95.1	626	774	80.9
MSM	20,453	45.6	19,714	20,407	96.6	17,364	19,679	88.2
Transgender/IDU	19	0.0	18	19	94.7	8	18	44.4
Transgender	350	0.8	301	342	88.0	229	294	77.9
PWID	703	1.6	657	702	93.6	595	654	91.0
Heterosexual Men	3,972	8.9	3,831	3,951	97.0	3,487	3,814	91.4
Heterosexual Women	3,836	8.6	3,748	3,826	98.0	3,508	3,740	93.8
No Risk	2,666	5.9	2,378	2652	89.7	1,558	2244	69.4
Missing/Invalid	12,031	26.8	7,861	11819	66.5	6,419	7475	85.9
Total	44,846	100.0	39,284	44,534	88.2	33,794	38,692	87.3

^a Reported denominator excludes missing data.

^b Reported percentage excludes missing data.

Table 4. Partners Elicited by and Tested Through Partner Services Programs, 59 Health Departments^d, 2015

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable			Named Partners Notified			Notified Partners Tested for HIV		
		N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Alabama	383	383	383	100.0	383	383	100.0	184	187	98.4
Alaska	78	77	78	98.7	77	77	100.0	68	70	97.1
Arizona	721	654	718	91.1	617	622	99.2	180	182	98.9
Arkansas	164	155	164	94.5	155	155	100.0	78	84	92.9
California (excludes LA and SF)	551	413	551	75.0	409	413	99.0	197	206	95.6
Los Angeles	763	743	758	98.0	740	740	100.0	208	740	28.1
San Francisco	669	574	669	85.8	504	524	96.2	103	344	29.9
Colorado	371	263	371	70.9	260	263	98.9	197	260	75.8
Connecticut	39	38	39	97.4	30	31	96.8	15	15	100.0
Delaware	86	56	86	65.1	48	48	100.0	16	16	100.0
District of Columbia	9	6	8	75.0	6	6	100.0	4	5	80.0
Florida	3,804	3,509	3,804	92.2	3,509	3,509	100.0	2,305	2,515	91.7
Georgia (excludes Atlanta)	310	299	310	96.5	298	298	100.0	188	298	63.1
Atlanta	146	139	146	95.2	138	138	100.0	59	138	42.8
Hawaii	63	60	62	96.8	60	60	100.0	17	17	100.0
Idaho	69	69	69	100.0	69	69	100.0	7	9	77.8
Illinois (excludes Chicago)	76	30	76	39.5	30	30	100.0	6	30	20.0
Chicago ^c	371	371	371	100.0	371	371	100.0	205	220	93.2
Indiana	281	281	281	100.0	281	281	100.0	281	281	100.0
Iowa ^c	189	187	189	98.9	187	187	100.0	98	148	66.2
Kentucky	378	378	378	100.0	378	378	100.0	130	148	87.8
Louisiana	759	541	759	71.3	541	541	100.0	278	541	51.4
Maine	17	17	17	100.0	17	17	100.0	8	8	100.0
Maryland (excludes Baltimore)	530	528	530	99.6	528	528	100.0	256	302	84.8
Baltimore	258	254	258	98.4	254	254	100.0	144	153	94.1
Massachusetts	111	45	45	100.0	34	34	100.0	17	17	100.0
Michigan	73	34	73	46.6	34	34	100.0	7	7	100.0
Mississippi	904	895	904	99.0	895	895	100.0	537	540	99.4
Missouri	481	287	481	59.7	263	266	98.9	171	224	76.3

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable			Named Partners Notified			Notified Partners Tested for HIV		
		N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Montana	36	34	35	97.1	34	34	100.0	11	11	100.0
Nebraska	56	43	50	86.0	42	42	100.0	14	14	100.0
Nevada ^c	1,080	1,079	1,080	99.9	1,075	1,077	99.8	1,059	1,059	100.0
New Jersey	278	180	273	65.9	122	143	85.3	52	106	49.1
New Mexico	197	196	197	99.5	196	196	100.0	85	86	98.8
New York (excludes NYC)	479	456	479	95.2	315	320	98.4	161	199	80.9
New York City	1,675	1,021	1,675	61.0	999	1,003	99.6	240	440	54.5
North Carolina	1,818	1,703	1,800	94.6	1,456	1,456	100.0	302	302	100.0
North Dakota	20	3	20	15.0	0	0	N/A	0	0	N/A
Ohio ^c	1,022	1,011	1,021	99.0	1,008	1,008	100.0	95	95	100.0
Oklahoma	84	80	80	100.0	80	80	100.0	61	65	93.8
Oregon	143	67	143	46.9	57	57	100.0	57	57	100.0
Pennsylvania (excludes Philadelphia ^c)	276	249	272	91.5	239	249	96.0	108	118	91.5
Philadelphia ^c	1,501	282	675	41.8	282	282	100.0	215	270	79.6
Rhode Island	56	56	56	100.0	56	56	100.0	46	47	97.9
South Carolina	425	425	425	100.0	421	425	99.1	384	421	91.2
South Dakota	20	15	15	100.0	15	15	100.0	12	15	80.0
Tennessee ^c	367	367	367	100.0	347	367	94.6	6	10	60.0
Texas (includes Houston) ^c	6,386	6,386	6,386	100.0	6,386	6,386	100.0	4,255	4,323	98.4
Utah	219	219	219	100.0	219	219	100.0	219	219	100.0
Vermont	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Virginia	524	524	524	100.0	524	524	100.0	220	225	97.8
Washington	590	343	361	95.0	214	214	100.0	171	171	100.0
West Virginia	59	57	59	96.6	56	57	98.2	21	21	100.0
Wisconsin ^c	211	168	210	80.0	161	167	96.4	63	63	100.0
Wyoming	8	8	8	100.0	8	8	100.0	8	8	100.0
Puerto Rico ^c	377	376	377	99.7	375	375	100.0	184	190	96.8
U.S. Virgin Islands	4	3	4	75.0	3	3	100.0	2	2	100.0
Total	30,565	26,637	29,389	90.6	25,806	25,915	99.6	14,015	16,242	86.3

^a Reported denominator excludes missing data.

^b Reported percentage excludes missing data.

^c Data reflect a partial submission.

^d Kansas was excluded as no partners were reported.

Table 5. Demographic and Risk Behavior Characteristics of Partners Elicited by and Tested Through Partner Services, 59 Health Departments^c, 2015

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 Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Age											
<13	36	0.1	32	35	91.4	32	32	100.0	17	17	100.0
13-19	683	2.2	626	659	95.0	615	618	99.5	394	427	92.3
20-29	10,332	33.8	9,178	9,967	92.1	8,997	9,027	99.7	5,431	6,090	89.2
30-39	7,466	24.4	6,569	7,207	91.1	6,432	6,458	99.6	3,639	4,288	84.8
40-49	4,340	14.2	3,745	4,171	89.8	3,671	3,682	99.7	2,048	2,414	84.9
50+	3,871	12.7	3,327	3,699	89.9	3,218	3,230	99.6	1,738	2,025	85.8
Missing/Invalid	3,837	12.6	3,160	3,651	86.6	2,841	2,868	99.1	748	981	76.2
Gender											
Male	25,072	82.0	21,798	24,125	90.4	21,185	21,270	99.6	11,159	13,092	85.2
Female	4,834	15.8	4,270	4,652	91.8	4,126	4,148	99.5	2,588	2,861	90.5
Transgender	111	0.4	87	100	87.0	86	86	100.0	46	63	73.0
Declined/Not Asked	529	1.7	466	494	94.3	393	395	99.5	218	222	98.2
Missing/Invalid	19	0.1	16	18	88.9	16	16	100.0	4	4	100.0
Race/Ethnicity											
White	12,113	39.6	11,031	11,888	92.8	10,688	10,733	99.6	6,013	6,886	87.3
Black or African American	12,885	42.1	11,074	12,315	89.9	10,791	10,827	99.7	5,610	6,475	86.6
Hispanic or Latino	1,101	3.6	936	1,023	91.5	919	922	99.7	688	723	95.2
Asian	368	1.2	332	356	93.3	320	320	100.0	190	231	82.3
American Indian or Alaska	178	0.6	163	173	94.2	158	159	99.4	84	90	93.3
Native Hawaiian or Pacific	61	0.2	52	59	88.1	50	51	98.0	30	33	90.9
Multi-race	243	0.8	220	236	93.2	208	209	99.5	88	98	89.8
Declined	34	0.1	32	34	94.1	32	32	100.0	23	23	100.0
Don't Know	2,827	9.2	2,214	2,695	82.2	2,110	2,130	99.1	880	1,218	72.2
Missing/Invalid	755	2.5	583	610	95.6	530	532	99.6	409	465	88.0

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 Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^a	Reported % ^b
Region											
Northeast	4,432	14.5	2,344	3,531	66.4	2,094	2,135	98.1	862	1,220	70.7
Midwest	2,800	9.2	2,430	2,787	87.2	2,392	2,401	99.6	952	1,097	86.8
South	17,394	56.9	16,685	17,371	96.1	16,403	16,428	99.8	9,428	10,294	91.6
West	5,558	18.2	4,799	5,319	90.2	4,539	4,573	99.3	2,587	3,439	75.2
U.S. Dependent Areas	381	1.2	379	381	99.5	378	378	100.0	186	192	96.9
Target Population											
MSM/IDU	158	0.5	138	151	91.4	126	129	97.7	74	88	84.1
MSM	4,597	15.0	3,778	4,114	91.8	3,683	3,710	99.3	2,448	2,749	89.1
Transgender/IDU	3	0.0	2	2	100.0	2	2	100.0	0	1	0.0
Transgender	108	0.4	85	98	86.7	84	84	100.0	46	62	74.2
PWID	275	0.9	251	255	98.4	242	246	98.4	176	191	92.1
Heterosexual Men	905	3.0	750	821	91.4	721	727	99.2	496	540	91.9
Heterosexual Women	1,008	3.3	863	927	93.1	828	842	98.3	600	672	89.3
No Risk	555	1.8	464	530	87.5	430	436	98.6	282	321	87.9
Missing/Invalid	22,956	75.1	20,306	22,491	90.3	19,690	19,739	99.8	9,893	11,618	85.2
Total	30,565	100.0	26,637	29,389	90.6	25,806	25,915	99.6	14,015	16,242	86.3

^aReported denominator excludes missing data.

^bReported percentage excludes missing data.

^c Kansas was excluded as no partners were reported

Table 6. Newly Identified HIV-positive Partners Linked to HIV Medical Care, 59 Health Departments, 2015

Jurisdictions	Notified Partners Tested for HIV	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^c	Reported % ^b
Alabama	184	0	0	N/A	N/A	N/A	N/A
Alaska	68	8	66	12.1	3	3	100.0
Arizona	180	19	175	10.9	4	4	100.0
Arkansas	78	12	77	15.6	1	1	100.0
California (excludes LA and SF)	197	19	134	14.2	11	13	84.6
Los Angeles	208	21	199	10.6	9	9	100.0
San Francisco	103	3	101	3.0	1	1	100.0
Colorado	197	33	193	17.1	28	28	100.0
Connecticut	15	3	15	20.0	1	1	100.0
Delaware	16	3	16	18.8	1	1	100.0
District of Columbia	4	3	4	75.0	0	0	N/A
Florida	2,305	527	2,231	23.6	42	45	93.3
Georgia (excludes Atlanta)	188	35	186	18.8	6	8	75.0
Atlanta	59	15	58	25.9	1	2	50.0
Hawaii	17	1	17	5.9	0	0	N/A
Idaho	7	1	1	100.0	0	0	N/A
Illinois (excludes Chicago)	6	1	5	20.0	1	1	100.0
Chicago ^d	205	0	1	0.0	N/A	N/A	N/A
Indiana	281	57	94	60.6	46	57	80.7
Iowa ^d	98	18	93	19.4	9	9	100.0
Kentucky	130	3	3	100.0	0	0	N/A
Louisiana	278	25	275	9.1	10	10	100.0
Maine	8	0	0	N/A	N/A	N/A	N/A
Maryland (excludes Baltimore)	256	49	242	20.2	18	19	94.7
Baltimore	144	39	126	31.0	16	16	100.0
Massachusetts	17	2	16	12.5	0	0	N/A
Michigan	7	2	7	28.6	0	0	N/A
Mississippi	537	63	516	12.2	33	36	91.7
Missouri	171	11	168	6.5	0	0	N/A

Jurisdictions	Notified Partners Tested for HIV	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^c	Reported % ^b
Montana	11	4	11	36.4	3	3	100.0
Nebraska	14	6	14	42.9	0	0	N/A
Nevada ^d	1,059	0	0	N/A	N/A	N/A	N/A
New Jersey	52	8	51	15.7	3	3	100.0
New Mexico	85	8	77	10.4	5	5	100.0
New York (excludes NYC)	161	24	150	16.0	16	16	100.0
New York City	240	39	240	16.3	38	38	100.0
North Carolina	302	301	302	99.7	45	45	100.0
North Dakota	0	N/A	N/A	N/A	N/A	N/A	N/A
Ohio ^d	95	75	92	81.5	70	70	100.0
Oklahoma	61	50	61	82.0	10	11	90.9
Oregon	57	9	57	15.8	0	0	N/A
Pennsylvania (excludes Philadelphia ^d)	108	96	105	91.4	72	72	100.0
Philadelphia ^d	215	10	201	5.0	8	8	100.0
Rhode Island	46	4	46	8.7	4	4	100.0
South Carolina	384	210	383	54.8	6	6	100.0
South Dakota	12	3	9	33.3	0	0	N/A
Tennessee ^d	6	2	5	40.0	0	0	N/A
Texas (includes Houston) ^d	4,255	58	99	58.6	0	0	N/A
Utah	219	0	0	N/A	N/A	N/A	N/A
Vermont	0	N/A	N/A	N/A	N/A	N/A	N/A
Virginia	220	5	6	83.3	0	0	N/A
Washington	171	6	167	3.6	1	1	100.0
West Virginia	21	0	0	N/A	N/A	N/A	N/A
Wisconsin ^d	63	5	62	8.1	2	2	100.0
Wyoming	8	1	5	20.0	0	0	N/A
Puerto Rico ^d	184	11	31	35.5	3	3	100.0
U.S. Virgin Islands	2	0	2	0.0	N/A	N/A	N/A
Total	14,015	1,908	7,195	26.5	527	551	95.6

^a Reported denominator excludes missing data.

^b Reported percentage excludes missing data.

^c Reported denominator excludes missing data as well as "pending", "lost to follow-up", "no follow-up" and "don't know" value options.

^d Data reflect a partial submission.

N/A (Not Applicable)

Table 7. Demographic and Risk Behavior Characteristics of Newly Identified HIV-positive Partners Linked to HIV Medical Care, 59 Health Departments, 2015

Demographic And Risk Characteristics	Notified Partners Tested for HIV		Partners Newly Identified as HIV-positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
	N	Column %	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^c	Reported % ^b
Age								
<13	17	0.1	0	6	0.0	0	0	N/A
13-19	394	2.8	37	244	15.2	13	14	92.9
20-29	5,431	38.7	753	2,849	26.4	251	264	95.1
30-39	3,639	26.0	523	1,847	28.3	129	134	96.3
40-49	2,048	14.6	301	1,070	28.1	69	74	93.2
50+	1,738	12.4	265	977	27.1	57	57	100.0
Missing/Invalid	748	5.3	29	202	14.4	8	8	100.0
Gender								
Male	11,159	79.6	1,604	5,631	28.5	418	439	95.2
Female	2,588	18.5	274	1,489	18.4	97	100	97.0
Transgender	46	0.3	13	37	35.1	6	6	100.0
Declined/Not Asked	218	1.6	17	37	45.9	6	6	100.0
Missing/Invalid	4	0.0	0	1	0.0	0	0	N/A
Race/Ethnicity								
White	6,013	42.9	629	2,746	22.9	204	218	93.6
Black or African American	5,610	40.0	980	3,345	29.3	226	236	95.8
Hispanic or Latino	688	4.9	188	366	51.4	62	62	100.0
Asian	190	1.4	19	98	19.4	10	10	100.0
American Indian or Alaska Native	84	0.6	12	60	20.0	3	3	100.0
Native Hawaiian or Pacific	30	0.2	7	15	46.7	0	0	N/A
Multi-race	88	0.6	13	37	35.1	4	4	100.0
Declined	23	0.2	3	19	15.8	3	3	100.0
Don't Know	880	6.3	54	436	12.4	14	14	100.0
Missing/Invalid	409	2.9	3	73	4.1	1	1	100.0

Demographic And Risk Characteristics	Notified Partners Tested for HIV		Partners Newly Identified as HIV-positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
	N	Column %	N	Reported Denominator ^a	Reported % ^b	N	Reported Denominator ^c	Reported % ^b
Region								
Northeast	862	6.1	186	824	22.6	142	142	100.0
Midwest	952	6.8	178	545	32.7	128	139	92.1
South	9,428	67.3	1,400	4,590	30.5	189	200	94.5
West	2,587	18.5	133	1,203	11.1	65	67	97.0
U.S. Dependent Areas	186	1.3	11	33	33.3	3	3	100.0
Target Population								
MSM/IDU	74	0.5	22	44	50.0	6	6	100.0
MSM	2,448	17.5	745	1,641	45.4	218	223	97.8
Transgender	46	0.3	13	37	35.1	6	6	100.0
PWID	176	1.3	60	97	61.9	35	43	81.4
Heterosexual Men	496	3.5	113	365	31.0	43	45	95.6
Heterosexual Women	600	4.3	134	440	30.5	47	47	100.0
No Risk	282	2.0	137	261	52.5	18	19	94.7
Missing/Invalid	9,893	70.6	684	4,310	15.9	154	162	95.1
Total	14,015	100.0	1,908	7,195	26.5	527	551	95.6

^a Reported denominator excludes missing data.

^b Reported percentage excludes missing data.

^c Reported denominator excludes missing data as well as "pending", "lost to follow-up", "no follow-up" and "don't know" value options.