

AIDS EDUCATION AND TRAINING CENTERS (AETC)

ANNUAL DATA REPORT

2017

Reporting Years:

**2011–2012, 2012–2013, 2013–2014,
2014–2015, 2015–2016, 2016–2017**



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Data are presented for training events and trainees reported by AETC grant recipients from July 2010 through June 2017.

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Information about the Ryan White HIV/AIDS Program: hab.hrsa.gov

Educational and technical assistance materials about HIV infection and the Ryan White HIV/AIDS Program: targethiv.org

Information about the AETC National Resource Center: aidsetc.org

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Contents

COMMENTARY	1
TECHNICAL NOTES	4
TABLES	5
Table 1. RWHAP AIDS Education and Training Centers (AETC) training events and trainees by year, 2011–2017—United States and 3 territories	5
Table 2. RWHAP AIDS Education and Training Centers (AETC) training events by year and training topic, other support, collaborating organization, and training modality, 2011–2017—United States and 3 territories	5
Table 3. RWHAP AIDS Education and Training Centers (AETC) trainees by year and selected characteristics, 2011–2016—United States and 3 territories	8
Table 4. RWHAP AIDS Education and Training Centers (AETC) trainees by race/ethnicity and profession/discipline, 2016—United States and 3 territories	9
Table 5. RWHAP AIDS Education and Training Centers (AETC) trainees by gender and profession/discipline, 2016—United States and 3 territories	9
Table 6. RWHAP AIDS Education and Training Centers (AETC) trainees by year and selected service delivery characteristics, 2011–2016—United States and 3 territories	10
Table 7. RWHAP AIDS Education and Training Center (AETC) trainees who serve people living with HIV (PLWH) by year and selected service delivery characteristics, 2011–2016—United States and 3 territories	11
Table 8. RWHAP AIDS Education and Training Centers (AETC) trainees by race/ethnicity and service delivery to people living with HIV (PLWH), 2016—United States and 3 territories	12
Table 9. RWHAP AIDS Education and Training Centers (AETC) trainees by year and primary employment setting, 2011–2016—United States and 3 territories	12

COMMENTARY

As a cornerstone of the Ryan White HIV/AIDS Treatment Extension Act of 2009 (Public Law 111-87 under Section 2692 of the Public Health Service [PHS] Act 42 U.S.C. 300ff-111(a); now called the Ryan White HIV/AIDS Program [RWHAP]), the AIDS Education and Training Centers (AETCs) Program is administered by the Health Resources and Services Administration's (HRSA) HIV/AIDS Bureau (HAB) and consists of the following programs:

1. The Regional AETCs work to increase the number of healthcare providers who are trained to counsel, diagnose, treat, and medically manage people living with HIV (PLWH) and to help prevent HIV transmission.
2. The National Coordinating Resource Center (NCRC) AETC, a national AETC, serves as the central convener, coordinator, disseminator, and promoter of the work of the eight Regional AETC Programs. The NCRC supports the National HIV Curriculum (NHC) development, dissemination, and optimal utilization of the NHC across the United States and its territories. The NHC offers free online HIV continuing education for novice-to-expert health professionals, students, and faculty. The AETC National Clinician Consultation Center provides timely and appropriate responses to clinical questions related to HIV infection and other infectious diseases and co-morbidities.

The Regional AETC Program works to (1) increase the size and strengthen the skills of the current HIV clinical workforce in the United States; (2) improve outcomes along the HIV care continuum, including diagnosis, linkage to care, retention in care, and viral suppression; and (3) decrease HIV transmission and, ultimately, reduce HIV incidence by training the front-line workforce.

Additionally, the AETC Program provides funding to build the capacity of racial and ethnic minority providers and minority-serving health professionals and to address the disproportionate impact of HIV/AIDS on racial and ethnic minority populations through the Minority AIDS Initiative.

The primary audiences for trainings conducted by the RWHAP Regional AETCs are novice and low-volume HIV treatment providers, allied health professionals, and healthcare support staff who treat PLWH and people who are at high risk for HIV. Trainings are intended for traditional prescribers (e.g., physicians, physician assistants, nurse practitioners) and other health professionals (e.g., dentists, psychiatrists, pharmacists).

To strengthen the HIV workforce, the RWHAP Regional AETCs offer training on a variety of topics—including, but not limited to, HIV-related basic science and epidemiology, interpretation of HIV drug-resistance testing, and management of antiretroviral medications. The Regional AETCs train across many practice settings, from health centers and mental health clinics to community-based organizations and providers in private practice. Training events within the Regional AETC programs are conducted through different modalities based on adult learning theory. The types of training interactions include clinical training, group and individual clinical consultations, skills building, technical assistance, didactic presentations, and any combination of these interactions.

The data in this report summarize the activities and work of the RWHAP Regional AETC Programs from July 2010 through June 2017. In September 2015, the number of Regional AETCs was reduced from 11 to eight. At this time, priorities shifted within the AETC Program to increase emphasis on improving systems of care to drive health outcomes through practice transformation and interprofessional education. The reduced number of events and participants (trainees) displayed in the report tables for data beginning September 2015 may reflect these changes to the AETC Program.

RWHAP AETC recipients submit data to HRSA HAB that correspond to a specific data collection period each year, which can change from year to year. In particular, the July 2014–August 2015 and September 2015–June 2016 reporting periods differ from other reporting periods.

During the July 2016–June 2017 reporting year, data collection systems changed; therefore, trainee data are not available for that reporting year. See Technical Notes for additional information.

HIGHLIGHTS OF ANALYSES

Unless otherwise specified, the highlights presented are the **averages** across the 5-year period from 2011 through 2016. Readers are encouraged to review all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

Training Events

From July 2011 through August 2015, AETCs conducted a total of 58,210 training events with 14,500 training events per year, reaching nearly 83,000 unique trainees each year (range: 79,176–85,471). From September 2015 through June 2017, AETCs conducted a total of 17,166 training events with 8,500 training events per year, and from September 2015 through June 2016, AETC events reached 50,600 trainees. As noted previously, trainee data are not available for July 2016 through June 2017 due to changes in reporting (**Table 1**).

Training Event Topics and Modalities

Most Frequent Training Event Topics

The most frequently presented topics in AETC training events from July 2011 through June 2016 were antiretroviral treatment (presented in 52% of training events during those years) and medication adherence (39% of events) (**Table 2**). Other frequently presented topics included co-morbidities (33%), clinical manifestations of HIV disease (30%), and routine HIV laboratory tests (30%). These training topics are not mutually exclusive; AETC training events typically include more than one topic. Because of modifications made to the data collection Participant Information Forms (PIFs) and Event Record (ER) tool during the July 2016–June 2017 reporting period, the proportions in the training frequencies during that period shifted.

Target Populations

Training topics from July 2011 through June 2016 focused on many key populations of PLWH, including racial and ethnic minorities (29%); women (23%); and gay, lesbian, bisexual, and transgender populations (22%) (**Table 2**).

Training Modalities

The training modalities or technologies used most frequently from July 2011 through June 2016 were chart and/or case reviews (41%), followed by lectures/workshops (37%) and telephone/conference calls (21%) (**Table 2**).

AETC Trainees

To improve the quality of healthcare provided by the HIV healthcare workforce and increase access to high-quality HIV care for vulnerable and underserved populations, AETCs concentrate on reaching professionals who have direct patient care responsibilities for PLWH, especially those who serve racial and ethnic minority patients and those working at RWHAP- and HRSA-supported clinical health centers.

The majority of AETC trainees during the period July 2011 through June 2016 self-identified as White (55%), followed by 20% as Black and 14% as Hispanic/Latino. Nearly three-quarters of AETC trainees were female, while 26% of trainees were male and less than 1% of trainees were transgender (**Table 3**).

Nurses and advanced practice nurses accounted for 30% of AETC trainees from July 2011 through June 2016, while physicians accounted for 16% of AETC trainees. Other non-clinical professionals accounted for 11% of AETC trainees. Dietitians and nutritionists, health educators, mental or behavioral health professionals, social workers, substance abuse professionals, community health workers, clergy or faith-based professionals, and other public health professionals accounted for 26% of all AETC trainees. Trainees reported their primary functional roles within their organization. The most commonly reported roles were care provider/clinician (39%) and case manager (12%) (**Table 3**).

In 2016, across all racial/ethnic groups except Asians, nurses accounted for the highest percentage of trainees; among Asians, the highest percentage of trainees were physicians (40%) (**Table 4**). In 2016, the highest percentages of profession by gender were as follow: Among males, 29% were physicians; among females, 27% were nurses; and among transgender individuals, 22% were other non-clinical professionals (**Table 5**).

Service Delivery of AETC Trainees

Regional AETC programs train and support clinicians and health care professionals who provide direct care and services to patients. During the period July 2011 through June 2016, the majority of trainees (77%) provided direct clinical services, and patient populations were mostly composed of more than 50% racial/ethnic minorities (**Table 6**).

Service Delivery to People Living with HIV

From July 2011 through June 2016, 72% of AETC trainees provided direct services to PLWH. Most AETC trainees (42%) treated one to nine PLWH in the month prior to their training event; 15% treated 10–19 PLWH, 19% treated 20–49 PLWH, and 20% treated 50 or more PLWH (**Table 7**).

Approximately half of AETC trainees from July 2011 through June 2016 served PLWH patient populations composed of at least 50% racial/ethnic minorities. For two-thirds of trainees (67%), less than 25% of their PLWH patients had hepatitis C coinfection. Ninety-five percent of PLWH served by the AETC trainees were on antiretroviral therapy. For more than half of trainees (53%), less than 25% of their patients were women (**Table 7**).

In 2016, the number of years clinicians had provided direct care to PLWH varied slightly by race/ethnicity of trainees. Asian trainees had the fewest number of years of experience directly treating PLWH, with 24% having less than a year of prior experience. White trainees reported the most prior experience treating PLWH, with 21% reporting more than 20 years of direct service provision to this population (**Table 8**).

Employment Setting of Trainees

From July 2011 through June 2016, the primary employment setting for most of the RWHAP AETC trainees was in a suburban/urban area (78%). Overall, approximately half of AETC trainees worked in an RWHAP-funded employment setting (**Table 9**).

TECHNICAL NOTES

Each year, AETC grant recipients report data to HRSA HAB about the training events sponsored and the trainees who participated in those events in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands.

Information collected on training events includes the topics covered, names of collaborating organizations, types of funds used from special initiatives, type and length of sessions, training modalities or technologies used, the total number of trainees in attendance, and the total number of Participant Information Forms (PIFs) collected from participating trainees.

Information collected on trainees includes demographic information (e.g., profession, functional role, race/ethnicity, and gender). In addition, information on trainees' employment settings is collected (e.g., if the setting is in a rural or suburban/urban area, if the setting is a faith-based organization, if the setting receives RWHAP funding, and the ZIP code of the setting). Patient care information also is collected from trainees (e.g., if they provide services directly to PLWH; how many years of experience they have providing such services; the average number of PLWH they see per month; and estimates of the percentage of the clients to whom they provide services that are racial/ethnic minorities, are co-infected with hepatitis C, are receiving antiretroviral therapy, or are women).

Data are submitted to HRSA HAB each year and contain information on all activities that occurred during a specific time frame. During the July 2016–June 2017 data collection period, HRSA HAB implemented new PIF and ER data forms. The switch between tools resulted in the concurrent use of both forms during the transition period, as well as inconsistencies in trainee data collection. Therefore, reliable trainee information for that reporting period is not available.

Following the end of every data collection period, HAB cleaned the data to ensure data validity. RWHAP AETC trainees then were linked across all the events in which they participated. In cases where information was not collected from a trainee (i.e., resulting in missing data), HRSA HAB applied a weighted imputation technique to accurately estimate the true number of trainees. All tables in this report that present counts of trainees include these imputed counts. After all data processing was complete, the final data were used in reporting and analysis.

Table 1. RWHAP AIDS Education and Training Centers (AETC) training events and trainees by year, 2011–2017—United States and 3 territories

Year	Events	Trainees
July 2011–June 2012	14,390	84,575
July 2012–June 2013	14,702	85,471
July 2013–June 2014	14,809	81,736
July 2014–August 2015	14,309	79,176
September 2015–June 2016 ^a	7,274	50,645
July 2016–June 2017 ^b	9,892	—

^a Please see technical notes regarding changes in reporting beginning September 2015.

^b Note: Participant data unavailable for July 2016–June 2017 reporting year.

Table 2. RWHAP AIDS Education and Training Centers (AETC) training events by year and training topic, other support, collaborating organization, and training modality, 2011–2017—United States and 3 territories

Training topic	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016		July 2016–June 2017	
	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events
Most frequently presented training topics												
Antiretroviral treatment	7,238	50.5	8,231	56.2	7,523	51.1	7,265	51.0	3,577	49.3	3,226	35.3
Basic science/epidemiology	3,305	23.1	3,612	24.7	3,483	23.6	3,289	23.1	1,905	26.3	2,493	27.3
Clinical manifestations of HIV disease	4,882	34.1	5,134	35.0	4,135	28.1	3,980	27.9	1,845	25.4	2,132	23.3
Co-morbidities	4,744	33.1	5,279	36.0	4,840	32.9	4,516	31.7	2,279	31.4	2,894	31.7
Hepatitis A, B, C	3,467	24.2	4,113	28.1	3,884	26.4	3,278	23.0	1,553	21.4	2,076	22.7
HIV routine lab test	4,492	31.4	5,065	34.6	4,237	28.8	4,137	29.0	1,935	26.7	2,215	24.2
Medication adherence	5,345	37.3	6,266	42.8	5,724	38.9	5,344	37.5	2,596	35.8	697	7.6
Non-ART treatment ^a	3,247	22.7	3,992	27.2	3,222	21.9	2,858	20.1	1,322	18.2	338	3.7
Nutrition	1,788	12.5	2,319	15.8	1,531	10.4	1,076	7.6	394	5.4	417	4.6
Opportunistic infections	3,856	26.9	4,559	31.1	3,853	26.2	3,395	23.8	1,545	21.3	1,493	16.3
Oral health	1,436	10.0	1,834	12.5	1,357	9.2	1,078	7.6	380	5.2	485	5.3
Pediatric HIV management/perinatal transmission	1,365	9.5	1,421	9.7	1,382	9.4	1,166	8.2	623	8.6	763	8.3
Pre/post-exposure prophylaxis (occupational and non-occupational)	1,888	13.2	2,124	14.5	2,279	15.5	2,754	19.3	1,881	25.9	3,032	33.2
Reproductive health	1,888	13.2	2,501	17.1	1,998	13.6	1,574	11.1	699	9.6	675	7.4
Resistance/genotype-phenotype interpretation ^a	3,026	21.1	3,653	24.9	3,256	22.1	2,922	20.5	1,403	19.4	406	4.4
Routine primary care screenings ^a	4,047	28.3	4,423	30.2	3,877	26.3	3,588	25.2	1,703	23.5	494	5.4
Health care organization and delivery issues												
Agency needs assessment	1,062	7.4	1,337	9.1	1,652	11.2	1,187	8.3	731	10.1	750	8.2
Community linkages	2,828	19.7	3,363	23.0	3,122	21.2	2,766	19.4	1,719	23.7	2,383	26.1
Cultural competence	1,769	12.4	1,988	13.6	1,959	13.3	2,135	15.0	1,195	16.5	2,108	23.1
Education development/delivery ^a	2,353	16.4	2,702	18.4	2,406	16.3	1,923	13.5	1,254	17.3	465	5.1
Grant issues ^a	629	4.4	505	3.4	542	3.7	464	3.3	321	4.4	101	1.1
Health literacy	886	6.2	1,163	7.9	1,220	8.3	1,064	7.5	602	8.3	1,205	13.2
Health organization and finances ^a	412	2.9	407	2.8	631	4.3	423	3.0	365	5.0	141	1.5
Healthcare development/clinical service coordination ^a	1,908	13.3	2,164	14.8	2,151	14.6	1,971	13.8	1,281	17.7	462	5.1
HIPAA/confidentiality	1,249	8.7	1,447	9.9	1,349	9.2	1,050	7.4	624	8.6	892	9.8
Quality improvement	2,377	16.6	2,925	20.0	2,394	16.3	2,290	16.1	1,139	15.7	1,710	18.7
Resource allocation	1,115	7.8	1,297	8.9	1,232	8.4	932	6.5	617	8.5	678	7.4
Risk assessment	3,336	23.3	3,419	23.3	3,489	23.7	3,438	24.1	1,947	26.9	2,349	25.7
Risk reduction/harm reduction	4,028	28.1	4,489	30.6	4,019	27.3	3,795	26.6	2,054	28.3	1,729	18.9
Routine HIV testing	3,957	27.6	3,969	27.1	3,843	26.1	3,383	23.8	1,849	25.5	1,633	17.9
Technology	680	4.7	608	4.2	795	5.4	689	4.8	452	6.2	656	7.2

Table 2. RWHAP AIDS Education and Training Centers (AETC) training events by year and training topic, other support, collaborating organization, and training modality, 2011–2017—United States and 3 territories (cont.)

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016		July 2016–June 2017	
	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events
Psychosocial issues												
Mental health	3,073	21.5	3,399	23.2	3,328	22.6	3,110	21.8	1,486	20.5	1,480	16.2
Substance abuse	2,989	20.9	3,399	23.2	3,179	21.6	2,751	19.3	1,528	21.1	1,337	14.6
Target populations												
Adolescent (Ages 13–24 years)	2,287	16.0	2,196	15.0	1,915	13.0	1,872	13.1	1,122	15.5	2,126	23.3
Children (Birth–12 years)	1,064	7.4	1,215	8.3	895	6.1	648	4.6	353	4.9	416	4.6
Gay/lesbian/bisexual/transgender	3,214	22.4	2,600	17.7	2,794	19.0	2,954	20.7	1,865	25.7	2,507	27.4
Homeless/with unstable housing	1,801	12.6	1,695	11.6	1,594	10.8	1,617	11.4	1,051	14.5	1,244	13.6
Immigrant/border populations	1,333	9.3	1,359	9.3	1,246	8.5	1,268	8.9	809	11.2	796	8.7
Incarcerated individuals	1,897	13.2	1,952	13.3	1,805	12.3	1,523	10.7	683	9.4	727	8.0
People over 50 years of age	2,776	19.4	2,421	16.5	2,354	16.0	2,308	16.2	1,330	18.3	1,934	21.2
Racial/ethnic minorities	4,421	30.9	4,197	28.6	3,811	25.9	3,752	26.3	2,204	30.4	2,741	30.0
Rural populations	2,133	14.9	2,000	13.7	1,729	11.7	2,174	15.3	1,249	17.2	1,340	14.7
Women	3,440	24.0	3,474	23.7	3,065	20.8	3,049	21.4	1,730	23.9	2,133	23.3
Other populations	298	2.1	237	1.6	402	2.7	415	2.9	210	2.9	337	3.7
Number of events	14,320	—	14,650	—	14,730	—	14,241	—	7,250	—	9,141	—
Other support												
Most frequent additional funding sources												
American Indian/Alaska Native Initiative ^a	260	1.8	288	2.0	217	1.5	137	1.0	107	1.5	11	0.2
Border Health Initiative ^a	129	0.9	113	0.8	79	0.5	58	0.4	28	0.4	9	0.2
Minority AIDS Initiative (MAI)	4,745	33.2	4,939	33.7	4,964	33.6	4,646	32.6	2,043	29.0	2,652	59.3
None of the above ^a	9,278	65.0	9,394	64.1	9,569	64.8	9,426	66.2	4,870	69.1	1,798	40.2
Number of events	14,280	—	14,658	—	14,772	—	14,247	—	7,048	—	4,470	—
Other organizations helped with this event												
None	8,319	59.1	7,712	56.3	8,656	59.7	8,986	63.5	4,111	58.2	1,549	32.7
Other AETCs	485	3.4	502	3.7	723	5.0	553	3.9	131	1.9	36	0.8
Delta	6	<0.1	10	0.1	4	<0.1	3	<0.1	3	<0.1	0	0.0
Florida/Caribbean	8	0.1	36	0.3	41	0.3	34	0.2	5	0.1	4	0.1
Midwest	33	0.2	21	0.2	44	0.3	68	0.5	18	0.3	4	0.1
Mountain Plains	20	0.1	17	0.1	20	0.1	17	0.1	3	<0.1	2	<0.1
New England	50	0.4	48	0.4	90	0.6	64	0.5	17	0.2	17	0.4
New York/New Jersey	7	<0.1	13	0.1	11	0.1	4	<0.1	7	0.1	4	0.1
Northwest	10	0.1	4	<0.1	1	<0.1	5	<0.1	5	0.1	0	0.0
Pacific	44	0.3	26	0.2	23	0.2	4	0.0	11	0.2	1	<0.1
Pennsylvania/Mid-Atlantic	44	0.3	39	0.3	100	0.7	63	0.4	6	0.1	2	<0.1
Southeast	16	0.1	16	0.1	29	0.2	19	0.1	11	0.2	2	<0.1
Texas/Oklahoma	79	0.6	130	0.9	147	1.0	69	0.5	54	0.8	5	0.1
National Clinician Consultation Center (NCCC)	16	0.1	14	0.1	12	0.1	5	<0.1	0	0.0	0	0.0
National Multi-Cultural Center (NMCC)	7	<0.1	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0
National Resource Center (NRC)	43	0.3	57	0.4	34	0.2	9	0.1	6	0.1	2	<0.1
National Evaluation Center (NEC)	14	0.1	12	0.1	6	<0.1	0	0.0	1	<0.1	1	<0.1
Capacity Building Assistance for Community Health Centers	172	1.2	101	0.7	181	1.2	204	1.4	5	0.1	0	0.0

Table 2. RWHAP AIDS Education and Training Centers (AETC) training events by year and training topic, other support, collaborating organization, and training modality, 2011–2017—United States and 3 territories (cont.)

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016		July 2016–June 2017	
	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events	No.	% of training events
Other training centers	287	2.0	467	3.4	399	2.8	293	2.1	62	0.9	123	2.6
Addiction Technology Transfer Center (ATTC)	36	0.3	39	0.3	39	0.3	37	0.3	16	0.2	12	0.3
Area Health Education Center (AHEC)	90	0.6	310	2.3	276	1.9	179	1.3	29	0.4	40	0.8
Prevention Training Center (PTC)	72	0.5	88	0.6	86	0.6	80	0.6	18	0.3	64	1.4
Regional Training Center (RTC) ^a	132	0.9	43	0.3	26	0.2	17	0.1	7	0.1	1	<0.1
TB Training Center	22	0.2	21	0.2	27	0.2	17	0.1	6	0.1	11	0.2
Other agencies	5,445	38.7	5,575	40.7	5,350	36.9	4,801	33.9	2,822	40.0	3,097	65.5
AIDS community-based organization	560	4.0	634	4.6	659	4.5	607	4.3	470	6.7	486	10.3
College/university/health professions school	1,307	9.3	1,192	8.7	1,237	8.5	1,272	9.0	798	11.3	843	17.8
Faith-based organization	111	0.8	97	0.7	153	1.1	112	0.8	42	0.6	28	0.6
Community health center	1,238	8.8	1,475	10.8	1,541	10.6	1,343	9.5	838	11.9	995	21.0
Historically black college or university/Hispanic-serving institution/tribal college or university	82	0.6	98	0.7	124	0.9	139	1.0	203	2.9	179	3.8
Hospital/hospital-based clinic	1,578	11.2	1,881	13.7	1,878	12.9	1,767	12.5	748	10.6	775	16.4
Agency funded by Ryan White HIV/AIDS Program	2,350	16.7	2,210	16.1	2,364	16.3	2,354	16.6	1,323	18.7	1,434	30.3
Tribal health organizations	239	1.7	155	1.1	127	0.9	83	0.6	123	1.7	141	3.0
Corrections	853	6.1	849	6.2	560	3.9	269	1.9	113	1.6	95	2.0
Number of events: all three collaborative organizations	14,073	—	13,687	—	14,507	—	14,162	—	7,059	—	4,730	—
Training modality												
Training modalities or technologies applied in the event												
Chart/case review ^a	5,688	41.4	6,511	45.9	5,934	42.0	5,722	40.9	2,166	32.8	553	19.8
Clinical preceptorship/mini-residency	1,963	14.3	1,820	12.8	1,844	13.1	1,951	14.0	1,051	15.9	353	12.7
Computer-based ^a	2,005	14.6	2,360	16.6	2,325	16.5	2,072	14.8	1,044	15.8	500	17.9
Conference call/telephone ^a	3,143	22.9	3,000	21.2	3,277	23.2	3,262	23.3	1,093	16.6	439	15.7
Lecture/workshop	4,823	35.1	4,790	33.8	4,922	34.8	5,175	37.0	2,936	44.5	866	31.0
Role play/simulation	756	5.5	674	4.8	604	4.3	798	5.7	470	7.1	665	23.8
Self-study	191	1.4	292	2.1	496	3.5	434	3.1	150	2.3	100	3.6
Telemedicine ^a	553	4.0	752	5.3	708	5.0	416	3.0	146	2.2	41	1.5
Webcast/webinar ^a	387	2.8	517	3.6	818	5.8	915	6.5	318	4.8	129	4.6
Number of events	13,746	—	14,178	—	14,126	—	13,974	—	6,594	—	2,790	—

Notes: When calculating percentages for each category, this report does not include training events that did not return data for that category, unlike in previous AETC reports.

Training topics are not mutually exclusive; AETC training events typically include more than one topic.

^a Data category not included in 2016 instrument. See Technical Notes for additional information.

Table 3. RWHAP AIDS Education and Training Centers (AETC) trainees by year and selected characteristics, 2011–2016—United States and 3 territories

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016	
	No.	%	No.	%	No.	%	No.	%	No.	%
Race/ethnicity										
American Indian/Alaska Native	1,448	1.8	1,438	1.7	1,225	1.6	1,277	1.7	969	2.0
Asian	6,221	7.6	6,057	7.3	5,795	7.3	5,401	7.0	3,624	7.5
Black/African American	15,614	19.2	16,565	20.1	15,365	19.4	14,842	19.3	10,132	20.9
Hispanic/Latino ^a	10,637	13.1	10,918	13.2	10,555	13.3	10,626	13.8	6,848	14.1
Native Hawaiian/Pacific Islander	629	0.8	525	0.6	501	0.6	313	0.4	145	0.3
Multiple races	1,748	2.1	1,912	2.3	1,842	2.3	3,132	4.1	1,076	2.2
White	45,231	55.5	45,221	54.7	43,844	55.4	41,525	53.9	25,800	53.1
Subtotal	81,526	100.0	82,636	100.0	79,126	100.0	77,116	100.0	48,595	100.0
Gender										
Male	21,389	26.1	21,358	25.6	21,229	26.6	20,608	26.6	12,616	25.7
Female	60,417	73.7	61,782	74.1	58,353	73.1	56,657	73.1	36,172	73.8
Transgender	220	0.3	231	0.3	237	0.3	278	0.4	251	0.5
Subtotal	82,026	100.0	83,371	100.0	79,819	100.0	77,542	100.0	49,039	100.0
Professional discipline										
Advanced practice nurse	4,864	5.8	4,814	5.7	4,530	5.6	4,717	6.0	3,112	6.2
Clergy/faith-based professional	233	0.3	188	0.2	167	0.2	154	0.2	103	0.2
Community health worker	1,974	2.4	2,265	2.7	2,044	2.5	2,607	3.3	1,672	3.4
Dentist	2,679	3.2	2,481	2.9	2,573	3.2	2,309	2.9	1,326	2.7
Dietitian/nutritionist	451	0.5	495	0.6	350	0.4	374	0.5	199	0.4
Health educator	3,045	3.7	3,180	3.8	2,870	3.5	3,070	3.9	1,967	3.9
Mental/behavioral health professional	2,418	2.9	2,460	2.9	2,157	2.7	2,245	2.9	1,448	2.9
Nurse	20,748	24.9	21,477	25.4	21,633	26.7	18,008	22.9	10,874	21.8
Pharmacist	5,335	6.4	5,466	6.5	5,529	6.8	5,711	7.3	3,616	7.2
Physician	14,127	17.0	13,696	16.2	13,401	16.5	12,455	15.9	7,682	15.4
Physician assistant	2,644	3.2	2,361	2.8	2,598	3.2	2,174	2.8	1,462	2.9
Social worker	7,004	8.4	7,641	9.0	6,485	8.0	7,146	9.1	4,459	8.9
Substance abuse professional	1,415	1.7	1,380	1.6	1,014	1.3	1,131	1.4	739	1.5
Other dental professional	3,164	3.8	3,572	4.2	2,860	3.5	3,098	4.0	1,475	3.0
Other non-clinical professional	9,421	11.3	9,112	10.8	8,596	10.6	8,491	10.8	6,543	13.1
Other public health professional	3,784	4.5	4,081	4.8	4,232	5.2	4,807	6.1	3,257	6.5
Subtotal	83,307	100.0	84,669	100.0	81,040	100.0	78,497	100.0	49,932	100.0
Role in their organization										
Administrator	6,561	8.0	7,081	8.5	6,634	8.3	6,522	8.4	4,212	8.5
Agency board member	128	0.2	131	0.2	122	0.2	103	0.1	96	0.2
Care provider/clinician	33,276	40.5	33,860	40.5	32,148	40.1	29,945	38.6	16,977	34.3
Case manager	9,578	11.7	10,182	12.2	9,311	11.6	10,135	13.1	6,395	12.9
Client/patient educator	4,179	5.1	4,636	5.5	4,200	5.2	4,306	5.5	2,853	5.8
Clinical/medical assistant	3,629	4.4	3,813	4.6	3,598	4.5	3,513	4.5	2,296	4.6
Intern/resident	2,817	3.4	2,702	3.2	2,886	3.6	3,106	4.0	1,970	4.0
Researcher/evaluator	1,931	2.4	1,810	2.2	1,818	2.3	1,826	2.4	1,218	2.5
Student/graduate student	5,810	7.1	5,169	6.2	5,508	6.9	4,900	6.3	4,488	9.1
Teacher/faculty	2,662	3.2	2,705	3.2	2,659	3.3	2,595	3.3	1,564	3.2
Other	11,619	14.1	11,620	13.9	11,295	14.1	10,708	13.8	7,423	15.0
Subtotal	82,190	100.0	83,709	100.0	80,179	100.0	77,658	100.0	49,490	100.0

Note: Percentages are rounded and may not add up to 100.0 as displayed.

^a Hispanics/Latinos can be of any race.

Table 4. RWHAP AIDS Education and Training Centers (AETC) trainees by race/ethnicity and profession/discipline, 2016—United States and 3 territories

Profession/discipline	American Indian/ Alaska Native		Asian		Black/ African American		Hispanic/Latino ^a		Native Hawaiian/ Pacific Islander		Multiple races		White	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Advanced practice nurse	21	2.2	154	4.2	505	5	166	2.5	6	4.2	61	5.7	2,073	8.1
Clergy/faith-based professional	4	0.4	0	0.0	61	0.6	11	0.2	0	0.0	0	0.0	25	0.1
Community health worker	91	9.5	39	1.1	694	6.9	450	6.6	1	0.8	40	3.7	328	1.3
Dentist	11	1.1	284	7.9	145	1.5	187	2.8	7	5.0	25	2.4	611	2.4
Dietitian/nutritionist	1	0.1	4	0.1	24	0.2	28	0.4	0	0.0	8	0.8	127	0.5
Health educator	84	8.8	57	1.6	676	6.7	463	6.8	5	3.3	75	7.0	561	2.2
Mental/behavioral health professional	25	2.7	45	1.2	326	3.3	259	3.8	4	2.5	40	3.7	702	2.7
Nurse	224	23.5	470	13.1	2,009	20.0	1,147	16.9	44	30.0	204	19.0	6,465	25.2
Pharmacist	47	5.0	504	14.0	330	3.3	218	3.2	6	4.2	59	5.6	2,308	9.0
Physician	38	3.9	1,435	39.8	779	7.8	652	9.6	24	16.7	132	12.3	4,236	16.5
Physician assistant	17	1.8	110	3.1	128	1.3	88	1.3	5	3.3	29	2.7	1,043	4.1
Social worker	39	4.1	70	2.0	1,248	12.4	755	11.2	8	5.8	99	9.3	2,154	8.4
Substance abuse professional	47	5.0	11	0.3	252	2.5	105	1.6	7	5.0	23	2.2	274	1.1
Other dental professional	51	5.3	27	0.7	176	1.8	242	3.6	4	2.5	19	1.8	880	3.4
Other non-clinical professional	213	22.3	257	7.1	1,696	16.9	1,418	20.9	21	14.2	156	14.6	2,612	10.2
Other public health professional	42	4.4	136	3.8	984	9.8	583	8.6	4	2.5	98	9.2	1,311	5.1
Total	955	100.0	3,601	100.0	10,034	100.0	6,772	100.0	145	100.0	1,070	100.0	25,712	100.0

Notes: Percentages are rounded and may not add up to 100.0 as displayed.

Numbers displayed in this table represent unique trainees; trainees are linked across training events within a particular year.

When participants included multiple professions/disciplines in their responses, that participant's data were split among the various categories (e.g., a participant responding with two professions would be counted as 0.5 per category). The data in the Number column are rounded to the nearest whole number; the Total row reflects the non-rounded figures.

When calculating percentages for each category, this report does not include professions/disciplines that did not return data for that category, unlike in previous AETC reports.

^a Hispanics/Latinos can be of any race.

Table 5. RWHAP AIDS Education and Training Centers (AETC) trainees by gender and profession/discipline, 2016—United States and 3 territories

Profession/discipline	Male		Female		Transgender	
	No.	%	No.	%	No.	%
Advanced practice nurse	328	2.6	2,704	7.5	12	4.9
Clergy/faith-based professional	45	0.4	52	0.2	4	1.5
Community health worker	510	4.1	1,089	3.0	35	14.2
Dentist	658	5.2	612	1.7	6	2.4
Dietitian/nutritionist	12	0.1	181	0.5	1	0.5
Health educator	643	5.1	1,272	3.5	28	11.2
Mental/behavioral health professional	376	3.0	1,032	2.9	11	4.4
Nurse	996	7.9	9,611	26.8	27	10.7
Pharmacist	1,346	10.7	2,143	6.0	4	1.5
Physician	3,616	28.8	3,801	10.6	7	2.9
Physician assistant	405	3.2	1,011	2.8	1	0.5
Social worker	829	6.6	3,525	9.8	35	14.2
Substance abuse professional	222	1.8	499	1.4	1	0.5
Other dental professional	73	0.6	1,339	3.7	0	0.0
Other non-clinical professional	1,681	13.4	4,672	13.0	55	22.0
Other public health professional	811	6.5	2,375	6.6	22	8.8
Total	12,549	100.0	35,919	100.0	248	100.0

Notes: Percentages are rounded and may not add up to 100.0 as displayed.

Numbers displayed in this table represent unique trainees; trainees are linked across training events within a particular year.

When participants included multiple professions/disciplines in their responses, that participant's data were split among the various categories (e.g., a participant responding with two professions would be counted as 0.5 per category). The data in the Number column are rounded to the nearest whole number; the Total row reflects the non-rounded figures.

Table 6. RWHAP AIDS Education and Training Centers (AETC) trainees by year and selected service delivery characteristics, 2011–2016—United States and 3 territories

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016	
	No.	%	No.	%	No.	%	No.	%	No.	%
Provide direct service to clients										
Yes	64,842	78.0	66,406	78.7	62,182	76.9	59,704	76.9	36,820	74.8
No	18,257	22.0	17,975	21.3	18,652	23.1	17,911	23.1	12,432	25.2
Subtotal	83,099	100.0	84,381	100.0	80,834	100.0	77,615	100.0	49,252	100.0
Percentage of minority clients served										
None per year	1,385	2.3	3,856	5.9	6,478	10.1	1,999	3.5	448	1.3
1–24% per year	12,525	20.7	12,206	18.7	10,970	17.0	10,215	17.7	5,701	16.1
25–49% per year	13,167	21.8	13,440	20.6	13,305	20.6	12,289	21.2	7,785	21.9
50–74% per year	15,691	26.0	17,241	26.4	16,181	25.1	16,033	27.7	10,193	28.7
≥ 75% per year	17,610	29.2	18,536	28.4	17,543	27.2	17,315	29.9	11,361	32.0
Subtotal	60,377	100.0	65,277	100.0	64,477	100.0	57,851	100.0	35,488	100.0

Note: Percentages are rounded and may not add up to 100.0 as displayed.

Table 7. RWHAP AIDS Education and Training Center (AETC) trainees who serve people living with HIV (PLWH) by year and selected service delivery characteristics, 2011–2016—United States and 3 territories

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016	
	No.	%	No.	%	No.	%	No.	%	No.	%
Provide direct service to PLWH										
Yes	46,375	72.6	48,513	71.0	44,590	69.6	42,875	73.6	26,858	72.2
No	17,537	27.4	19,846	29.0	19,486	30.4	15,415	26.5	10,353	27.8
Subtotal	63,912	100.0	68,359	100.0	64,076	100.0	58,290	100.0	37,211	100.0
Years of service directly to PLWH										
≤1	6,794	15.1	13,855	26.0	12,552	25.7	13,725	28.5	4,781	18.3
2–4	9,801	21.7	10,123	19.0	9,487	19.4	8,907	18.5	5,963	22.8
5–9	8,833	19.6	9,169	17.2	8,283	17.0	8,150	16.9	4,898	18.7
10–19	11,905	26.4	11,780	22.1	10,755	22.0	10,129	21.0	6,009	22.9
≥ 20	7,764	17.2	8,308	15.6	7,716	15.8	7,291	15.1	4,553	17.4
Subtotal	45,097	100.0	53,234	100.0	48,793	100.0	48,203	100.0	26,204	100.0
Estimated number of PLWH clients per month										
None per month	1,905	4.2	2,148	4.5	2,422	5.5	2,689	6.3	1,216	4.6
1–9 per month	19,376	42.8	19,374	40.9	18,858	42.7	17,865	41.9	10,515	40.0
10–19 per month	6,682	14.8	7,014	14.8	6,516	14.8	6,195	14.5	3,931	15.0
20–49 per month	8,501	18.8	9,350	19.8	7,877	17.8	7,903	18.5	5,264	20.0
≥ 50 per month	8,828	19.5	9,447	20.0	8,479	19.2	8,002	18.8	5,353	20.4
Subtotal	45,292	100.0	47,333	100.0	44,154	100.0	42,655	100.0	26,279	100.0
Percentage of PLWH clients who are racial/ethnic minorities										
None per year	2,383	5.4	2,028	4.4	2,063	4.8	2,548	6.1	788	3.2
1–24% per year	11,192	25.4	10,968	23.9	9,912	23.3	9,586	22.9	5,664	22.7
25–49% per year	7,886	17.9	8,527	18.6	8,154	19.2	7,631	18.3	4,607	18.4
50–74% per year	10,733	24.3	12,062	26.3	10,881	25.6	10,610	25.4	6,516	26.1
≥ 75% per year	11,955	27.1	12,304	26.8	11,580	27.2	11,428	27.3	7,410	29.7
Subtotal	44,149	100.0	45,889	100.0	42,589	100.0	41,803	100.0	24,984	100.0
Percentage of PLWH clients who are co-infected with hepatitis C										
None per year	5,066	12.4	5,332	12.4	6,997	16.9	7,444	18.2	2,857	11.8
1–24% per year	21,044	51.5	22,022	51.4	20,716	49.9	19,974	48.7	13,280	54.8
25–49% per year	10,019	24.5	10,397	24.3	9,500	22.9	8,883	21.7	5,516	22.8
50–74% per year	3,748	9.2	4,142	9.7	3,430	8.3	3,119	7.6	1,787	7.4
≥ 75% per year	998	2.4	989	2.3	889	2.1	1,571	3.8	801	3.3
Subtotal	40,874	100.0	42,881	100.0	41,533	100.0	40,990	100.0	24,240	100.0
Percentage of PLWH clients who are receiving antiretroviral therapy										
None per year	2,259	5.2	2,066	4.6	2,002	4.8	2,558	6.2	736	3.0
1–24% per year	8,629	19.9	8,577	18.9	7,847	18.6	7,428	18.0	4,011	16.3
25–49% per year	5,122	11.8	5,185	11.4	4,765	11.3	4,377	10.6	2,363	9.6
50–74% per year	11,367	26.2	10,934	24.1	9,554	22.7	8,512	20.6	4,908	19.9
≥ 75% per year	16,067	37.0	18,573	41.0	17,953	42.6	18,494	44.7	12,669	51.3
Subtotal	43,444	100.0	45,336	100.0	42,120	100.0	41,368	100.0	24,686	100.0
Percentage of PLWH clients who are women										
None per year	6,817	15.6	6,689	14.7	7,090	16.8	6,625	16.0	3,186	12.8
1–24% per year	16,461	37.7	17,390	38.2	16,024	37.9	16,341	39.4	9,931	40.0
25–49% per year	12,690	29.1	13,526	29.7	12,345	29.2	11,894	28.7	7,800	31.4
50–74 per year	5,452	12.5	5,689	12.5	4,840	11.5	4,716	11.4	2,966	11.9
≥ 75% per year	2,256	5.2	2,293	5.0	1,966	4.7	1,866	4.5	954	3.8
Subtotal	43,676	100.0	45,588	100.0	42,266	100.0	41,442	100.0	24,837	100.0

Note: Percentages are rounded and may not add up to 100.0 as displayed.

Table 8. RWHAP AIDS Education and Training Centers (AETC) trainees by race/ethnicity and service delivery to people living with HIV (PLWH), 2016—United States and 3 territories

	American Indian/ Alaska Native		Asian		Black/ African American		Hispanic/Latino		Native Hawaiian/ Pacific Islander		Multiple races		White	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Years of service directly to PLWH														
< 1	52	16.7	440	23.8	1,013	17.5	761	19.8	17	22.2	113	20.1	2,306	17.3
2–4	91	29.1	497	26.9	1,219	21.1	918	23.8	21	27.0	132	23.6	2,982	22.4
5–9	62	19.8	303	16.4	1,249	21.6	784	20.4	11	14.3	91	16.2	2,322	17.4
10–19	63	20.2	408	22.1	1,467	25.4	874	22.7	17	22.2	130	23.2	2,941	22.1
≥ 20	45	14.3	201	10.9	834	14.4	515	13.4	11	14.3	95	16.9	2,764	20.8
Subtotal	313	100.0	1,849	100.0	5,782	100.0	3,852	100.0	76	100.0	560	100.0	13,314	100.0
Percentage of PLWH who are racial/ethnic minorities														
None per year	16	5.3	74	4.2	80	1.4	71	1.9	2	3.5	19	3.6	470	3.7
1–24% per year	98	33.1	483	27.7	935	16.9	669	18.1	25	36.8	125	23.2	3,228	25.6
25–49% per year	48	16.3	373	21.4	806	14.5	665	18.0	8	12.3	88	16.3	2,518	19.9
50–74% per year	41	13.9	413	23.7	1,395	25.2	914	24.8	17	24.6	148	27.4	3,470	27.5
≥ 75% per year	93	31.4	403	23.1	2,326	42.0	1,369	37.1	16	22.8	159	29.6	2,943	23.3
Subtotal	297	100.0	1,747	100.0	5,542	100.0	3,688	100.0	69	100.0	539	100.0	12,630	100.0

Note: Percentages are rounded and may not add up to 100.0 as displayed.

Table 9. RWHAP AIDS Education and Training Centers (AETC) trainees by year and primary employment setting, 2011–2016—United States and 3 territories

	July 2011–June 2012		July 2012–June 2013		July 2013–June 2014		July 2014–August 2015		September 2015–June 2016	
	No.	%	No.	%	No.	%	No.	%	No.	%
Rural vs. suburban/urban										
Rural	17,436	22.7	17,225	21.7	16,773	22.1	14,477	19.7	9,496	20.4
Suburban/urban	59,258	77.3	62,065	78.3	59,006	77.9	58,921	80.3	37,014	79.6
Subtotal	76,694	100.0	79,290	100.0	75,779	100.0	73,398	100.0	46,511	100.0
Faith-based organization										
Yes	5,254	6.9	4,711	6.1	4,269	5.8	4,143	5.8	2,759	6.1
No/do not know	70,991	93.1	73,062	93.9	69,668	94.2	67,798	94.2	42,322	93.9
Subtotal	76,245	100.0	77,773	100.0	73,937	100.0	71,941	100.0	45,081	100.0
Organizations that received Ryan White funding										
Yes	31,664	49.5	34,196	51.3	31,921	50.3	31,686	52.3	21,341	53.4
No	32,372	50.6	32,416	48.7	31,501	49.7	28,906	47.7	18,659	46.7
Subtotal	64,036	100.0	66,612	100.0	63,423	100.0	60,593	100.0	40,000	100.0

Notes: Percentages are rounded and may not add up to 100.0 as displayed.

When participants completed surveys that indicate multiple responses or provided different responses on different surveys (e.g., a participant reported two different primary employment settings), that participant's responses were divided up among the different categories. The data in the Number column are rounded to the nearest whole number; the Total row reflects the non-rounded figures.