Focused Strategies for Reimagining the HIV Workforce and Achieving the Goals of EHE

CDC/HRSA Advisory Committee (CHAC) Workforce Workgroup November 1-3, 2022

HIV Workforce Development as a Key Pillar for Ending the US HIV Epidemic by 2030

EHE relies on 4 key strategies:

Ending the HIV Epidemic



A strengthened HIV workforce is needed to support EHE implementation.



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Federal Implementation Plan for the United States | 2022-2025



The new implementation plan outlines specific action areas for federal agencies to support the National HIV/AIDS Strategy including the following workforce priorities:



Increased workforce diversity





Culturally and linguistically appropriate services

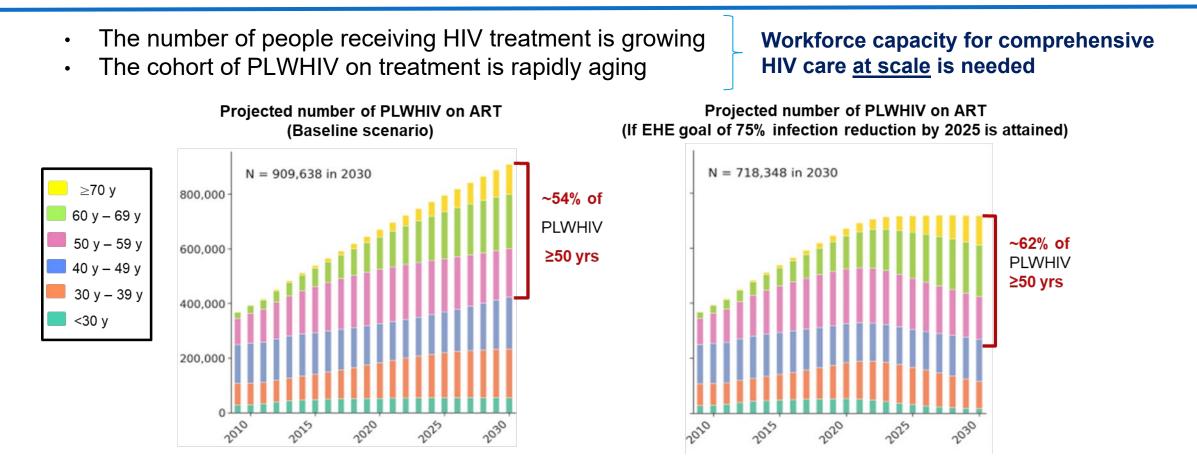


Team-based care delivery





Workforce Challenge #1: <u>Scale of comprehensive HIV care delivery</u>



Source: Althoff KN et al. The shifting aging distribution of people with HIV using antiretroviral therapy in the United States. AIDS. 2022;36:459-471.



Clinical Infectious Diseases

HIV/AIDS

MAJOR ARTICLE

Studies on HIV Workforce Supply and Demand:



Supply and Demand Projections from 2010 to 2015

HIV workforce supply was forecasted to decrease by 10%, while demand was forecasted to increase by 14%

	2010	2011	2012	2013	2014	2015
HIV Clinicians		his and a state of a second				
Total	4,937	4,823	4,724	4,625	4,527	4,429
HIV Visits Demanded						
Total	5,451,057	5,601,868	5,752,700	5,903,719	6,054,760	6,205,738

*Updated HRSA workforce survey data coming soon

Factors Limiting Workforce Capacity:



Aging HIV workforce



Insufficient trainees entering HIV specialties



Strain on the ID workforce due to COVID-19

hivma

Qualifications, Demographics, Satisfaction, and Future Capacity of the HIV Care Provider Workforce in the

United States, 2013–2014 John Weiser,¹ Linda Beer,¹ Brady T. West,² Christopher C. Duke,³ Garrett W. Gremel,³ and Jacek Skarbinski¹

Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, Georgia; ²Survey Research Center, University of Michigan, and ³Altarum Institute, Ann Arbor, Michigan

Care capacity in the HIV workforce was estimated to increase by 65,000 patients by 2019, while the number of people living with HIV in need of care was estimated to increase by at least 100,000.

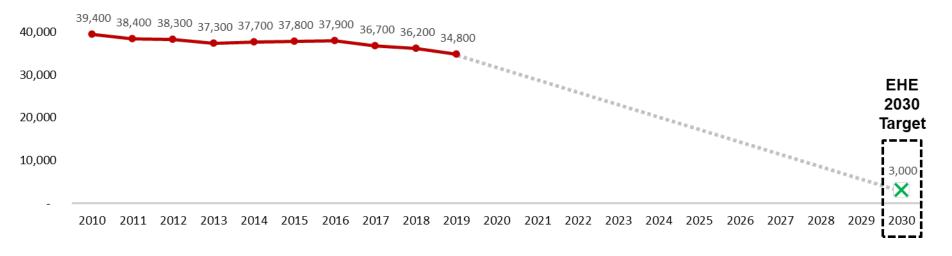
Sources: Gilman et al. HIV Specialist, August 2016.; Weiser et al. CID. 2016;63(7):966-975.



Workforce Challenge #2: <u>Reach</u> of HIV prevention and treatment

- Effective tools for HIV prevention/treatment exist, but new infections have remained relatively stable
- Accelerated decreases in annual HIV infections are needed to attain EHE goals

Better reach of HIV services (testing, PrEP, treatment) among people living with or at risk of HIV is needed



Annual HIV Infections in the U.S., 2010-2019



Workforce Challenge #3: <u>Effectiveness</u> of HIV prevention and treatment delivery systems

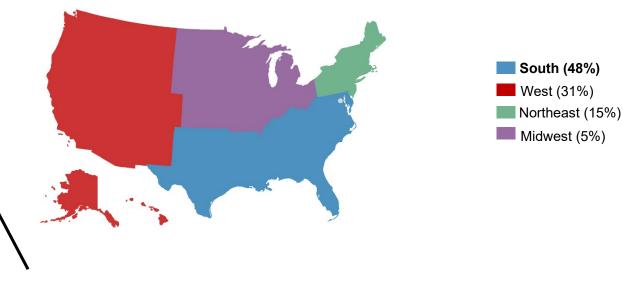
- Gaps and failures in the systems for delivery of effective HIV prevention and treatment remain too frequent
- E.g., high transmission HIV clusters represent "breakdowns" of existing HIV prevention and treatment systems

Increased effectiveness of HIV prevention and treatment delivery systems is needed

Among 136 high HIV transmission clusters first detected 2018-2019, the CDC identified 38 **large clusters** that had grown to >25 people by 2021:

29 clusters primarily involved MSM

6 clusters primarily involved PWID



People in 29 Large HIV Transmission Clusters Primarily Involving MSM by Census Region

Approaches for Addressing HIV Workforce Challenges

Traditional Approach

l.e.:

Increased investment in primarily existing models of HIV workforce development, prevention, and care delivery

Reimagining the HIV Workforce

l.e.:

VS.

Adoption of new models for HIV workforce

development that are designed to address <u>gaps in scale</u>, <u>reach</u>, and <u>effectiveness of prevention and care delivery</u>

5 Strategies for Reimagining the HIV Workforce



Definitions of the HIV Workforce



Adopting e Decentralized and Differentiated Models for Service Delivery



Enabling Practice to the Highest Level of Training and Licensure



Mitigate the Social

Determinants of

Health

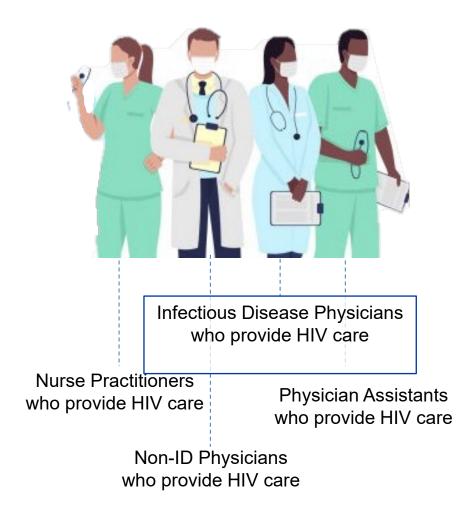


Adopting Multidisciplinary Team-Based Models for HIV Prevention and Care

Strategy #1 Broadening Definitions of the HIV Workforce

Traditional Model for Defining the HIV Workforce

Singular focus on HIV specialty service providers



Reimagined Model for Defining the HIV Workforce

Non-HIV specialist practitioners involved in delivery of comprehensive health and social services to people at risk of and living with HIV

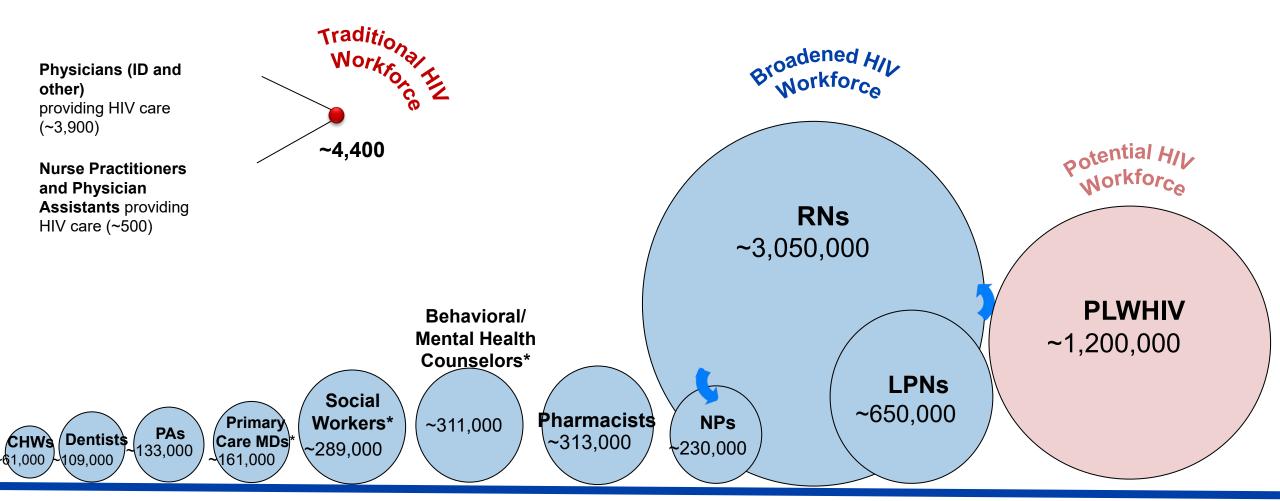




PLWHIV, Primary Care Providers, RNs, LPNs, Pharmacists, Dentists, Social Workers, Behavioral/Mental Health Professionals, Community Health Workers, etc.

Strategy #1: Broadening Definitions of the HIV Workforce

Relative Sizes of the Traditional HIV Workforce vs. the Available, Qualified Workforce



Notes:

Data:

HIV Specialists: 2015 estimates, HRSA, HIV Specialist; Other workforce numbers: U.S. Bureau of Labor Statistics, Occupational Employment and Wage Statistics, 2020: HIV.gov U.S. Statistics, 2022 * Primary Care MDs are comprised of General Internal Medicine Physicians and Family Medicine Physicians

* Social Workers are comprised of Healthcare, Mental Health, and Substance Abuse Social Workers

* Counselors are comprised of Substance Abuse, Behavioral Disorder, and Mental Health Counselors

Strategy #2: Adopting Interdisciplinary Team-Based Models for HIV Services

Reimagined Model for Team-Based HIV Service Delivery

Comprehensive and team-based model of whole-person care that relies on complementary skills

Physician-centered model focused on delivery of clinical prevention and treatment services

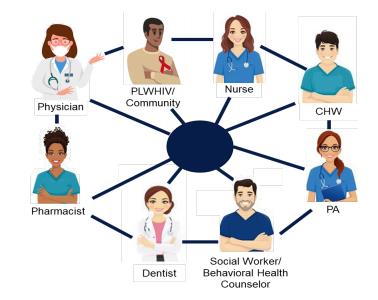




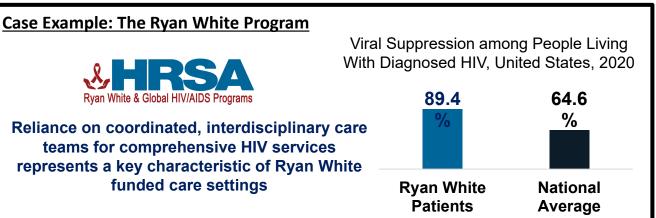


Physician





The HIV workforce should have expertise in caring for aging PLWHIV.



Strategy #3: Enabling Practice to the Highest Level of Training and Licensure

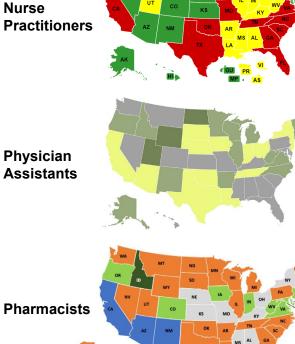
Traditional Model

State-level regulatory restrictions preventing practice to the highest level of training/licensure for key members of the HIV care team

E.g.:

Nurse **Practitioners**

Physician Assistants



Nurse **Practitioners**

If full NP SOP were adopted nationally, the number of U.S. residents living in a county with primary care shortages would decrease by 70%

Nurse-delivered primary care results in comparable patient outcomes

relative to physician-delivered care, including for HIV treatment

Ability to practice to the highest

level of license and training

APRNs/PAs are \sim 50% more likely to prescribe PrEP than physicians

Physician Assistants (PAs)

Pharmacists

Advancement in pharmacist certification and training has vastly expanded prevention and treatment services delivered by pharmacists

Reimagined Model

Making the Case for Removal of Practice Restrictions:

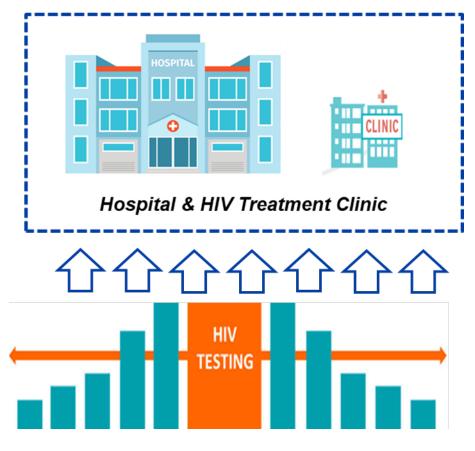
Campaign for Action; American Academy of Physician Assistants; National Alliance of State Pharmacy Associations: Sources: The Future of Nursing: 2020-2030, National Academies of Science, Engineering, and Medicine, 2021; Laurant, M, et al. Cochrane Database Syst Rev. 2018;7(7); Kurtzman ET, Barnow BS. Med Care. 2017;55(6):615-622; Zhang C, et al. AIDS patient care and STDs. 2019;33(12):507-527.; Owen JA, Skelton JB, Maine LL. Pharmacy. 2020;8(3):157.

Strategy #4: Adopting Decentralized and Differentiated Models for HIV Service Delivery

Traditional Model for HIV Service Delivery

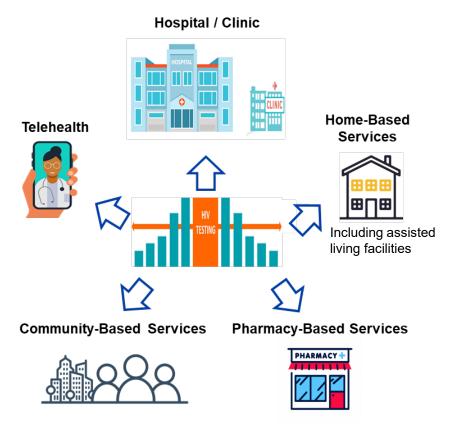
Delivery of one-size-fits-all HIV services across the statusneutral care continuum within traditional, centralized clinical settings

One-size-fits-all, centralized clinical care



Reimagined Model for HIV Service Delivery

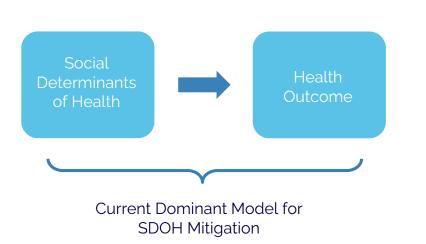
Differentiated and decentralized models that tailor HIV service delivery across the status-neutral care continuum to the needs of patients



Strategy #5: Increasing Workforce Capacity to Mitigate the Mechanisms of Social Determinants of Health (SDOH)

Traditional Model for Addressing SDOH in HIV Care

SDOH frameworks frequently used in healthcare and health policy rely largely on broad and static domains of SDOH.



Reimagined Model for Addressing SDOH in HIV Care

Focus on identification and understanding of specific mechanisms of SDOH impact for **targeted mitigation**



It is important to consider the unique needs of PLWHIV who are aging, particularly those who have been impacted by harmful SDOH that shape long term health outcomes.

Recommendations for Supporting a Reimagined HIV Workforce 1-5

- <u>Remove regulatory barriers</u> that place restrictions on practice at the highest level of training and licensure (e.g., for nurse practitioners, PAs, medical technicians, pharmacists, etc.) and explore innovations to extend practice scope and capabilities, coupled with appropriate recognition and compensation
 - a. Encourage and incentivize programs that create pathways and remove barriers for more diversity in professional careers beyond CHW (e.g., fellowship programs)
- 2. Ensure CMS offers <u>reimbursement for decentralized</u>, <u>differentiated</u>, <u>and team-based whole-person</u>, <u>contextualized HIV prevention and care services</u>
- 3. Support a shift toward education and training for the future health workforce that emphasizes <u>key competencies of team-based</u>, <u>whole-person contextualized HIV care</u> and increase <u>funding for specialized HIV training programs</u> (e.g., via GME, GNE, HRSA, etc.)
- 4. Invest in <u>infrastructure development for delivery of decentralized, differentiated HIV prevention and care</u> (e.g., telehealth, community-based delivery of services, etc.)
- 5. Allocate funding to HIV-specific <u>demonstration projects designed to mitigate the specific mechanisms of SDOH</u> <u>and foster multilevel resilience (e.g., via Medicaid Section 1115)</u>

Recommendations for Supporting a Reimagined HIV Workforce 6-9

- 6. Better integrate all team members (e.g. CHWs, RNs, LPNs, Social Workers, Pharmacists, Behavioral/Mental Health Professionals) into the HIV workforce in partnership with other care providers and address appropriate training standards, compensation, and paths for promotion
- 7. Develop a standing workgroup/committee to provide guidance and to monitor and address workforce issues, including:
 - a. Recruitment of a diverse workforce adequately representing the communities most affected by the HIV pandemic
 - b. Appropriate and meaningful involvement of PLWHIV
 - c. Need for the HIV workforce to incorporate a syndemic approach, reflecting the intersecting epidemics of substance abuse, violence and mental health disorders and other social determinants of health affecting and compromising care for PLWH
 - d. Ensuring alignment of the workforce with current and emerging needs and challenges of PLWHIV communities
- 8. Develop and disseminate effective targeted, multi-level interventions to mitigate the social determinants of health (SDOH)
- 9. Identify and support viable HIV career workforce trajectories through adequate compensation, advancement opportunities, and alignment with current and emerging workforce needs and challenges