Centers for Disease Control and Prevention
Division of HIV/AIDS Prevention

Partner Services Annual Report 2014

Program Evaluation Branch

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The report was prepared by Michele Rorie, Wei Song, Sam Dooley, Janet Heitgerd, John Gilford, Mesfin Mulatu, Shubha Rao and Hui Zhang.

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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

Table of Contents

I. Highlights of the Report…….. 2

II. Introduction…….. 2

III. Methods…….. 2

IV. Findings…….. 3

1. Figure 1. Flowchart of the 2014 PS Index Patient Indicators
2. Figure 2. Flowchart of the 2014 PS Partner Indicators
   A. How effective are PS programs at identifying and interviewing index patients with HIV infection?
   B. How effective are PS programs in notifying partners of their potential HIV exposure?
   C. How effective are PS programs in testing notified partners and identifying HIV infections?
   D. How effective are PS programs in linking HIV-positive partners to HIV medical care services?

V. Data Limitations…….. 8

VI. Appendix- Tables…….. 10

1) Table 1. Index Patients Offered Partner Services, 57 Health Departments, 2014
2) Table 2. Demographic and Risk Behavior Characteristics of Index Patients Offered Partner Services, 57 Health Departments, 2014
3) Table 3. Partners Elicited By and Tested Through Partner Services Programs, 57 Health Departments, 2014
4) Table 4. Demographic and Risk Behavior Characteristics of Partners Elicited By and Through Partner Services, 57 Health Departments, 2014
5) Table 5. Newly-Identified HIV-positive Partners That are Linked to HIV Medical Care, 57 Health Departments, 2014
6) Table 6. Demographic and Risk Behavior Characteristics of Newly-Identified HIV-positive Partners That are Linked to HIV Medical Care, 57 Health Departments, 2014

Introduction

Each year, an estimated 45,000 people in the United States become newly infected with HIV[6]. More than 90% of these new infections are thought to originate with people who are infected with HIV but not receiving medical care for their infection. 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.

*Highlights of the Report**

- 35,692 index patients were identified across all HIV Partner Services programs.
- Of the 30,648 index patients who were eligible[1], located and with a reported enrollment status, 92% were interviewed for HIV Partner Services.
- 28,432 partners were named by index patients across all HIV Partner Services programs and 75% were initiated[2] for HIV Partner Services.
- Of the 17,544notifiable[3] partners with valid data, 99% were notified of their potential HIV exposure.
- Of the 12,426 notified partners with HIV test information, 80% were tested for HIV.
- Of the 7,981 partners tested with a documented HIV test result, 36% were newly identified[4] as HIV-positive.
- Of the 598 newly identified HIV positive partners with follow-up information, 87% were linked to HIV medical care[5].

*Reported percentages were calculated based on individuals with valid data on the outcome and excludes those reported as pending, lost to follow-up, don't know, or missing.

[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.

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. The 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 housing, transportation, and employment issues.

This report summarizes 2014 client-level partner services data submitted by CDC-funded jurisdictions in the United States and dependent areas (Puerto Rico and U.S. Virgin Islands).

Methods

Health departments collect standardized, client-level, National HIV Prevention Program Monitoring &

[6] HIV in the United States: *At A Glance.* http://www.cdc.gov/hiv/statistics/basics/ataglance.html

Evaluation (NHM&E) data from their partner services programs and report them to CDC twice yearly for monitoring at the national level. Data are reported through EvaluationWeb®, a 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 each step of the partner services process. Indicators are stratified by age, gender, race/ethnicity, target population[1], and geographic region as defined by the U.S. Census Bureau[2]. Risk data used to define target population is only required and reported for individuals diagnosed as HIV-positive.

This report includes all partner services cases opened during the period of January 1 – December 31, 2014. The following partner services program indicators are reported:

1. Interview of index patients (partner elicitation)
    - Percentage of located index patients who were interviewed for partner services
2. Partner notification
    - Percentage of notifiable partners who were notified
3. Partner testing
    - Percentage of notified partners who were tested
    - 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 and valid data.

Findings

This report summarizes 2014 client-level partner services data from 57 of the 61 CDC funded jurisdictions in the United States and dependent areas (Puerto Rico and U.S. Virgin Islands). Data from four jurisdictions (Houston, Kansas, Texas and Wyoming) are not included in this report because data files were not received by the July 1, 2015 EvaluationWeb® data transfer to CDC. The following flowchart represents the calculated index patient indicators used to answer key partner services program evaluation questions.

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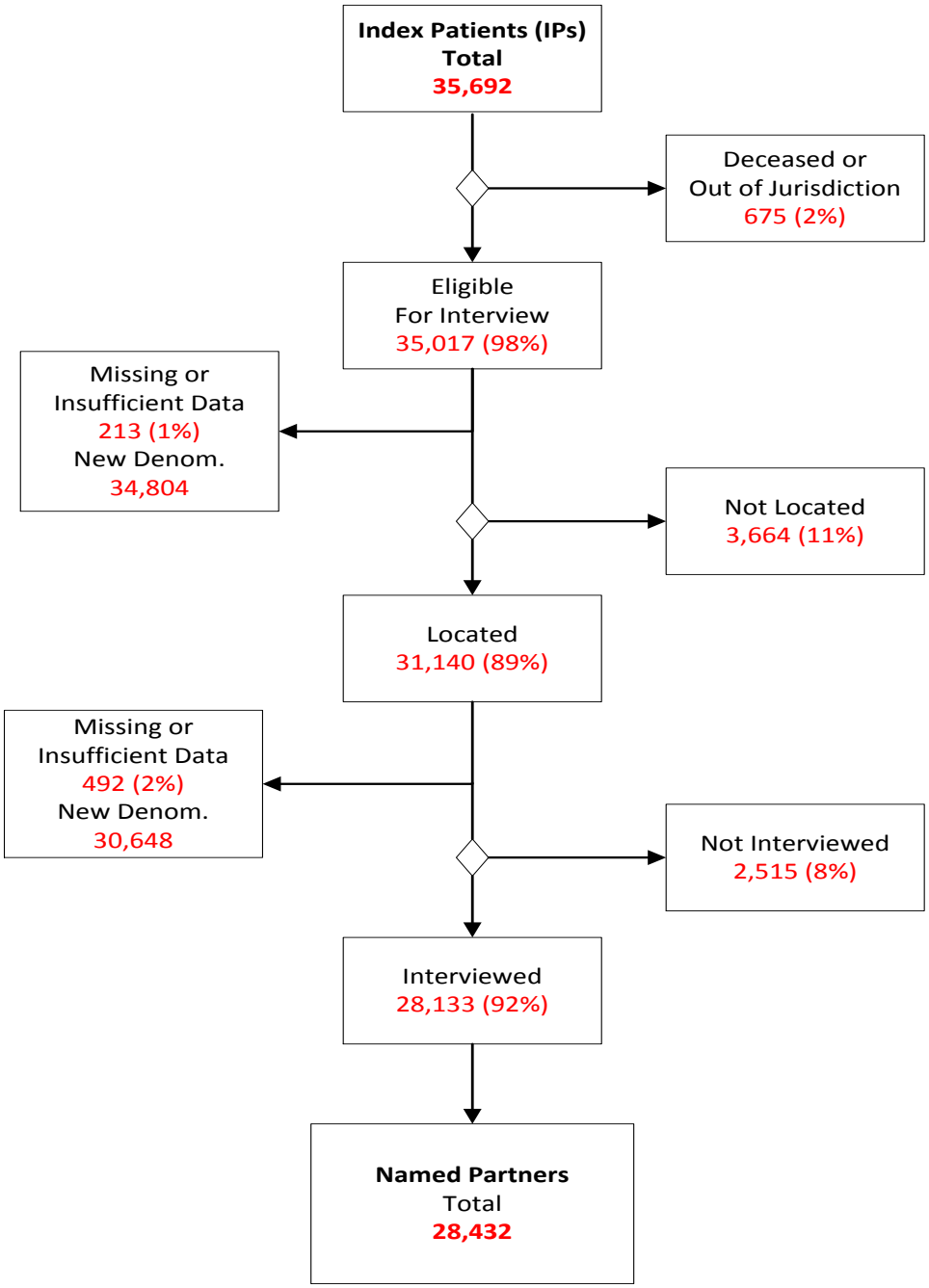
[1] Target populations are categorized as follows: Men who have sex with men and report injection drug use; Men who have sex with men; Transgender persons who report injection drug use; Transgender persons; Persons who inject drugs; Heterosexual males; Heterosexual females

[2] 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

Figure 1. Flowchart of the 2014 Partner Services Index Patient Indicators



Data Source: NHM&E Partner Services data (January 1, 2014- December 31, 2014) as of July 1, 2015

Index Patients

In 2014, a total of 35,692 index patients were identified by partner services programs after testing HIV-positive. Of them, 35,017 (98%) were eligible for HIV partner services.

- **Age:** The largest percentage of index patients were in the age group 20-29 years (32%) followed by 30-39 (25%). Only 3% of index patients were younger than 19 years (Table 2).

- **Gender:** The majority of index patients were males (81%), with females and transgender persons accounting for 17% and 1% respectively (Table 2).

- **Race/Ethnicity:** A large percentage of index patients were black/African American (45%), followed by white (29%), and Hispanic/Latino (18%) (Table 2).

- **U.S. Geographic Region:** Almost half (49%) of the index patients lived in the South (Table 2).

- **Target Population:** Men who have sex with men (MSM) accounted for 38% of index patients in 2014. However, there was a large percentage (40%) of no risk/missing/invalid data reported (Table 2).

How Effective Are Partner Services Programs At Identifying And Interviewing Index Patients With HIV Infection?

- ***Indicator: Percentage of located index patients who were interviewed for partner services***

A total of 31,140 (90%) index patients were located and of those 30,648 with a reported partner services enrollment status, 28,133 (92%) were interviewed to elicit partner names and identify risk behavior.

- **Age:** Index patients aged 13-19 were most often located and interviewed (95%), while those in the <13 age group had the lowest percentages located and interviewed (69% and 71%, respectively) (Table 2).

- **Gender:** Females (90%) were located at approximately the same rate as males (89%), but females were interviewed more often (96%) than males (91%) (Table 2).

- **Race/Ethnicity:** Blacks/African Americans were located and interviewed for partner services more frequently (92% and 95%, respectively) than whites (88% and 89%) and Hispanics/Latinos at 89% for both located and interviewed for partner services (Table 2).

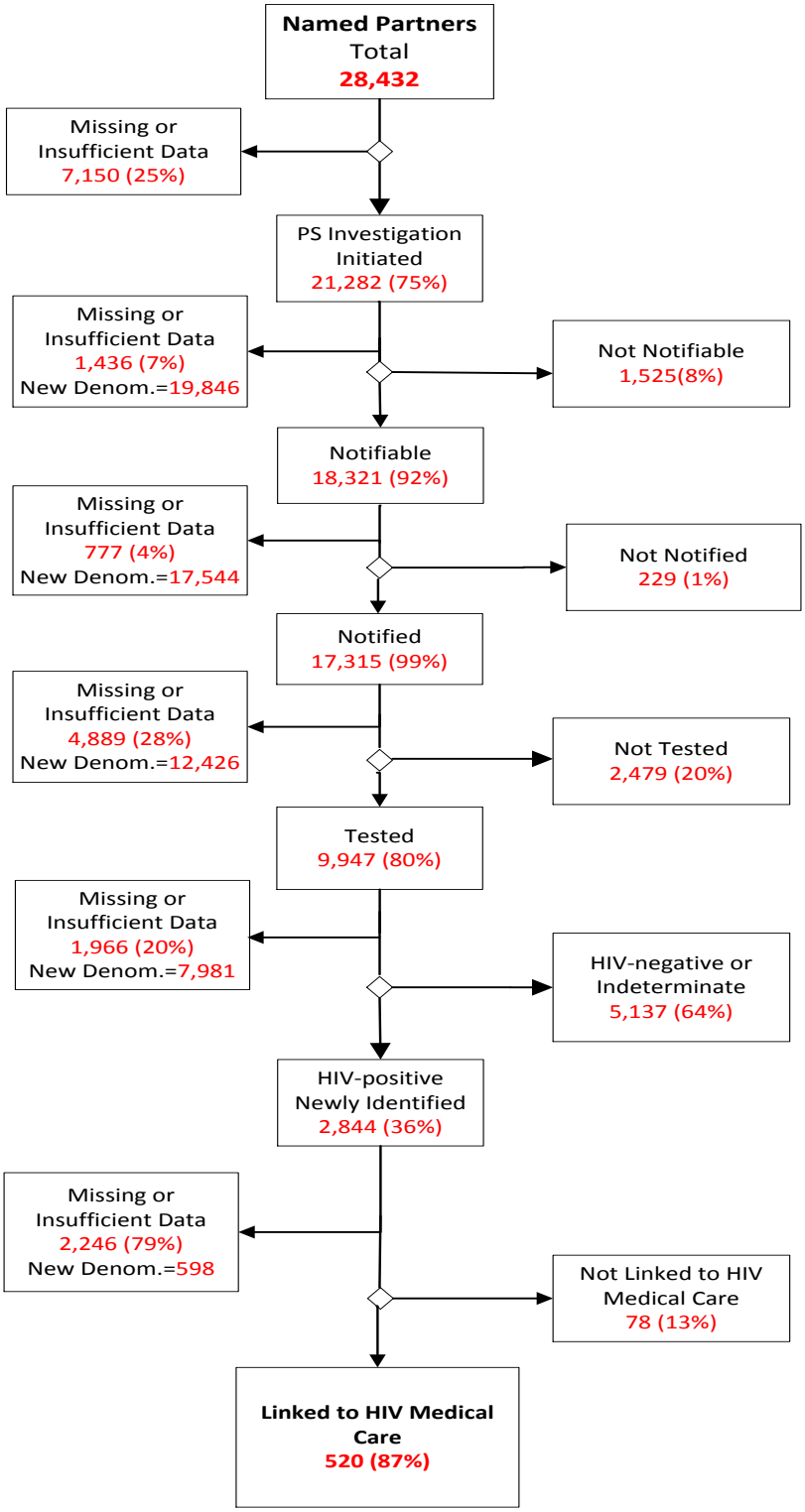
- **U.S. Geographic Region:** Ninety-four percent of index patients residing in the South were located for partner services, with the lowest rate reported in the Midwest (76%). The U.S. Dependent Areas had the highest percentage of partner services interviews conducted, 100%; while the West had the lowest, 73% (Table 2).

- **Target Population:** Almost all MSM (96%), heterosexual men and heterosexual women were located for partner services (97%). However, MSM index patients were interviewed (90%) less frequently than heterosexual men and heterosexual women (96% and 97%, respectively) (Table 2).

Partners

A total of 28,432 partners were named by index patients in 57 partner services programs. The following flowchart represents the calculated partner indicators used to answer key partner services program evaluation questions.

Figure 2. Flowchart of the 2014 Partner Services Partner Indicators



Data Source: NHM&E Partner Services data (January 1, 2014-December 31, 2014) as of July 1, 2015

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

- ***Indicator:*** **Percentage of notifiable partners who were notified**

Of the 28,432 partners that were named, 21,282 (75%) were initiated for partner services. Of the partners that were initiated for partner services 1,525 (8%) were excluded because they were either previously known to be HIV-positive, out of jurisdiction, deceased, or potentially violent. Another 1,436 records (7%) contained insufficient or invalid data. The remaining 18,321 (92%) were considered notifiable. Of the 17,544 notifiable partners with valid data, a total of 17,315 (99%) partners were notified of their potential HIV exposure.

- **Age**: The majority of partners initiated for partner services were in the age groups 20-29 and 30-39 (34% and 24%, respectively). Although partners from all age groups were notified at a rate greater than 98%, those aged younger than 13 were notified 100% of the time (Table 4).

- **Gender:** More males were initiated for partner services (78%) than females (16%). Male, female and transgender partners were notified at the rate of 98% or higher (Table 4).

- **Race/Ethnicity**: Although more Blacks/African Americans were initiated for partner services (46%) than whites (26%) and Hispanics/Latinos (16%), the groups were all notified (99%) at the same rate (Table 4).

- **U.S. Geographic Region:** The majority of partners initiated for partner services lived in the South (51%) compared to the Northeast (21%), West (17%) and Midwest (10%) (Table 4).

- **Target Population**: Risk data are only required for those partners who test positive. Of those with a complete risk profile, 19% of the named partners initiated for partner services were MSM (Table 4).

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 had newly diagnosed HIV infection***

Of the 12,426 notified partners with valid testing data, 9,947 (80%) were tested for HIV (Table 3). Of the 7,981 partners tested with a documented HIV test result, 2,844 (36%) were newly identified as HIV-positive (Table 5).

- **Age**: The percentage of notified partners tested for HIV was about 80% for all age groups except for those aged <13 where the rate was 57% (Table 4). Partners in the age group 40-49 had the highest percentage newly identified as HIV-positive (41%) (Table 6).

- **Gender**: The percentage of male and female partners tested for HIV were equal (82%), while the rate of testing for transgender partners was lower (30%) (Table 4). The percentage newly identified as HIV-positive was higher for male partners (39%) than female partners (25%) (Table 6).

- **Race/Ethnicity:** The rate at which black/African American partners (79%) were tested for HIV was slightly lower than that for whites (81%) and Hispanics/Latinos (82%). American Indians or Alaska Natives had the highest rate at 89% (Table 4). The percentage newly identified as HIV-positive was highest for black/African American partners (42%) (Table 6).

- **U.S. Geographic Region:** The U.S. Dependent Areas had the highest percentage of notified partners tested for HIV (94%) and the Northeast had the lowest (57%) (Table 4). When excluding the U.S. Dependent Areas, the South had the highest percentage of partners newly identified as HIV-positive (41%) and the Northeast had the lowest (13%) (Table 6).

- **Target Population:** Risk data were only required and reported for partners newly diagnosed as HIV-positive. Of these data, 39% of MSM tested were newly identified as HIV-positive (Table 6).

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 2014, a total of 2,844 partners were newly identified as HIV-positive from all partner services programs. Of the 598 newly identified HIV-positive partners with follow-up information to verify that services were accessed, 520 (87%) were linked to HIV medical care (Table 5).

- **Age:** HIV-positive partners aged 40-49 had the highest linkage to HIV medical care at 90%. Partners aged 20-29 and 30-39 were linked to HIV medical care at a rate of 87% (Table 6).

- **Gender:** Male and female HIV-positive partners had the same linkage to HIV medical care at 88%, however, only 40% of transgender partners were linked to HIV medical care (Table 6).

- **Race/Ethnicity:** Black/African American HIV-positive partners (91%) were linked to HIV medical care at a higher rate than white (85%), Hispanic/Latino (78%) and multi-race (75%) partners (Table 6).

- **U.S. Geographic Region:** Partners who lived in the South (94%) were linked more than those in the Northeast (87%), the Midwest (77%) and the West (65%) (Table 6).

- **Target Populations:** Among the newly identified HIV-positive partners who could be categorized as one of the listed target populations, all MSM/IDU (3) and Transgender/IDU (1) partners were linked to medical care. Heterosexual women (83%) were linked to medical care more often than MSM (78%) and heterosexual men (75%) (Table 6).

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 2014 partner services data, several key variables used to calculate program performance indicators had missing data ranging between 2% and 79% of the total records.

- Enrollment Status for Index Patients 2%
- Partner Notifiability 7%
- HIV Test Performed for Partners 28%
- Test Results for Partners 20%
- Linkage to HIV Medical Care 79%

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

In addition, other important variables that are required to describe the indicators by demographic and other population groups (particularly behavioral risk) had significant levels of missing data. 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. Sixty-one percent of grantees use their own locally developed or adapted systems (e.g., PRISM, Maven, PartnerServicesWeb®) and 22% use some version of STD*MIS, a CDC-supported data collection tool. Versions prior to the most recent installment of STD*MIS did not capture 14 of the key variables needed to calculate partner services program performance indicators and several grantees are still using these earlier versions. Other data systems were missing key identifying variables, such as case number that is needed for linking index patients to partners. HIV testing and referral 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 and other services 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 report linking 100% of their newly identified partners to HIV medical care, 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 (no designated place to enter the data in the systems). This appears to be a recurring problem within partner services programs.

Table 1. Index Patients Offered Partner Services, 57 Health Departments, 2014

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#	Reported %*	N	Reported Denominator#	Reported %*
Alabama	227	225	99.1	223	225	99.1	221	223	99.1
Alaska	71	71	100.0	71	71	100.0	68	71	95.8
Arizona	1,375	1,308	95.1	1,168	1,301	89.8	1,113	1,168	95.3
Arkansas	443	442	99.8	408	442	92.3	314	408	77.0
California (excl. Los Angeles & San Francisco)	1,666	1,666	100.0	1,567	1,666	94.1	273	1,567	17.4
Los Angeles	406	406	100.0	406	406	100.0	406	406	100.0
San Francisco	314	314	100.0	256	311	82.3	250	256	97.7
Colorado	329	328	99.7	324	328	98.8	296	324	91.4
Connecticut	162	161	99.4	155	161	96.3	138	149	92.6
Delaware	117	113	96.6	96	113	85.0	86	96	89.6
District of Columbia	218	161	73.9	34	133	25.6	33	34	97.1
Florida	7,053	7,053	100.0	6,252	7,044	88.8	6,252	6,252	100.0
Georgia (excl. Atlanta)	493	491	99.6	491	491	100.0	491	491	100.0
Atlanta	353	353	100.0	353	353	100.0	353	353	100.0
Hawaii	52	52	100.0	51	52	98.1	42	51	82.4
Idaho	31	31	100.0	20	31	64.5	18	20	90.0
Illinois (excl. Chicago)	1,910	1,572	82.3	741	1,572	47.1	546	628	86.9
Chicago	791	791	100.0	634	791	80.2	566	634	89.3
Indiana	53	53	100.0	52	53	98.1	25	25	100.0
Iowa	87	85	97.7	85	85	100.0	62	85	72.9
Kentucky	111	111	100.0	109	111	98.2	103	109	94.5
Louisiana	1,862	1,862	100.0	1,862	1,862	100.0	1,862	1,862	100.0
Maine	28	28	100.0	24	28	85.7	21	24	87.5
Maryland (excl. Baltimore)	1,102	1,102	100.0	1,101	1,102	99.9	1,101	1,101	100.0
Baltimore	497	497	100.0	497	497	100.0	497	497	100.0
Massachusetts	95	95	100.0	79	95	83.2	52	79	65.8
Michigan	748	730	97.6	638	722	88.4	542	638	85.0
Minnesota	522	520	99.6	452	519	87.1	325	452	71.9
Mississippi	305	305	100.0	301	305	98.7	301	301	100.0
Missouri	490	484	98.8	475	484	98.1	442	475	93.1
Montana	18	17	94.4	17	17	100.0	15	15	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#	Reported %*	N	Reported Denominator#	Reported %*
Nebraska	43	43	100.0	42	43	97.7	33	34	97.1
Nevada	781	772	98.8	748	768	97.4	723	748	96.7
New Hampshire	33	33	100.0	32	33	97.0	28	32	87.5
New Jersey	626	605	96.6	317	605	52.4	261	317	82.3
New Mexico	96	96	100.0	96	96	100.0	96	96	100.0
New York (excl. New York City)	799	767	96.0	616	767	80.3	525	603	87.1
New York City	2,710	2,669	98.5	2,465	2,669	92.4	2,372	2,465	96.2
North Carolina	2,422	2,394	98.8	2,387	2,394	99.7	2,382	2,387	99.8
North Dakota	42	42	100.0	42	42	100.0	10	10	100.0
Ohio	913	910	99.7	832	910	91.4	832	832	100.0
Oklahoma	244	240	98.4	240	240	100.0	230	236	97.5
Oregon	255	252	98.8	153	252	60.7	153	153	100.0
Pennsylvania (excl. Philadelphia)	163	161	98.8	150	158	94.9	122	144	84.7
Philadelphia	743	736	99.1	611	669	91.3	578	611	94.6
Rhode Island^	4	4	100.0	4	4	100.0	4	4	100.0
South Carolina	701	701	100.0	688	701	98.1	580	688	84.3
South Dakota	18	18	100.0	18	18	100.0	18	18	100.0
Tennessee	444	444	100.0	444	444	100.0	442	444	99.5
Utah	58	51	87.9	51	51	100.0	45	51	88.2
Vermont	4	4	100.0	2	2	100.0	2	2	100.0
Virginia	673	664	98.7	615	664	92.6	549	615	89.3
Washington	995	990	99.5	805	929	86.7	495	524	94.5
West Virginia	59	57	96.6	57	57	100.0	57	57	100.0
Wisconsin	527	527	100.0	377	511	73.8	377	377	100.0
Puerto Rico	403	403	100.0	403	403	100.0	402	403	99.8
U.S. Virgin Islands	7	7	100.0	3	3	100.0	3	3	100.0
Total	**35,692**	**35,017**	**98.1**	**31,140**	**34,804**	**89.5**	**28,133**	**30,648**	**91.8**

#Reported denominator is the number of index patients with valid data on the outcome and excludes missing/invalid data.
*Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.
^Data reflect a partial submission.

Table 2. Demographic and Risk Behavior Characteristics of Index Patients Offered Partner Services, 57 Health Departments, 2014

Demographic And Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported Denominator[#]	Reported %*	N	Reported Denominator[#]	Reported %*
Age								
<13	60	0.2	37	54	68.5	12	17	70.6
13-19	837	2.4	793	835	95.0	747	789	94.7
20-29	11,122	31.5	10,205	11,060	92.3	9,463	10,120	93.5
30-39	8,754	24.8	7,757	8,695	89.2	7,004	7,640	91.7
40-49	7,322	20.7	6,371	7,278	87.5	5,631	6,242	90.2
50+	6,735	19.1	5,797	6,700	86.5	5,098	5,660	90.1
Missing/Invalid	187	0.5	180	182	98.9	178	180	98.9
Gender								
Male	28,456	80.6	25,248	28,291	89.2	22,598	24,849	90.9
Female	6,087	17.2	5,476	6,059	90.4	5,148	5,387	95.6
Transgender	219	0.6	188	215	87.4	163	185	88.1
Other	3	0.0	3	3	100.0	3	3	100.0
Declined/Not Asked	211	0.6	195	206	94.7	191	194	98.5
Missing/Invalid	41	0.1	30	30	100.0	30	30	100.0
Race/Ethnicity								
White	10,123	28.7	8,841	10,056	87.9	7,671	8,623	89.0
Black or African American	15,862	44.9	14,449	15,795	91.5	13,606	14,276	95.3
Hispanic or Latino	6,491	18.4	5,720	6,459	88.6	5,037	5,660	89.0
Asian	586	1.7	521	583	89.4	397	503	78.9
American Indian or Alaska Native	178	0.5	167	175	95.4	150	163	92.0
Native Hawaiian or Pacific Islander	63	0.2	55	63	87.3	47	55	85.5
Multi-Race	174	0.5	168	174	96.6	142	168	84.5
Declined	18	0.1	12	18	66.7	8	12	66.7
Don't Know	1,282	3.6	985	1,245	79.1	877	981	89.4
Missing/Invalid	240	0.7	222	236	94.1	198	207	95.7

Demographic And Risk Characteristics	Index Patients Eligible for PS		Index Patients Located			Index Patients Interviewed for PS		
	N	Column %	N	Reported Denominator[#]	Reported %*	N	Reported Denominator[#]	Reported %*
Region								
Northeast	5,263	14.9	4,455	5,191	85.8	4,103	4,430	92.6
Midwest	5,775	16.4	4,388	5,750	76.3	3,778	4,208	89.8
South	17,215	48.8	16,158	17,178	94.1	15,854	16,154	98.1
West	6,354	18.0	5,733	6,279	91.3	3,993	5,450	73.3
U.S. Dependent Areas	410	1.2	406	406	100.0	405	406	99.8
Target Population								
MSM/IDU	539	1.5	510	533	95.7	424	509	83.3
MSM	13,557	38.4	13,042	13,526	96.4	11,734	13,014	90.2
Transgender/IDU	10	0.0	9	10	90.0	8	9	88.9
Transgender	213	0.6	183	209	87.6	159	180	88.3
IDU	525	1.5	479	521	91.9	445	477	93.3
Heterosexual Men	3,103	8.8	2,995	3,092	96.9	2,854	2,978	95.8
Heterosexual Women	3,070	8.7	2,971	3,061	97.1	2,880	2,968	97.0
No Risk/Missing/Invalid	14,000	39.7	10,951	13,852	79.1	9,629	10,513	91.6
Total	**35,017**	**100.0**	**31,140**	**34,804**	**89.5**	**28,133**	**30,648**	**91.8**

[#]Reported denominator is the number of index patients with valid data on the outcome and excludes missing/invalid data.
[*]Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.
^Determined by comparing “birth gender” and “current gender”.
[$]As reported in the risk profile.

Table 3. Partners Elicited By and Tested Through Partner Services Programs, 57 Health Departments, 2014

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable			Notified Partners			Notified Partners Tested		
		N	Reported Denominator#	Reported %*	N	Reported Denominator#	Reported %*	N	Reported Denominator#	Reported %*
Alabama	309	309	309	100.0	309	309	100.0	147	148	99.3
Alaska	129	129	129	100.0	129	129	100.0	91	95	95.8
Arizona	603	502	603	83.3	436	439	99.3	54	54	100.0
Arkansas	131	131	131	100.0	131	131	100.0	42	43	97.7
California (excl. Los Angeles & San Francisco)	260	257	260	98.8	249	257	96.9	77	103	74.8
Los Angeles	503	282	474	59.5	282	282	100.0	162	282	57.4
San Francisco	209	209	209	100.0	209	209	100.0	12	16	75.0
Colorado	324	254	324	78.4	254	254	100.0	222	254	87.4
Connecticut	49	44	49	89.8	41	41	100.0	28	28	100.0
Delaware	71	57	71	80.3	53	55	96.4	18	18	100.0
District of Columbia	166	166	166	100.0	42	166	25.3	15	39	38.5
Florida	4,403	4,327	4,403	98.3	4,323	4,327	99.9	3,512	3,831	91.7
Georgia (excl. Atlanta)	352	292	348	83.9	292	292	100.0	150	292	51.4
Atlanta	242	167	203	82.3	167	167	100.0	66	126	52.4
Hawaii	46	44	46	95.7	44	44	100.0	15	15	100.0
Idaho	37	37	37	100.0	37	37	100.0	6	9	66.7
Illinois (excl. Chicago)	90	57	90	63.3	57	57	100.0	23	57	40.4
Chicago	199	199	199	100.0	199	199	100.0	93	105	88.6
Indiana	14	14	14	100.0	14	14	100.0	14	14	100.0
Iowa	58	58	58	100.0	58	58	100.0	44	58	75.9
Kentucky	164	164	164	100.0	164	164	100.0	20	36	55.6
Louisiana	863	633	863	73.3	633	633	100.0	155	633	24.5
Maine	14	14	14	100.0	14	14	100.0	7	9	77.8
Maryland (excl. Baltimore)	764	764	764	100.0	764	764	100.0	525	645	81.4
Baltimore	417	417	417	100.0	417	417	100.0	310	349	88.8
Massachusetts	79	79	79	100.0	79	79	100.0	37	44	84.1
Michigan	621	110	174	63.2	102	110	92.7	43	43	100.0
Minnesota	140	107	114	93.9	102	105	97.1	46	70	65.7
Mississippi	463	460	463	99.4	460	460	100.0	340	377	90.2
Missouri	572	362	552	65.6	277	281	98.6	165	245	67.3
Montana	30	26	30	86.7	26	26	100.0	16	16	100.0

Jurisdictions	Named Partners Initiated for PS	Named Partners Who Were Notifiable			Notified Partners			Notified Partners Tested		
		N	Reported Denominator#	Reported %*	N	Reported Denominator#	Reported %*	N	Reported Denominator#	Reported %*
Nebraska	34	32	33	97.0	29	29	100.0	9	9	100.0
Nevada	541	538	539	99.8	535	538	99.4	467	528	88.4
New Hampshire	13	13	13	100.0	13	13	100.0	5	5	100.0
New Jersey	639	73	76	96.1	47	68	69.1	11	38	28.9
New Mexico	65	65	65	100.0	65	65	100.0	43	65	66.2
New York (excl. New York City)	638	598	638	93.7	394	398	99.0	212	255	83.1
New York City	2,030	1,767	2,030	87.0	1,480	1,498	98.8	216	696	31.0
North Carolina	764	764	764	100.0	764	764	100.0	673	764	88.1
North Dakota	16	10	16	62.5	9	9	100.0	8	9	88.9
Ohio	167	167	167	100.0	165	165	100.0	73	73	100.0
Oklahoma	368	306	324	94.4	302	303	99.7	166	178	93.3
Oregon	107	49	107	45.8	41	42	97.6	38	38	100.0
Pennsylvania (excl. Philadelphia)	58	58	58	100.0	58	58	100.0	10	10	100.0
Philadelphia	855	844	855	98.7	843	843	100.0	290	374	77.5
Rhode Island^	70	70	70	100.0	70	70	100.0	49	49	100.0
South Carolina	507	506	506	100.0	506	506	100.0	469	506	92.7
South Dakota	15	13	13	100.0	13	13	100.0	6	13	46.2
Tennessee	470	470	470	100.0	448	470	95.3	15	16	93.8
Utah	268	268	268	100.0	268	268	100.0	268	268	100.0
Vermont	1	0	0	0.0	0	0	N/A	0	0	N/A
Virginia	311	311	311	100.0	311	311	100.0	144	150	96.0
Washington	573	300	317	94.6	171	171	100.0	118	118	100.0
West Virginia	42	42	42	100.0	42	42	100.0	27	27	100.0
Wisconsin	200	178	199	89.4	169	172	98.3	51	51	100.0
Puerto Rico	207	207	207	100.0	207	207	100.0	123	131	93.9
U.S. Virgin Islands	1	1	1	100.0	1	1	100.0	1	1	100.0
Total	**21,282**	**18,321**	**19,846**	**92.3**	**17,315**	**17,544**	**98.7**	**9,947**	**12,426**	**80.0**

#Reported denominator is the number of partners with valid data on the outcome and excludes missing/invalid data.
*Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.
@Named partners initiated for partner services includes recoded data and record updates.
^ Data reflect a partial submission.
N/A- No named partners elicited from index patients.

Table 4. Demographic and Risk Behavior Characteristics of Partners Elicited Through Partner Services, 57 Health Departments, 2014

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[#]	Reported %[*]	N	Reported Denominator[#]	Reported %[*]	N	Reported Denominator[#]	Reported %[*]
Age											
<13	122	0.6	120	122	98.4	120	120	100.0	39	68	57.4
13-19	463	2.2	424	441	96.1	403	410	98.3	247	312	79.2
20-29	7,150	33.6	6,379	6,789	94.0	6,168	6,235	98.9	3,641	4,506	80.8
30-39	5,105	24.0	4,424	4,800	92.2	4,249	4,308	98.6	2,552	3,166	80.6
40-49	3,297	15.5	2,791	3,025	92.3	2,685	2,723	98.6	1,660	2,048	81.1
50+	2,830	13.3	2,259	2,524	89.5	2,173	2,206	98.5	1,374	1,630	84.3
Missing/Invalid	2,315	10.9	1,924	2,145	89.7	1,517	1,542	98.4	434	696	62.4
Gender											
Male	16,622	78.1	14,341	15,524	92.4	13,553	13,732	98.7	7,758	9,475	81.9
Female	3,446	16.2	2,978	3,167	94.0	2,811	2,844	98.8	1,800	2,210	81.4
Transgender	591	2.8	483	588	82.1	468	478	97.9	138	458	30.1
Declined/Not Asked	618	2.9	514	562	91.5	478	485	98.6	250	282	88.7
Missing/Invalid	5	0.0	5	5	100.0	5	5	100.0	1	1	100.0
Race/Ethnicity											
White	5,607	26.3	4,832	5,192	93.1	4,563	4,616	98.9	2,616	3,227	81.1
Black or African American	9,783	46.0	8,484	9,145	92.8	8,103	8,209	98.7	4,758	6,008	79.2
Hispanic or Latino	3,316	15.6	2,872	3,130	91.8	2,690	2,709	99.3	1,643	2,007	81.9
Asian	204	1.0	173	182	95.1	149	152	98.0	80	98	81.6
American Indian or Alaska Native	124	0.6	109	113	96.5	108	108	100.0	76	85	89.4
Native Hawaiian or Pacific Islander	33	0.2	31	31	100.0	29	30	96.7	19	22	86.4
Multi-Race	107	0.5	98	102	96.1	94	94	100.0	39	48	81.3
Declined	36	0.2	28	30	93.3	21	22	95.5	9	18	50.0
Don't Know	1,498	7.0	1,209	1,427	84.7	1,100	1,140	96.5	425	613	69.3
Missing/Invalid	574	2.7	485	494	98.2	458	464	98.7	282	300	94.0

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[#]	Reported %[*]	N	Reported Denominator[#]	Reported %[*]	N	Reported Denominator[#]	Reported %[*]
Region											
Northeast	4,446	20.9	3,560	3,882	91.7	3,039	3,082	98.6	865	1,508	57.4
Midwest	2,126	10.0	1,307	1,629	80.2	1,194	1,212	98.5	575	747	77.0
South	10,807	50.8	10,286	10,719	96.0	10,128	10,281	98.5	6,794	8,178	83.1
West	3,695	17.4	2,960	3,408	86.9	2,746	2,761	99.5	1,589	1,861	85.4
U.S. Dependent Areas	208	1.0	208	208	100.0	208	208	100.0	124	132	93.9
Target Population											
MSM/IDU	146	0.7	122	129	94.6	115	117	98.3	60	83	72.3
MSM	4,020	18.9	3,341	3,580	93.3	3,203	3,232	99.1	1,834	2,203	83.3
Transgender/IDU	3	0.0	2	3	66.7	2	2	100.0	2	2	100.0
Transgender	589	2.8	482	586	82.3	467	477	97.9	136	456	29.8
IDU	108	0.5	77	84	91.7	73	74	98.6	43	52	82.7
Heterosexual Men	903	4.2	698	744	93.8	680	688	98.8	439	530	82.8
Heterosexual Women	1,011	4.8	805	849	94.8	776	789	98.4	474	561	84.5
No Risk/Missing/Invalid	14,502	68.1	12,794	13,871	92.2	11,999	12,165	98.6	6,959	8,539	81.5
Total	**21,282**	**100.0**	**18,321**	**19,846**	**92.3**	**17,315**	**17,544**	**98.7**	**9,947**	**12,426**	**80.0**

Reported denominator is the number of partners with valid data on the outcome and excludes missing/invalid data.

[*]Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.

[@]Named partners initiated for partner services includes recoded data and record updates.

^Determined by comparing “birth gender” and “current gender”.

[$]As reported in the risk profile.

Table 5. Newly-Identified HIV+ Partners Linked to HIV Medical Care, 57 Health Departments, 2014

Jurisdictions	Notified Partners Tested	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported Denominator#	Reported %*	N	Reported Denominator*	Reported %*
Alabama	147	0	0	N/A	0	0	N/A
Alaska	91	0	0	N/A	0	0	N/A
Arizona	54	10	45	22.2	0	9	0.0
Arkansas	42	1	1	100.0	0	0	0.0
California (excl. Los Angeles & San Francisco)	77	8	76	10.5	0	1	0.0
Los Angeles	162	30	158	19.0	11	26	42.3
San Francisco	12	0	11	0.0	0	0	N/A
Colorado	222	38	211	18.0	35	35	100.0
Connecticut	28	0	28	0.0	0	0	N/A
Delaware	18	0	18	0.0	0	0	N/A
District of Columbia	15	4	8	50.0	1	1	100.0
Florida	3,512	1,112	3,310	33.6	25	26	96.2
Georgia (excl. Atlanta)	150	35	117	29.9	0	0	0.0
Atlanta	66	12	38	31.6	0	0	0.0
Hawaii	15	1	15	6.7	0	1	0.0
Idaho	6	0	0	N/A	0	0	N/A
Illinois (excl. Chicago)	23	0	23	0.0	0	0	N/A
Chicago	93	1	1	100.0	0	0	0.0
Indiana	14	5	10	50.0	5	5	100.0
Iowa	44	3	33	9.1	1	2	50.0
Kentucky	20	1	1	100.0	0	0	0.0
Louisiana	155	9	152	5.9	1	9	11.1
Maine	7	0	0	N/A	0	0	N/A
Maryland (excl. Baltimore)	525	308	480	64.2	154	155	99.4
Baltimore	310	184	286	64.3	82	82	100.0
Massachusetts	37	0	2	0.0	0	0	N/A
Michigan	43	9	42	21.4	0	5	0.0
Minnesota	46	7	45	15.6	1	2	50.0
Mississippi	340	126	320	39.4	3	3	100.0

Jurisdictions	Notified Partners Tested	Partners Newly Identified as HIV-Positive			Newly Identified Partners Attended First HIV Medical Care Appointment		
		N	Reported Denominator#	Reported %*	N	Reported Denominator*	Reported %*
Missouri	165	16	141	11.3	0	0	0.0
Montana	16	7	16	43.8	3	4	75.0
Nebraska	9	3	9	33.3	0	0	0.0
Nevada	467	0	0	N/A	0	0	N/A
New Hampshire	5	0	0	N/A	0	0	N/A
New Jersey	11	1	11	9.1	0	0	0.0
New Mexico	43	18	43	41.9	1	1	100.0
New York (excl. New York City)	212	30	202	14.9	13	15	86.7
New York City	216	40	207	19.3	30	33	90.9
North Carolina	673	372	673	55.3	70	83	84.3
North Dakota	8	1	8	12.5	0	0	0.0
Ohio	73	55	73	75.3	50	51	98.0
Oklahoma	166	40	165	24.2	9	9	100.0
Oregon	38	9	37	24.3	0	0	0.0
Pennsylvania (excl. Philadelphia)	10	0	0	N/A	0	0	N/A
Philadelphia	290	31	290	10.7	21	25	84.0
Rhode Island^	49	4	49	8.2	3	4	75.0
South Carolina	469	289	454	63.7	0	0	0.0
South Dakota	6	1	4	25.0	0	0	0.0
Tennessee	15	2	7	28.6	0	0	0.0
Utah	268	0	0	N/A	0	0	N/A
Vermont	0	0	0	N/A	0	0	N/A
Virginia	144	1	4	25.0	0	0	0.0
Washington	118	8	100	8.0	1	1	100.0
West Virginia	27	0	0	N/A	0	0	N/A
Wisconsin	51	9	51	17.6	0	9	0.0
Puerto Rico	123	2	5	40.0	0	0	0.0
U.S. Virgin Islands	1	1	1	100.0	0	1	0.0
Total	9,947	2,844	7,981	35.6	520	598	87.0

#Reported denominator is the number of partners with valid data on the outcome and excludes missing/invalid data.
*Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.
^ Data reflect a partial submission.

Table 6. Demographic and Risk Behavior Characteristics of Newly-Identified HIV+ Partners Linked to HIV Medical Care, 57 Health Departments, 2014

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 Denominator#	Reported %*	N	Reported Denominator#	Reported %*
Age								
<13	39	0.4	6	29	20.7	0	0	0.0
13-19	247	2.5	45	205	22.0	12	15	80.0
20-29	3,641	36.6	1,046	2,994	34.9	216	248	87.1
30-39	2,552	25.7	756	2,080	36.3	134	154	87.0
40-49	1,660	16.7	565	1,394	40.5	94	104	90.4
50+	1,374	13.8	414	1,130	36.6	62	74	83.8
Missing/Invalid	434	4.4	12	149	8.1	2	3	66.7
Gender								
Male	7,758	78.0	2,446	6,287	38.9	431	490	88.0
Female	1,800	18.1	373	1,500	24.9	87	99	87.9
Transgender	138	1.4	17	133	12.8	2	5	40.0
Declined/Not Asked	250	2.5	8	61	13.1	0	4	0.0
Missing/Invalid	1	0.0	0	0	0.0	0	0	N/A
Race/Ethnicity								
White	2,616	26.3	614	2,110	29.1	110	130	84.6
Black or African American	4,758	47.8	1,707	4,093	41.7	330	363	90.9
Hispanic or Latino	1,643	16.5	415	1,300	31.9	63	81	77.8
Asian	80	0.8	9	55	16.4	2	2	100.0
American Indian or Alaska Native	76	0.8	12	44	27.3	2	2	100.0
Native Hawaiian or Pacific Islander	19	0.2	4	11	36.4	0	1	0.0
Multi-Race	39	0.4	8	27	29.6	3	4	75.0
Declined	9	0.1	2	9	22.2	0	0	0.0
Don't Know	425	4.3	69	286	24.1	10	14	71.4
Missing/Invalid	282	2.8	4	46	8.7	0	1	0.0

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 Denominator#	Reported %*	N	Reported Denominator#	Reported %*
Region								
Northeast	865	8.7	106	789	13.4	67	77	87.0
Midwest	575	5.8	110	440	25.0	57	74	77.0
South	6,794	68.3	2,496	6,034	41.4	345	368	93.8
West	1,589	16.0	129	712	18.1	51	78	65.4
U.S. Dependent Areas	124	1.2	3	6	50.0	0	1	0.0
Target Population								
MSM/IDU	60	0.6	10	43	23.3	3	3	100.0
MSM	1,834	18.4	608	1,579	38.5	109	139	78.4
Transgender/IDU	2	0.0	1	1	100.0	1	1	100.0
Transgender	136	1.4	16	132	12.1	1	4	25.0
IDU	43	0.4	11	37	29.7	1	3	33.3
Heterosexual Men	439	4.4	121	387	31.3	30	40	75.0
Heterosexual Women	474	4.8	135	409	33.0	33	40	82.5
No Risk/Missing/Invalid	6,959	70.0	1,942	5,393	36.0	342	368	92.9
Total	**9,947**	**100.0**	**2,844**	**7,981**	**35.6**	**520**	**598**	**87.0**

#Reported denominator is the number of partners with valid data on the outcome and excludes missing/invalid data.
*Reported percentage was calculated based on individuals with valid data on the outcome and excludes missing/invalid data.
^Determined by comparing “birth gender” and “current gender”.
$As reported in the risk profile.