

Ryan White HIV/AIDS Program AIDS Education and Training Center (AETC) Program

Annual Data Report

2021

Reporting Periods: July 2016–June 2021



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Data are presented for training events and event participants reported by RWHAP AETC Program grant recipients from July 2016 through June 2021.

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Health Resources and Services Administration

Carole Johnson..... Administrator

HIV/AIDS Bureau, Health Resources and Services Administration

Laura Cheever, MD, ScM..... Associate Administrator

Heather Hauck, MSW, LICSWDeputy Associate Administrator

Michael Kharfen.....Director, Division of Policy and Data

Tracy Matthews, MHA, RN..... Deputy Director, Division of Policy and Data

Jeannean Willis Marsh, DPM..... CAPT, USPHS; Director, Office of Program Support

Paul Belkin.....Executive Officer, Office of Operations and Management

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

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

Information about the RWHAP AETC National Resource Center: aidsetc.org

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COMMENTARY

The Health Resources and Services Administration's (HRSA) HIV/AIDS Bureau (HAB) administers the AIDS Education and Training Center (AETC) Program as a component of the Ryan White HIV/AIDS Treatment Extension Act of 2009 (Public Law 111-87 under Section 2692 of the Public Health Service Act 42 U.S.C. 300ff-111(a), known as the Ryan White HIV/AIDS Program (RWHAP)). RWHAP Part F supports eight regional AETCs and two national AETC centers [1]:

1. The *regional AETCs* train health care providers to counsel, diagnose, treat, and medically manage people with HIV and to help prevent HIV transmission.
2. The *National Coordinating Resource Center (NCRC)* serves as the coordinator and disseminator of the work of the eight regional AETCs. The NCRC supports the development, dissemination, and optimal utilization of the National HIV Curriculum (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 [2].
3. The *National Clinician Consultation Center (NCCC)* provides timely and appropriate responses to clinical questions related to HIV infection and other infectious diseases and comorbidities [3].

The regional AETCs work 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 frontline workforce.

Furthermore, the AETC Program uses Minority AIDS Initiative funds to increase the training capacity of the regional AETCs to expand the number of health care professionals with treatment expertise and knowledge about the most appropriate standards of HIV-related treatments and medical care for racial and ethnic minority adults, adolescents, and children with HIV.¹

The primary audiences for trainings conducted by the regional AETCs are novice and low-volume HIV treatment providers, allied health professionals, and health care support staff who treat people with HIV and those who are vulnerable to HIV acquisition. Trainings also are intended for prescribers (e.g., physicians, physician assistants, nurse practitioners) and other healthcare professionals (e.g., dentists, psychiatrists, pharmacists).

To strengthen the HIV workforce, the 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 providers across many practice settings, including health centers, mental health clinics, community-based organizations, and providers in private practice. Training events are conducted through different modalities and are 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. Each year, the regional AETCs report data to HRSA HAB about the training events and the participants who attended those events in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands.

Additionally, AETC Program recipients use Ending the HIV Epidemic in the U.S. (EHE) initiative funds to expand workforce capacity.

¹ The Ryan White HIV/AIDS Program Part F includes the Minority AIDS Initiative, which provides funding to evaluate and address the disproportionate impact of HIV on Blacks/African Americans and other minority populations.

REPORT CHANGES

This report updates the most recent RWHAP AETC Program Annual Data Report with one new year of data: July 2020 through June 2021. Overall, the data are presented for five reporting periods: July 2016 through June 2017, July 2017 through June 2018, July 2018 through June 2019, July 2019 through June 2020, and July 2020 through June 2021.

HIGHLIGHTS OF ANALYSES

Unless otherwise specified, the highlights presented are the **averages** across the 5-year period from July 2016 through June 2021. Readers are encouraged to review all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

Training Events

From July 2016 through June 2021, regional AETCs conducted a total of 50,026 training events, averaging 10,005 training events per year and reaching an average of 57,044 unique participants each year (range: 55,219–59,972; **Table 1**). Participant data are not available for July 2016 through June 2017 due to changes in reporting (see the Technical Notes section for details).

Training Topics, Content, and Modalities

Most Frequent Training Event Topics

The topics most frequently presented in RWHAP AETC training events from July 2016 through June 2017 were adult and adolescent antiretroviral treatment (35.3%) and pre/post-exposure prophylaxis (PrEP/PEP; 33.2%; **Table 2a**). Other frequently presented topics included comorbidities (31.7%), basic science/epidemiology (27.3%), and HIV routine laboratory tests (24.2%).

The specific topics most frequently presented in detail in RWHAP AETC training events from July 2017 through June 2021 were PrEP (27.7%); antiretroviral treatment adherence, including viral suppression (25.4%); HIV diagnosis (i.e., HIV testing; 24.5%); and linkage to care (24.5%; **Table 2b**). Other frequently presented topics included adult and adolescent antiretroviral treatment (24.3%), stigma or discrimination (21.3%), and cultural competence (21.2%).

The general training content most frequently covered overall by RWHAP AETC training events from July 2019 through June 2021 were HIV prevention (40.9%), antiretroviral treatment and adherence (31.8%), and management of comorbid conditions (30.6%). In response to the coronavirus disease 2019 (COVID-19) public health emergency that began in early 2020, COVID-19 was covered by 5.0% of RWHAP AETC training events during the time period (**Table 2b**).

Priority Populations

Training topics from July 2016 through June 2017 focused on many priority populations of people with HIV, including racial and ethnic minorities (30.0%); gay, lesbian, bisexual, transgender, or other gender identity populations (27.4%); women (23.3%); and adolescents (23.3%; **Table 2a**). Training topics from July 2017 through June 2021 similarly focused on gay, lesbian, bisexual, transgender, or other gender identity populations (25.0%); the Black/African American population (21.9%); young adults (ages 18–24 years; 21.0%); and women (20.3%; **Table 2b**).

Training Modalities

The training modalities or technologies used most frequently from July 2016 through June 2017 were lectures/workshops (31.0%), followed by role play/simulation (23.8%), and chart/case reviews (19.8%; **Table 2a**). The training modalities or technologies used most frequently from July 2017 through June 2021 were in-person or live distance-based coaching for organizational capacity

building (29.1%), in-person or live distance-based interactive presentations (21.2%), and in-person or distance-based (live or archived) didactic presentations (21.0%; **Table 2b**). In response to the COVID-19 public health emergency, the regional AETCs shifted to predominately virtual training modalities beginning in March 2020, as reflected in the decrease in the percentage of in-person training events and the increase in the percentage of distance-based training events from the July 2018 through June 2019 to the July 2020 through June 2021 reporting periods.

RWHAP AETC Program Training Participants

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

Race/Ethnicity and Gender

During the period July 2017 through June 2021, on average, about half (48.9%) of RWHAP AETC participants self-identified as White; however, this percentage has slowly decreased, from 50.8% in the July 2017 through June 2018 reporting year to 47.0% in the July 2020 through June 2021 reporting year. Meanwhile, the percentage of Black/African American participants increased slightly from 19.8% to 22.4%, and the percentage of Hispanic/Latino participants increased from 17.1% to 18.6% (**Table 3**).

Nearly three-quarters (74.0%) of RWHAP AETC participants were female, 24.0% were male, and less than 1% of participants were transgender (**Table 3**).

Profession

From July 2017 through June 2021, nurses and nurse practitioners accounted for 21.5% of RWHAP AETC participants, social workers accounted for 13.8%, and physicians accounted for 13.2%. In addition to profession, participants reported their primary functional roles within their organization. The most commonly reported roles were care provider/clinician (28.1%) and case manager (13.0%; **Table 3**).

From July 2020 through June 2021, nurses (including Nurse Practitioner/Nurse Professional [prescriber and non-prescriber]) accounted for the highest percentages of participants among White (24.3%), Native Hawaiian/Pacific Islander (22.1%), and American Indian/Alaskan Native [AI/AN (16.8%)] participants. Among Asian participants, the highest percentage of participants were physicians (27.6). Among Black/African American and Hispanic/Latino participants, the most commonly reported profession/discipline was social worker/case manager (22.6% and 19.4%, respectively). Among Native Hawaiian/Pacific Islander participants, 19.1% were social workers/case managers (**Table 4**).

From July 2020 through June 2021, the highest percentages of profession by gender were as follows: among males, 20.2% were physicians; among females, 22.6% were nurses (including Nurse Practitioner/Nurse Professional [prescriber and non-prescriber]); among transgender males, 27.3% were social workers/case managers, and 25.0% were community health workers; among transgender females, 42.1% were community health workers; and among participants who reported another gender identity, 25.8% were social workers/case managers (**Table 5**).

Service Delivery of RWHAP AETC Program Participants

Regional AETCs train and support clinicians and health care professionals who provide direct care and services to patients. During the period July 2017 through June 2021, nearly three-quarters (72.5%) provided direct clinical services, more than half (52.8%) provided HIV prevention counseling and testing services, and 20.2% prescribed PrEP (**Table 6**).

Service Delivery to People With HIV

Among RWHAP AETC participants who provide direct clinical services, an average of 63.2% of participants provided direct services to people with HIV during the period July 2017 through June 2021 (**Table 6**).

Slightly more than half of RWHAP AETC participants from July 2017 through June 2021 served patient populations composed of at least 50% racial/ethnic minorities of people with HIV (**Table 6**).

During the July 2020 through June 2021 reporting period, the number of years of experience providing direct care to people with HIV varied by the race/ethnicity of the participants. On average, 24.9% of participants across all races and ethnicities reported 1 year or less of experience serving people with HIV, ranging from 19.0% among AI/AN participants to 30.9% among participants of multiple races. Approximately 37.8% of White participants and 37.3% of Black/African American participants each reported 10 or more years of service to people with HIV (**Table 7**).

Employment Setting of RWHAP AETC Participants

The employment setting most frequently reported by RWHAP AETC participants from July 2020 through June 2021 was other community-based organization (12.7%), followed by HIV or infectious diseases clinic (12.4%), academic health center (11.3%), state or local health department (10.9%), and Federally Qualified Health Center (10.8%; **Table 8**).

From July 2017 through June 2021, 11.0% of the RWHAP AETC participants' employment setting was in a rural area (only or in combination with a suburban/urban area), and an average 42.7% of participants worked in an RWHAP-funded employment setting (**Table 8**).

TECHNICAL NOTES

RYAN WHITE HIV/AIDS PROGRAM AETC DATA

Each year, regional AETCs report data to HRSA HAB about the sponsored training events and the participants who attended those events in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands.

Information collected on training events via Event Record (ER) data forms include 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 participants in attendance, and the total number of Participant Information Forms (PIFs) collected from participants.

Information collected on participants via PIF data forms includes demographic information (e.g., profession, functional role, race/ethnicity, gender). In addition, information about participants' employment setting(s) is collected (e.g., if the setting is in a rural or suburban/urban area, if the setting receives RWHAP funding). Patient care information is also collected from participants [e.g., if they provide services directly to people with HIV; if so, how many years of experience they have providing such services; the average number of people with HIV they serve; percentage estimates of clients with HIV to whom they provide services that meet certain characteristics—for example, those who are racial/ethnic minorities or are receiving treatment with antiretroviral therapy (ART)].

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 through 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 participant data collection. Therefore, reliable participant information for that reporting period is not available.

Event Record and Participant Information Form Data

During the July 2016 through June 2017 reporting period, a new ER data collection form was implemented, which resulted in the concurrent use of old and new forms during the transition. Because the event categories differed across the two forms, categories from the new form were crosswalked to the most appropriate corresponding category in the earlier ER form for the July 2016 through June 2017 event data presented in this report (**Table 2a**).

During the July 2019 through June 2020 reporting period, the EHE initiative [4] began and included funding for expanding workforce capacity through the regional AETCs. In the ER data collection form, a new funding source was added to reflect the use of EHE funds for training events (**Table 2b**). Training content and topics related to EHE appear throughout the current training content/topic variables; there is not a separate variable for EHE training content/topics. Additionally, during this reporting period, the COVID-19 pandemic emerged and HAB funded regional AETCs through the fiscal year (FY) 2020 Coronavirus Aid, Relief, and Economic Security (CARES) Act to provide training to providers on the management and prevention of COVID-19 for people with HIV. To capture these activities, a new COVID-19 training content item and a new funding source, RWHAP FY 2020 CARES Act, were added to the ER (**Table 2b**).

Similar to the ER form changes during the July 2016 through June 2017 reporting period, PIF changes were also implemented in the reporting period; however, the new participant data categories could not be crosswalked to the previous variables. Therefore, participant data are not available for the July 2016 through June 2017 reporting period.

Multiyear Report Tables

Tables displaying 5 years of data have been modified to accommodate the changes in the ER and PIF (**Tables 1, 3, 6, and 8**). Tables displaying participant data over a 5-year period do not show data for July 2016 through June 2017. Categories are combined where the definitions between forms match one another exactly over the 5-year period displayed. Dashes denote that a category did not apply for that period (**Tables 2b, 3, 6, and 8**).

Table 2: Training events, by year and training topic, other support, collaborating organization, and training modality: Data are separated into an “a” and “b” table according to the categories in each form. **Table 2a** displays data for one reporting period: July 2016 through June 2017 (crosswalked data). **Table 2b** displays data for four reporting periods: July 2017 through June 2018, July 2018 through June 2019, July 2019 through June 2020, and July 2020 through June 2021.

Data for the July 2016 through June 2017 reporting period present the combined category PrEP/PEP. Data beginning with the July 2017 through June 2018 period present the PrEP and PEP categories separately.

Data beginning with the July 2019 through June 2020 reporting period include the section “Training Content,” which includes such categories as antiretroviral treatment and adherence, engagement and retention in HIV care, HIV prevention, HIV testing and diagnosis, linkage/referral to HIV care, management of comorbid conditions, and COVID-19. Training topics within the HIV prevention category include a new item based on NIH National Institute of Allergy and Infectious Diseases prevention guidance: *Undetectable=Untransmittable (U=U)/treatment as prevention* [5].

Table 3: Program participants, by year and selected characteristics: Beginning with July 2019 through June 2020 data, the gender categories have been updated to include male (i.e., cisgender [non-transgender] male), female (i.e., cisgender female), transgender male (i.e., a person who was assigned female sex at birth, but whose gender identity is male), transgender female (i.e., a person who was assigned male sex at birth, but whose gender identify is female), and other gender identity (i.e., a person whose gender identity does not fit within the binary division of female/male or transgender male/transgender female). The professional discipline categories Nurse/Advanced Practice Nurse (non-prescriber) and Nurse Practitioner were removed, and the categories Nurse Practitioner/Nurse Professional (prescriber) and Nurse Professional (non-prescriber) were added.

Table 5: Program participants, by gender and profession/discipline: Beginning with the July 2019 through June 2020 data, the gender and professional discipline categories have been updated as described for Table 3, above.

Table 6: Program participants, by service delivery and client characteristics: Data categories are presented for the years in which they were included on the PIF. Because of form changes, PIF data are not available for the July 2016 through June 2017 reporting period. Data beginning with the July 2019 through June 2020 reporting period include a new antiretroviral therapy (ART) prescription variable.

Table 8: Program participants, by year and employment setting: Data categories are presented for the years in which they were included on the PIF. Geographic work setting(s) changed with the updated PIF. Beginning with the July 2017 through June 2018 reporting period, participants reported up to five ZIP codes for their work setting(s). Data presented for this and subsequent reporting periods use rural/urban classifications of ZIP codes reported by participants, according to the HRSA Federal Office of Rural Health Policy’s rural-urban commuting area (RUCA) [6] designation and identify participants who work only in rural settings, in both rural and suburban/urban settings, or only in suburban/urban settings. Data beginning with the July 2019 through June 2020 reporting period include a new employment setting category: *Employment setting does not involve the provision of care or services to patients/clients*.

REFERENCES

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4. HIV.gov. About Ending the HIV Epidemic in the U.S.: Overview. Available at <https://www.hiv.gov/federal-response/ending-the-hiv-epidemic/overview>.
5. NIH National Institute of Allergy and Infectious Diseases. HIV Undetectable=Untransmittable (U=U), or Treatment as Prevention. Available at <https://www.niaid.nih.gov/diseases-conditions/treatment-prevention>.
6. United States Department of Agriculture. Rural-Urban Commuting Area Codes. Available at <https://www.ers.usda.gov/data-products/rural-urban-commuting-area-codes/documentation>.

ADDITIONAL RESOURCES

Centers for Disease Control and Prevention, HIV prevention resources: cdc.gov/hiv

Health Resources and Services Administration, HIV/AIDS programs: ryanwhite.hrsa.gov

HIV.gov, the nation's source for timely and relevant federal HIV policies, programs, and resources: [HIV.gov](https://www.hiv.gov)

HRSA HIV/AIDS Bureau AETC Awards: ryanwhite.hrsa.gov/about/parts-and-initiatives/part-f-aetc/fy-2021-program-awards

RWHAP Compass Dashboard, a user-friendly, interactive data tool to visualize the reach, impact, and outcomes of the RWHAP: ryanwhite.hrsa.gov/data/dashboard

TargetHIV, tools for the Ryan White HIV/AIDS Program Community: targethiv.org

Table 1. RWHAP AIDS Education and Training Center (AETC) Program training events and participants by year, July 2016–June 2021—United States and 3 territories

Year	Events (N)	Participants (N) ^a
July 2016–June 2017	9,892	—
July 2017–June 2018	10,505	55,219
July 2018–June 2019	9,784	56,124
July 2019–June 2020	8,370	56,862
July 2020–June 2021	11,475	59,972

^a Participant data unavailable for July 2016–June 2017.

Table 2a. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2016–June 2017—United States and 3 territories

Training topic	July 2016–June 2017	
	N	% of training events
Most frequently presented training topics		
Adult and adolescent antiretroviral treatment	3,226	35.3
Basic science/epidemiology	2,493	27.3
Clinical manifestations of HIV disease	2,132	23.3
Comorbidities	2,894	31.7
Hepatitis A, B, C	2,076	22.7
HIV routine laboratory tests	2,215	24.2
Medication adherence	697	7.6
Non-antiretroviral treatment	338	3.7
Nutrition	417	4.6
Opportunistic infections	1,493	16.3
Oral health	485	5.3
Pediatric HIV management/perinatal transmission	763	8.3
Pre/post-exposure prophylaxis (occupational and non-occupational)	3,032	33.2
Reproductive health	675	7.4
Resistance/genotype–phenotype interpretation	406	4.4
Routine primary care screenings	494	5.4
Health care organization and delivery issues		
Agency needs assessment	750	8.2
Community linkages	2,383	26.1
Cultural competence	2,108	23.1
Education development/delivery	465	5.1
Grant issues	101	1.1
Health literacy	1,205	13.2
Health organization and finances	141	1.5
Healthcare development/clinical service coordination	462	5.1
HIPAA/confidentiality	892	9.8
Quality improvement	1,710	18.7
Resource allocation	678	7.4
Risk assessment	2,349	25.7
Risk reduction/harm reduction	1,729	18.9
Routine HIV testing	1,633	17.9
Technology	656	7.2
Psychosocial issues		
Mental health	1,480	16.2
Substance abuse	1,337	14.6
Priority populations		
Children (Ages 0–12 years)	416	4.6
Adolescent (Ages 13–24 years)	2,126	23.3
People over 50 years of age	1,934	21.2
Racial or ethnic minorities	2,741	30.0
Women	2,133	23.3
Gay, lesbian, bisexual, transgender, or other gender identity	2,507	27.4
Homeless or unstably housed	1,244	13.6
Immigrant/border populations	796	8.7
Incarcerated individuals	727	8.0
Rural populations	1,340	14.7
Other populations	337	3.7
Number of events	9,141	—

Table 2a. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2016–June 2017—United States and 3 territories (cont.)

	July 2016–June 2017	
	N	% of training events
Other support		
Most frequent additional funding sources		
American Indian/Alaska Native Initiative	11	0.2
Border Health Initiative	9	0.2
Minority AIDS Initiative (MAI)	2,652	59.3
None of the above	1,798	40.2
Number of events	4,470	—
Collaborating organization		
None	6,711	67.8
Other AETCs		
Delta	0	0.0
Florida/Caribbean	4	0.1
Midwest	4	0.1
Mountain Plains	2	<0.1
New England	17	0.4
New York/New Jersey	4	0.1
Northwest	0	0.0
Pacific	1	<0.1
Pennsylvania/Mid-Atlantic	2	<0.1
Southeast	2	<0.1
Texas/Oklahoma	5	0.1
National Clinician Consultation Center (NCCC)	0	0.0
National Coordinating Resource Center (NCRC)	2	<0.1
Other training centers		
Addiction Technology Transfer Center (ATTC)	123	2.6
Area Health Education Center (AHEC)	12	0.3
Prevention Training Center (PTC)	40	0.8
Regional Training Center (RTC)	64	1.4
Tuberculosis Training Center	1	<0.1
Other agencies		
Agency funded by the Ryan White HIV/AIDS Program	3,097	65.5
AIDS community-based organization	1,434	30.3
College/university/health professions school	486	10.3
Community health center	843	17.8
Correctional institution	995	21.0
Faith-based organization	95	2.0
Faith-based organization	28	0.6
Historically black college or university/Hispanic serving institution/tribal college or university	179	3.8
Hospital/hospital-based clinic	775	16.4
Tribal health organization	141	3.0
Number of events (all collaborating organizations)	4,730	—
Training modality		
Training modalities or technologies applied in the event		
Chart/case review	553	19.8
Clinical preceptorship/mini-residency	353	12.7
Computer-based	500	17.9
Conference call/telephone	439	15.7
Lecture/workshop	866	31.0
Role play/simulation	665	23.8
Self-study	100	3.6
Telemedicine	41	1.5
Webcast/webinar	129	4.6
Number of events	2,790	—

Abbreviations: ART, antiretroviral therapy; HIPAA, Health Insurance Portability and Accountability Act.

Note: Training topic, other support, collaborating organization, and training modality categories are not mutually exclusive. Subtotals for each represent the number of unique events and serve as the denominators for percentage calculations.

Table 2b. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2017–June 2021—United States and 3 territories

	July 2017–June 2018		July 2018–June 2019		July 2019–June 2020		July 2020–June 2021	
	N	%	N	%	N	%	N	%
Training content								
Antiretroviral treatment and adherence	—	—	—	—	2,661	31.8	3,587	31.7
Engagement and retention in HIV care	—	—	—	—	2,410	28.8	3,285	29.1
HIV prevention	—	—	—	—	3,224	38.6	4,887	43.2
HIV testing and diagnosis	—	—	—	—	2,013	24.1	3,000	26.5
Linkage/referral to HIV care	—	—	—	—	1,917	22.9	2,994	26.5
Management of co-morbid conditions	—	—	—	—	2,573	30.8	3,445	30.5
Coronavirus disease 2019	—	—	—	—	188	2.2	869	7.7
Other	—	—	—	—	1,996	23.9	3,904	34.5
Training topic								
HIV prevention								
Behavioral prevention	1,938	18.5	1,932	19.8	1,281	15.3	1,759	15.6
Harm reduction/safe injection	1,260	12.0	1,153	11.8	687	8.2	794	7.0
HIV transmission risk assessment	2,443	23.3	2,190	22.4	1,353	16.2	1,488	13.2
Postexposure prophylaxis (PEP, occupational and nonoccupational)	1,545	14.7	1,501	15.4	1,093	13.1	1,034	9.1
Pre-exposure prophylaxis (PrEP)	2,979	28.4	2,761	28.3	2,525	30.2	2,703	23.9
Prevention of perinatal or mother-to-child transmission	812	7.7	675	6.9	492	5.9	464	4.1
Other biomedical prevention	516	4.9	384	3.9	345	4.1	437	3.9
U=U/Treatment as prevention	—	—	—	—	1,009	12.1	1,103	9.8
HIV background and management								
Acute HIV	1,416	13.5	1,174	12.0	739	8.8	666	5.9
Adult and adolescent antiretroviral treatment	2,837	27.1	2,890	29.6	1,804	21.6	2,131	18.9
Aging and HIV	1,055	10.1	948	9.7	546	6.5	509	4.5
Antiretroviral treatment adherence, including viral load suppression	3,078	29.4	2,889	29.6	1,895	22.7	2,245	19.9
Basic science	2,068	19.7	1,811	18.6	897	10.7	1,087	9.6
Clinical manifestations of HIV disease	1,986	18.9	1,893	19.4	1,112	13.3	1,094	9.7
HIV diagnosis (i.e., HIV testing)	2,945	28.1	2,715	27.8	1,812	21.7	2,299	20.3
HIV epidemiology	1,927	18.4	1,698	17.4	1,048	12.5	1,150	10.2
HIV monitoring and laboratory tests (i.e., CD4 and viral load)	2,475	23.6	2,252	23.1	1,535	18.4	1,972	17.4
HIV resistance testing and interpretation	1,572	15.0	1,395	14.3	882	10.5	946	8.4
Linkage to care	2,819	26.9	2,570	26.3	1,788	21.4	2,636	23.3
Pediatric HIV management	277	2.6	194	2.0	156	1.9	96	0.8
Retention and/or re-engagement in care	2,204	21.0	1,944	19.9	1,565	18.7	2,259	20.0
Other HIV background and management	—	—	—	—	196	2.3	560	5.0
Primary care and co-morbidities								
Cervical cancer screening, including HPV	370	3.5	299	3.1	174	2.1	174	1.5
Hepatitis B	858	8.2	759	7.8	537	6.4	587	5.2
Hepatitis C	1,914	18.3	1,718	17.6	1,091	13.0	1,373	12.1
Immunization	666	6.4	708	7.3	392	4.7	505	4.5
Influenza	265	2.5	269	2.8	198	2.4	165	1.5
Malignancies	448	4.3	357	3.7	178	2.1	208	1.8
Medication-assisted therapy for substance use disorders	459	4.4	518	5.3	404	4.8	446	3.9
Mental health disorders	1,352	12.9	1,241	12.7	856	10.2	1,117	9.9
Non-infection comorbidities of HIV or viral hepatitis	1,298	12.4	1,101	11.3	636	7.6	577	5.1
Nutrition	441	4.2	307	3.1	181	2.2	197	1.7
Opioid use disorder	—	—	—	—	428	5.1	585	5.2
Opportunistic infections	1,434	13.7	1,207	12.4	714	8.5	789	7.0
Oral health	444	4.2	327	3.4	281	3.4	297	2.6
Osteoporosis	208	2.0	195	2.0	130	1.6	106	0.9
Pain management	244	2.3	309	3.2	187	2.2	166	1.5
Palliative care	97	0.9	99	1.0	90	1.1	68	0.6
Primary care screenings	1,579	15.1	1,364	14.0	816	9.8	1,034	9.1
Reproductive health, including preconception planning	757	7.2	591	6.1	417	5.0	446	3.9

Table 2b. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2017–June 2021—United States and 3 territories (cont.)

	July 2017–June 2018		July 2018–June 2019		July 2019–June 2020		July 2020–June 2021	
	N	%	N	%	N	%	N	%
Primary care and co-morbidities (cont.)								
Sexually transmitted infections	2,134	20.4	2,113	21.6	1,439	17.2	1,682	14.9
Substance use disorders	1,508	14.4	1,488	15.2	—	—	—	—
Substance use disorders, not including opioid use	—	—	—	—	956	11.4	1,027	9.1
Tobacco cessation	470	4.5	331	3.4	170	2.0	178	1.6
Tuberculosis	322	3.1	259	2.7	183	2.2	190	1.7
Other	—	—	—	—	573	6.9	1,684	14.9
Issues related to care of people with HIV								
Cultural competence	2,790	26.6	2,091	21.4	1,526	18.2	2,099	18.6
Health literacy	1,742	16.6	1,308	13.4	676	8.1	1,244	11.0
Low English proficiency	391	3.7	276	2.8	301	3.6	316	2.8
Motivational interviewing	1,328	12.7	923	9.5	684	8.2	845	7.5
Stigma or discrimination	2,360	22.5	2,210	22.6	1,615	19.3	2,349	20.8
Education								
Adult learning principles	963	9.2	880	9.0	—	—	—	—
Best practices in training	1,870	17.8	1,389	14.2	—	—	—	—
Curriculum development	924	8.8	910	9.3	—	—	—	—
Use of technology for education	1,068	10.2	367	3.8	—	—	—	—
Health care organization or systems issues								
Billing for services and payment models	724	6.9	417	4.3	330	3.9	371	3.3
Case management	1,453	13.9	1,236	12.7	982	11.7	1,065	9.4
Community linkages	2,199	21.0	1,758	18.0	1,215	14.5	1,527	13.5
Confidentiality/HIPAA	871	8.3	632	6.5	415	5.0	392	3.5
Coordination of care	2,338	22.3	1,930	19.8	1,640	19.6	2,030	18.0
Funding or resource allocation	689	6.6	441	4.5	345	4.1	455	4.0
Health insurance coverage	862	8.2	696	7.1	461	5.5	520	4.6
Legal issues	466	4.4	378	3.9	273	3.3	283	2.5
Organizational infrastructure	1,629	15.5	652	6.7	866	10.4	1,024	9.1
Organizational needs assessment	1,246	11.9	448	4.6	504	6.0	720	6.4
Patient-centered medical home	677	6.5	323	3.3	202	2.4	249	2.2
Practice transformation	1,510	14.4	767	7.9	813	9.7	1,316	11.6
Quality improvement	2,244	21.4	1,278	13.1	1,098	13.1	1,717	15.2
Team-based care	1,288	12.3	1,051	10.8	671	8.0	958	8.5
Telehealth	—	—	—	—	271	3.2	669	5.9
Use of technology for patient care	748	7.1	486	5.0	435	5.2	499	4.4
Priority populations								
Children (Ages 0–12)	406	3.9	337	3.5	272	3.3	489	4.3
Adolescents (Ages 13–17)	1,082	10.3	917	9.4	741	8.9	1,210	10.7
Young adults (Ages 18–24)	2,159	20.6	1,923	19.7	1,670	20.0	2,692	23.8
Older adults (Ages 50 and over)	1,958	18.7	1,793	18.4	1,381	16.5	2,390	21.1
American Indian or Alaska Native	525	5.0	465	4.8	322	3.9	638	5.6
Asian	353	3.4	301	3.1	323	3.9	674	6.0
Black or African American	2,109	20.1	2,005	20.5	1,676	20.0	3,028	26.8
Hispanic or Latino	1,527	14.6	1,447	14.8	1,245	14.9	2,305	20.4
Native Hawaiian or Pacific Islander	280	2.7	242	2.5	221	2.6	445	3.9
Other race/ethnicity	451	4.3	255	2.6	106	1.3	132	1.2
Women	2,036	19.4	1,961	20.1	1,586	19.0	2,577	22.8
Gay, lesbian, bisexual, transgender, or other gender identity	2,654	25.3	2,422	24.8	2,000	23.9	2,956	26.1
Homeless or unstably housed	1,297	12.4	1,160	11.9	1,242	14.9	1,772	15.7

Table 2b. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2017–June 2021—United States and 3 territories (cont.)

	July 2017–June 2018		July 2018–June 2019		July 2019–June 2020		July 2020–June 2021	
	N	%	N	%	N	%	N	%
Priority populations (cont.)								
Immigrant populations	867	8.3	631	6.5	666	8.0	1,285	11.4
Incarcerated or recently released	779	7.4	749	7.7	736	8.8	1,298	11.5
Other specific populations	272	2.6	233	2.4	177	2.1	251	2.2
Rural populations	1,122	10.7	1,216	12.5	1,076	12.9	1,608	14.2
U.S.–Mexico border population	395	3.8	325	3.3	207	2.5	336	3.0
Number of events	10,482	—	9,761	—	8,362	—	11,305	—
Other support								
Funding sources used								
Centers for Disease Control and Prevention	345	3.3	280	2.9	209	2.5	83	0.7
Core Training and Technical Assistance	6,321	60.3	6,045	61.8	4,992	59.6	6,090	53.7
Interprofessional education	590	5.6	494	5.1	274	3.3	456	4.0
Minority AIDS Initiative (MAI)	3,421	32.6	3,264	33.4	4,112	49.1	3,937	34.7
Practice transformation	1,857	17.7	965	9.9	1,064	12.7	1,622	14.3
Coronavirus Aid, Relief, and Economic Security (CARES) Act	—	—	—	—	165	2.0	518	4.6
Ending the HIV Epidemic in the U.S. (EHE) initiative	—	—	—	—	67	0.8	335	3.0
Unspecified AETC	—	—	—	—	513	6.1	96	0.8
Total number of events	10,487	—	9,778	—	8,370	—	11,351	—
Collaborating organization								
Other AETC collaborators								
Frontier AETC	236	7.0	223	7.0	70	2.5	37	1.0
MidAtlantic AETC	29	0.9	1	<0.1	—	—	—	—
Midwest AETC	1	<0.1	13	0.4	0	0.0	0	0.0
Mountain West AETC	17	0.5	33	1.0	6	0.2	15	0.4
New England AETC	—	—	—	—	0	0.0	2	0.1
Northeast Caribbean AETC	27	0.8	43	1.4	0	0.0	3	0.1
Pacific AETC	12	0.4	3	0.1	16	0.6	4	0.1
South Central AETC	14	0.4	16	0.5	2	0.1	2	0.1
Southeast AETC	88	2.6	103	3.2	8	0.3	0	0.0
AETC National Clinicians' Consultation Center	38	1.1	27	0.8	11	0.4	14	0.4
AETC National Coordinating Resource Center	11	0.3	6	0.2	11	0.4	0	0.0
AETC National Evaluation Center	23	0.7	17	0.5	54	1.9	8	0.2
Duke NP program	0	0.0	7	0.2	—	—	—	—
Johns Hopkins NP program	1	<0.1	2	0.1	—	—	—	—
Rutgers NP program	0	0.0	1	<0.1	—	—	—	—
SUNY PA program	4	0.1	2	0.1	—	—	—	—
UCSF NP program	0	0.0	0	0.0	—	—	—	—
Same region but different local partner	1	<0.1	0	0.0	—	—	—	—
Other federally funded training center collaborators	31	0.9	42	1.3	—	—	—	—
Addiction Technology Transfer Center (ATTC)	175	5.2	198	6.2	145	5.1	232	6.5
Area Health Education Center (AHEC)	44	1.3	76	2.4	18	0.6	91	2.5
Capacity Building Assistance (CBA) Provider	39	1.2	49	1.5	29	1.0	224	6.2
Family Planning National Training Center	66	2.0	61	1.9	14	0.5	33	0.9
Mental Health Technology Transfer Centers (MHTTC)	0	0.0	1	<0.1	12	0.4	4	0.1
Public Health Training Center (PHTC)	—	—	—	—	3	0.1	6	0.2
STD Clinical Prevention Training Center (PTC)	4	0.1	30	0.9	16	0.6	15	0.4
TB Regional Training and Medical Consultation Center	100	3.0	99	3.1	108	3.8	86	2.4
Viral Hepatitis Education and Training Project	62	1.9	13	0.4	7	0.2	6	0.2
	1	<0.1	2	0.1	0	0.0	0	0.0

Table 2b. RWHAP AIDS Education and Training Center (AETC) Program training events by year and training topic, other support, collaborating organization, and training modality, July 2017–June 2021—United States and 3 territories (cont.)

	July 2017–June 2018		July 2018–June 2019		July 2019–June 2020		July 2020–June 2021	
	N	%	N	%	N	%	N	%
Other organization collaborators	3,137	93.6	2,942	92.4	2,718	96.5	3,481	96.9
AIDS services organization	408	12.2	358	11.2	421	15.0	697	19.4
Community health center, including Federally Qualified Health Center funded by HRSA	901	26.9	764	24.0	667	23.7	1,016	28.3
Correctional institution	94	2.8	62	1.9	79	2.8	98	2.7
Faith-based organization	30	0.9	38	1.2	25	0.9	58	1.6
Health professions school	651	19.4	870	27.3	743	26.4	1,185	33.0
Hispanic-serving institution	177	5.3	214	6.7	47	1.7	72	2.0
Historically Black College or University	73	2.2	134	4.2	171	6.1	100	2.8
Hospital or hospital-based clinic	685	20.4	602	18.9	707	25.1	870	24.2
Other	382	11.4	261	8.2	342	12.1	460	12.8
Other community-based organization	287	8.6	308	9.7	277	9.8	480	13.4
Ryan White HIV/AIDS Program-funded organization, including subrecipients	1,250	37.3	1,233	38.7	773	27.5	1,122	31.2
Tribal college or university	39	1.2	12	0.4	79	2.8	27	0.8
Tribal health organization	76	2.3	39	1.2	23	0.8	54	1.5
Number of events (all collaborative organizations)	3,351	—	3,185	—	2,816	—	3,592	—
Training modality								
Training modalities or technologies applied in the event								
Didactic presentations, in-person	1,271	12.2	1,324	13.6	1,012	12.1	133	1.2
Didactic presentations, distance-based (live)	241	2.3	282	2.9	561	6.7	1,711	15.1
Didactic presentations, distance-based (archived)	295	2.8	334	3.4	338	4.0	843	7.4
Interactive presentations, in-person	2,334	22.3	2,200	22.6	1,181	14.1	222	2.0
Interactive presentations, distance-based (live)	160	1.5	199	2.0	438	5.2	1,705	15.1
Communities of practice, in-person	713	6.8	1,065	10.9	658	7.9	129	1.1
Communities of practice, distance-based (live)	808	7.7	378	3.9	693	8.3	1,585	14.0
Self-study, distance-based (archived)	229	2.2	124	1.3	—	—	—	—
Clinical preceptorships, in-person	1,295	12.4	1,359	13.9	715	8.6	714	6.3
Clinical preceptorships, distance-based (live)	15	0.1	6	0.1	154	1.8	210	1.9
Clinical consultation, in-person	524	5.0	674	6.9	428	5.1	223	2.0
Clinical consultation, distance-based (live)	617	5.9	534	5.5	585	7.0	886	7.8
Coaching for organizational capacity building, in-person	1,982	19.0	1,548	15.9	1,122	13.4	293	2.6
Coaching for organizational capacity building, distance-based (live)	1,176	11.3	803	8.2	1,330	15.9	3,418	30.2
Number of events	10,448	—	9,754	—	8,349	—	11,321	—

Abbreviations: ART, antiretroviral therapy; HIPAA, Health Insurance Portability and Accountability Act; HPV, human papillomavirus; NP, nurse practitioner; PA, physician assistant; STD, sexually transmitted disease; SUNY, State University of New York; TB, tuberculosis; U=U, "undetectable=untransmittable"; UCSF, University of California, San Francisco.

Note: Training topic, other support, collaborating organization, and training modality categories are not mutually exclusive. Subtotals for each represent the number of unique events and serve as the denominators for percentage calculations.

Table 3. RWHAP AIDS Education and Training Center (AETC) Program participants by year and selected characteristics, July 2016–June 2021—United States and 3 territories

	July 2016– June 2017		July 2017– June 2018		July 2018– June 2019		July 2019– June 2020		July 2020– June 2021	
	N	%	N	%	N	%	N	%	N	%
Race/ethnicity										
American Indian/Alaska Native	—	—	858	1.7	785	1.5	348	0.7	389	0.8
Asian	—	—	3,581	7.1	3,737	7.3	3,516	7.2	3,638	7.1
Black/African American	—	—	10,001	19.8	10,663	20.9	10,717	22.0	11,526	22.4
Hispanic/Latino ^a	—	—	8,663	17.1	8,818	17.3	8,726	17.9	9,591	18.6
Native Hawaiian/Pacific Islander	—	—	171	0.3	153	0.3	261	0.5	207	0.4
White	—	—	25,708	50.8	25,271	49.5	23,505	48.2	24,207	47.0
Multiple races	—	—	1,616	3.2	1,652	3.2	1,679	3.4	1,907	3.7
Subtotal	—	—	50,598	100.0	51,079	100.0	48,752	100.0	51,465	100.0
Gender										
Male	—	—	12,251	24.6	11,961	23.9	12,012	24.7	13,106	24.0
Female	—	—	37,299	74.8	37,655	75.4	35,923	73.7	40,363	74.0
Transgender	—	—	322	0.6	335	0.7	—	—	—	—
Transgender male	—	—	—	—	—	—	129	0.3	179	0.3
Transgender female	—	—	—	—	—	—	187	0.4	206	0.4
Other gender identity	—	—	—	—	—	—	476	1.0	660	1.2
Subtotal	—	—	49,872	100.0	49,951	100.0	48,727	100.0	54,514	100.0
Professional discipline										
Clergy/faith-based professional	—	—	105	0.2	127	0.2	100	0.2	85	0.2
Community health worker	—	—	2,896	5.5	3,420	6.4	3,287	6.4	4,024	7.2
Dentist	—	—	1,601	3.0	1,983	3.7	1,843	3.6	2,078	3.7
Dietitian/nutritionist	—	—	170	0.3	183	0.3	184	0.4	217	0.4
Mental/behavioral health professional	—	—	1,809	3.4	1,912	3.6	1,869	3.7	2,029	3.6
Midwife	—	—	152	0.3	90	0.2	104	0.2	82	0.1
Nurse/advanced practice nurse (non-prescriber)	—	—	9,335	17.6	8,813	16.5	—	—	—	—
Nurse practitioner	—	—	3,142	5.9	3,059	5.7	—	—	—	—
Nurse practitioner/nurse professional (prescriber)	—	—	—	—	—	—	3,190	6.3	3,166	5.6
Nurse professional (non-prescriber)	—	—	—	—	—	—	7,743	15.2	7,309	13.0
Other allied health professional	—	—	3,156	5.9	3,214	6.0	1,971	3.9	1,578	2.8
Other dental professional	—	—	1,481	2.8	1,171	2.2	1,180	2.3	1,022	1.8
Other non-clinical professional	—	—	4,295	8.1	4,383	8.2	4,327	8.5	5,846	10.4
Other public health professional	—	—	4,379	8.2	5,101	9.5	5,858	11.5	7,193	12.8
Pharmacist	—	—	3,290	6.2	3,279	6.1	3,112	6.1	3,274	5.8
Physician	—	—	7,861	14.8	7,416	13.9	6,779	13.3	5,986	10.7
Physician assistant	—	—	1,322	2.5	1,525	2.9	1,311	2.6	1,370	2.4
Practice administrator or leader	—	—	878	1.7	798	1.5	756	1.5	889	1.6
Social worker	—	—	6,514	12.3	7,107	13.3	7,011	13.7	8,865	15.8
Substance abuse professional	—	—	957	1.8	1,051	2.0	918	1.8	1,137	2.0
Subtotal	—	—	53,117	100.0	53,420	100.0	50,996	100.0	56,150	100.0
Role in their organization										
Administrator	—	—	4,537	8.7	4,366	8.2	4,599	9.9	5,786	10.6
Agency board member	—	—	85	0.2	105	0.2	76	0.2	105	0.2
Care provider/clinician—can or does prescribe HIV treatment	—	—	6,349	12.1	6,082	11.4	4,977	10.7	5,306	9.7
Care provider/clinician—cannot or does not prescribe HIV treatment	—	—	10,185	19.4	9,802	18.4	7,650	16.4	7,842	14.3
Case manager	—	—	6,136	11.7	6,795	12.8	6,038	12.9	7,919	14.4
Client/patient educator (includes navigator)	—	—	2,154	4.1	2,567	4.8	2,248	4.8	2,851	5.2
Clinical/medical assistant	—	—	2,030	3.9	1,977	3.7	1,510	3.2	1,556	2.8
Health care organization non-clinical staff	—	—	1,150	2.2	1,339	2.5	1,303	2.8	1,875	3.4
HIV tester	—	—	1,466	2.8	1,836	3.4	1,491	3.2	1,892	3.5
Intern/resident	—	—	1,596	3.0	1,952	3.7	1,746	3.7	1,469	2.7
Other	—	—	8,921	17.0	8,423	15.8	6,986	15.0	9,395	17.1
Researcher/evaluator	—	—	1,099	2.1	1,370	2.6	1,530	3.3	1,575	2.9
Student/graduate student	—	—	5,559	10.6	7,122	13.4	5,617	12.0	5,727	10.4
Teacher/faculty	—	—	1,593	3.0	1,650	3.1	1,474	3.2	1,506	2.7
Subtotal	—	—	52,433	100.0	53,271	100.0	46,627	100.0	54,804	100.0

Notes: Participant data unavailable for July 2016–June 2017.

Participants reporting for July 2017–June 2018, July 2018–June 2019, July 2019–June 2020, and July 2020–June 2021 selected all profession/disciplines and primary functional roles that apply. Data for these years are not mutually exclusive; numbers may not sum to the subtotal and percentages may not sum to 100.0%.

^a Hispanics/Latinos can be of any race.

Table 4. RWHAP AIDS Education and Training Center (AETC) Program participants by race/ethnicity and profession/discipline, July 2020–June 2021—United States and 3 territories

Profession/discipline	American Indian/ Alaska Native		Asian		Black/ African American		Hispanic/Latino ^a		Native Hawaiian/ Pacific Islander		White		Multiple races	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Clergy/faith-based professional	1	0.3	0	0.0	51	0.4	7	0.1	0	0.0	16	0.1	5	0.3
Community health worker	58	15.0	72	2.1	1,397	12.2	1,113	12.0	20	9.8	960	4.0	228	12.2
Dentist	8	2.1	427	12.4	159	1.4	345	3.7	5	2.5	773	3.2	57	3.0
Dietitian/nutritionist	0	0.0	10	0.3	14	0.1	32	0.3	0	0.0	140	0.6	4	0.2
Mental/behavioral health professional	13	3.4	55	1.6	473	4.1	387	4.2	2	1.0	894	3.8	101	5.4
Midwife	0	0.0	2	0.1	11	0.1	4	<0.1	0	0.0	58	0.2	1	0.1
Nurse practitioner/nurse professional (prescriber)	16	4.1	181	5.3	579	5.1	240	2.6	10	4.9	1,775	7.4	73	3.9
Nurse professional (non-prescriber)	49	12.7	287	8.3	1,099	9.6	828	8.9	35	17.2	4,028	16.9	194	10.4
Other allied health professional	12	3.1	61	1.8	305	2.7	354	3.8	9	4.4	566	2.4	51	2.7
Other dental professional	4	1.0	87	2.5	102	0.9	253	2.7	7	3.4	460	1.9	25	1.3
Other non-clinical professional	43	11.1	195	5.7	1,117	9.8	1,010	10.8	15	7.4	1,992	8.4	162	8.7
Other public health professional	63	16.3	334	9.7	1,972	17.3	1,326	14.2	28	13.7	2,657	11.1	268	14.3
Pharmacist	19	4.9	449	13.0	410	3.6	415	4.5	1	0.5	1,504	6.3	93	5.0
Physician	15	3.9	951	27.6	544	4.8	724	7.8	20	9.8	2,963	12.4	158	8.4
Physician assistant	7	1.8	131	3.8	102	0.9	115	1.2	5	2.5	812	3.4	49	2.6
Practice administrator or leader	14	3.6	27	0.8	170	1.5	155	1.7	6	2.9	412	1.7	33	1.8
Social worker/case manager	49	12.7	164	4.8	2,578	22.6	1,804	19.4	39	19.1	3,345	14.0	326	17.4
Substance abuse professional	15	3.9	11	0.3	341	3.0	197	2.1	2	1.0	480	2.0	43	2.3
Total	386	—	3,444	—	11,424	—	9,309	—	204	—	23,835	—	1,871	—

Notes: Data shown for each profession/discipline are not mutually exclusive; participants may have reported multiple professions/disciplines.

Subtotals represent the number of unique participants within each race/ethnicity that reported at least one profession/discipline.

^a Hispanics/Latinos can be of any race.

Table 5. RWHAP AIDS Education and Training Center (AETC) Program participants by gender and profession/discipline, July 2020–June 2021—United States and 3 territories

Profession/discipline	Male		Female		Transgender male		Transgender female		Other gender identity	
	N	%	N	%	N	%	N	%	N	%
Clergy/faith-based professional	39	0.3	42	0.1	1	0.6	0	0.0	0	0.0
Community health worker	1,299	10.3	2,403	6.1	44	25.0	85	42.1	128	20.1
Dentist	932	7.4	1,029	2.6	0	0.0	0	0.0	4	0.6
Dietitian/nutritionist	17	0.1	192	0.5	1	0.6	0	0.0	6	0.9
Mental/behavioral health professional	398	3.2	1,539	3.9	9	5.1	5	2.5	31	4.9
Midwife	6	<0.1	74	0.2	0	0.0	0	0.0	1	0.2
Nurse practitioner/nurse professional (prescriber)	328	2.6	2,700	6.9	5	2.8	3	1.5	25	3.9
Nurse professional (non-prescriber)	586	4.6	6,153	15.7	10	5.7	4	2.0	17	2.7
Other allied health professional	262	2.1	1,256	3.2	3	1.7	3	1.5	14	2.2
Other dental professional	70	0.6	940	2.4	0	0.0	0	0.0	0	0.0
Other non-clinical professional	1,099	8.7	3,451	8.8	15	8.5	23	11.4	65	10.2
Other public health professional	1,664	13.2	5,089	12.9	32	18.2	28	13.9	117	18.4
Pharmacist	986	7.8	2,198	5.6	1	0.6	3	1.5	4	0.6
Physician	2,555	20.2	3,043	7.7	2	1.1	6	3.0	33	5.2
Physician assistant	293	2.3	965	2.5	0	0.0	1	0.5	4	0.6
Practice administrator or leader	247	2.0	594	1.5	4	2.3	3	1.5	14	2.2
Social worker/case manager	1,568	12.4	6,814	17.3	48	27.3	34	16.8	164	25.8
Substance abuse professional	275	2.2	822	2.1	1	0.6	4	2.0	9	1.4
Total	12,624	—	39,304	—	176	—	202	—	636	—

Notes: Data shown for each profession/discipline are not mutually exclusive; participants may have reported multiple professions/disciplines.

Subtotals represent the number of unique participants within each gender who reported at least one profession/discipline.

Table 6. RWHAP AIDS Education and Training Center (AETC) Program participants by year and selected service delivery characteristics, July 2016–June 2021—United States and 3 territories

	July 2016– June 2017		July 2017– June 2018		July 2018– June 2019		July 2019– June 2020		July 2020– June 2021	
	N	%	N	%	N	%	N	%	N	%
All clients served										
Provides direct service to clients										
Yes	—	—	37,299	74.3	36,343	70.6	33,163	75.6	37,458	69.7
No	—	—	12,906	25.7	15,126	29.4	10,714	24.4	16,316	30.3
Subtotal	—	—	50,205	100.0	51,469	100.0	43,877	100.0	53,774	100.0
Provides HIV prevention counseling and testing services										
Yes	—	—	22,260	56.9	22,015	54.6	20,405	52.7	24,187	46.8
No	—	—	16,862	43.1	18,305	45.4	18,298	47.3	27,458	53.2
Subtotal	—	—	39,122	100.0	40,320	100.0	38,703	100.0	51,645	100.0
Prescribes Pre-Exposure Prophylaxis (PrEP)										
Yes	—	—	7,834	20.5	8,172	20.7	7,792	19.9	10,145	19.7
No	—	—	30,386	79.5	31,380	79.3	31,452	80.1	41,450	80.3
Subtotal	—	—	38,220	100.0	39,552	100.0	39,244	100.0	51,595	100.0
Prescribes antiretroviral therapy (ART)										
Yes	—	—	—	—	—	—	6,250	16.7	7,456	13.5
No	—	—	—	—	—	—	31,216	83.3	47,709	86.5
Subtotal	—	—	—	—	—	—	37,466	100.0	55,165	100.0
Clients with HIV										
Provides direct services to people with HIV										
Yes	—	—	23,232	60.1	23,037	58.2	22,205	68.5	24,634	66.2
No	—	—	15,421	39.9	16,568	41.8	10,188	31.5	12,604	33.8
Subtotal	—	—	38,653	100.0	39,605	100.0	32,393	100.0	37,238	100.0
Number of years providing direct services to people with HIV										
≤1	—	—	4,256	19.9	5,061	23.5	4,631	21.8	5,774	24.0
2–4	—	—	4,945	23.2	5,120	23.8	5,050	23.7	5,237	21.7
5–9	—	—	3,906	18.3	3,741	17.4	3,825	18.0	4,373	18.2
10–19	—	—	4,644	21.7	4,298	20.0	4,324	20.3	4,774	19.8
≥20	—	—	3,604	16.9	3,293	15.3	3,442	16.2	3,935	16.3
Subtotal	—	—	21,355	100.0	21,513	100.0	21,272	100.0	24,093	100.0
Estimated number of clients with HIV per year										
None per year	—	—	600	3.1	1,240	6.2	1,617	8.0	2,603	11.1
1–9 per year	—	—	4,772	24.4	4,573	22.8	4,400	21.7	4,650	19.8
10–19 per year	—	—	2,337	12.0	2,172	10.8	2,363	11.7	2,289	9.8
20–49 per year	—	—	3,306	16.9	3,326	16.6	3,142	15.5	3,603	15.4
≥50 per year	—	—	8,530	43.6	8,753	43.6	8,724	43.1	10,323	44.0
Subtotal	—	—	19,545	100.0	20,064	100.0	20,246	100.0	23,468	100.0
Percentage of clients with HIV who are racial/ethnic minorities										
None per year	—	—	1,318	6.2	1,635	7.7	1,599	7.8	1,469	6.5
1–24% per year	—	—	4,991	23.4	4,578	21.4	4,778	23.3	4,953	21.8
25–49% per year	—	—	3,750	17.6	3,651	17.1	3,418	16.7	3,956	17.4
50–74% per year	—	—	5,357	25.1	5,580	26.1	5,144	25.1	5,984	26.4
≥75% per year	—	—	5,894	27.7	5,920	27.7	5,557	27.1	6,316	27.9
Subtotal	—	—	21,310	100.0	21,364	100.0	20,496	100.0	22,678	100.0
Percentage of clients with HIV who are receiving ART										
None per year	—	—	1,165	5.5	1,550	7.3	1,924	9.5	1,605	7.1
1–24% per year	—	—	3,330	15.8	3,024	14.3	3,272	16.1	3,406	15.1
25–49% per year	—	—	1,520	7.2	1,432	6.8	1,408	6.9	1,706	7.6
50–74 per year	—	—	2,992	14.2	2,834	13.4	2,637	13.0	2,841	12.6
≥75% per year	—	—	12,080	57.3	12,359	58.3	11,111	54.6	12,957	57.5
Subtotal	—	—	21,087	100.0	21,199	100.0	20,352	100.0	22,515	100.0
Percentage of clients with HIV who have hepatitis B or C co-infection										
None per year	—	—	2,762	13.2	3,178	15.1	3,223	15.9	3,301	14.8
1–24% per year	—	—	10,856	51.9	10,607	50.4	10,683	52.8	12,333	55.4
25–49% per year	—	—	4,817	23.0	4,940	23.5	4,281	21.1	4,663	20.9
50–74% per year	—	—	1,809	8.6	1,776	8.4	1,435	7.1	1,502	6.7
≥75% per year	—	—	673	3.2	528	2.5	630	3.1	476	2.1
Subtotal	—	—	20,917	100.0	21,029	100.0	20,252	100.0	22,275	100.0

Note: Percentages are rounded and may not sum to 100.0% as displayed.

Table 7. RWHAP AIDS Education and Training Center (AETC) Program participants by race/ethnicity and service delivery to people with HIV, July 2020–June 2021—United States and 3 territories

	American Indian/ Alaska Native		Asian		Black/ African American		Hispanic/Latino ^a		Native Hawaiian/ Pacific Islander		White		Multiple races	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Number of years providing direct services to people with HIV														
≤1	28	19.0	366	28.3	1,279	22.6	1,126	25.6	29	24.2	2,391	23.4	273	30.9
2–4	23	15.6	315	24.4	1,229	21.7	1,031	23.4	29	24.2	2,108	20.6	188	21.3
5–9	28	19.0	234	18.1	1,047	18.5	806	18.3	29	24.2	1,856	18.2	143	16.2
10–19	38	25.9	234	18.1	1,285	22.7	875	19.9	16	13.3	1,883	18.4	166	18.8
≥20	30	20.4	144	11.1	828	14.6	564	12.8	17	14.2	1,978	19.4	114	12.9
Subtotal	147	100.0	1,293	100.0	5,668	100.0	4,402	100.0	120	100.0	10,216	100.0	884	100.0
Percentage of clients with HIV who are racial/ethnic minorities														
None per year	8	5.8	75	6.5	261	4.9	196	4.7	4	3.7	763	7.9	39	4.8
1–24% per year	38	27.7	332	28.8	939	17.5	773	18.6	20	18.3	2,449	25.5	144	17.8
25–49% per year	21	15.3	211	18.3	750	13.9	644	15.5	19	17.4	1,990	20.7	120	14.8
50–74% per year	32	23.4	263	22.8	1,402	26.1	1,093	26.3	23	21.1	2,584	26.9	239	29.5
≥75% per year	38	27.7	272	23.6	2,028	37.7	1,457	35.0	43	39.4	1,815	18.9	268	33.1
Subtotal	137	100.0	1,153	100.0	5,380	100.0	4,163	100.0	109	100.0	9,601	100.0	810	100.0

Note: Percentages are rounded and may not sum to 100.0% as displayed.

^a Hispanics/Latinos can be of any race.

Table 8. RWHAP AIDS Education and Training Center (AETC) Program participants by year and employment setting, July 2016–June 2021—United States and 3 territories

	July 2016– June 2017		July 2017– June 2018		July 2018– June 2019		July 2019– June 2020		July 2020– June 2021	
	N	%	N	%	N	%	N	%	N	%
Employment setting										
Academic health center	—	—	7,341	14.9	8,425	16.8	6,813	14.1	6,375	11.3
Correctional facility	—	—	2,194	4.5	1,761	3.5	1,307	2.7	1,063	1.9
Emergency department	—	—	1,290	2.6	1,044	2.1	538	1.1	338	0.6
Employment setting does not involve the provision of care or services to patients/clients	—	—	—	—	—	—	2,150	4.4	4,390	7.8
Family planning clinic	—	—	1,607	3.3	1,436	2.9	362	0.7	396	0.7
Federally Qualified Health Center	—	—	6,615	13.4	6,730	13.4	5,137	10.6	6,078	10.8
HIV or infectious diseases clinic	—	—	7,576	15.4	8,222	16.4	5,385	11.1	6,977	12.4
HMO/managed care organization	—	—	772	1.6	803	1.6	663	1.4	587	1.0
Hospital-based clinic	—	—	4,705	9.6	4,529	9.0	2,758	5.7	2,823	5.0
Indian health services/tribal clinic	—	—	762	1.5	611	1.2	291	0.6	268	0.5
Long-term nursing facility	—	—	463	0.9	439	0.9	246	0.5	261	0.5
Maternal/child health clinic	—	—	964	2.0	907	1.8	166	0.3	198	0.4
Mental health clinic	—	—	1,829	3.7	1,912	3.8	835	1.7	922	1.6
Military or veteran's health facility	—	—	433	0.9	412	0.8	333	0.7	262	0.5
Not working	—	—	2,746	5.6	3,144	6.3	3,556	7.3	3,638	6.4
Other community-based organization	—	—	6,145	12.5	6,547	13.0	5,772	11.9	7,140	12.7
Other federal health facility	—	—	554	1.1	515	1.0	355	0.7	428	0.8
Other primary care setting	—	—	3,389	6.9	3,411	6.8	1,972	4.1	1,864	3.3
Pharmacy	—	—	2,759	5.6	2,693	5.4	1,679	3.5	1,636	2.9
Private practice	—	—	2,166	4.4	1,897	3.8	1,383	2.9	1,660	2.9
State or local health department	—	—	5,570	11.3	5,632	11.2	5,029	10.4	6,146	10.9
STD clinic	—	—	3,112	6.3	3,426	6.8	848	1.8	1,138	2.0
Student health clinic	—	—	941	1.9	1,095	2.2	683	1.4	756	1.3
Substance abuse treatment center	—	—	1,958	4.0	1,958	3.9	876	1.8	1,085	1.9
Subtotal	—	—	49,232	100.0	50,175	100.0	48,442	100.0	56,429	100.0
Rural and suburban/urban employment settings										
Rural settings only	—	—	4,787	10.9	4,015	9.0	3,041	7.2	4,471	9.0
Both rural and suburban/urban settings ^a	—	—	1,242	2.8	1,101	2.5	604	1.4	636	1.3
Suburban/urban settings only	—	—	38,061	86.3	39,350	88.5	38,470	91.3	44,358	89.7
Subtotal	—	—	44,090	100.0	44,466	100.0	42,115	100.0	49,465	100.0
Organizations that received RWHAP funding										
Yes	—	—	20,973	42.2	23,211	43.3	18,914	43.7	22,106	41.4
No	—	—	16,476	33.1	15,192	28.4	12,412	28.7	18,800	35.2
Don't know/not sure	—	—	12,257	24.7	15,173	28.3	11,990	27.7	12,445	23.3
Subtotal	—	—	49,706	100.0	53,576	100.0	43,316	100.0	53,351	100.0

Notes: Participant data unavailable for July 2016–June 2017.

Participants reporting for July 2017–June 2018 and July 2018–June 2019 selected all employment settings that apply. Data for these years are not mutually exclusive; numbers may not sum to the subtotal and percentages may not sum to 100.0%. The subtotal for employment setting is the number of unique participants who selected at least one employment setting category.

^a Participants who reported more than one employment setting and reported both rural and suburban/urban settings.