



Zoom Keeping



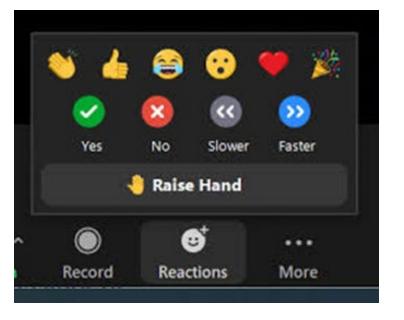
Recording will be available on targethiv.com/elevate



Audio: Please mute when not speaking



Participation:
Please use Zoom Reaction
Features including Raise
Hand









Disclaimer

The ELVATE project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$XX with 100% funded by HRSA/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA/HHS, or the U.S. Government.

The people in the images in this presentation are models and may or may not have HIV.







Partners

















Facilitators



Lauren Miller (She/her/Ella)



Michelle Dawson (She/Her)



Precious Illonah (She/Her)







Intended Audience

General public and people with HIV aligned with a RWHAP Recipient or Subrecipient such as people:

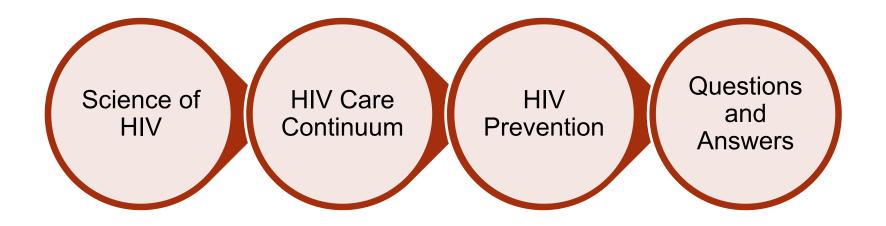
- Employed by RWHAP
- Members of Planning Councils or Planning Bodies
- Members of Consumer, Community, & Patient Advisory Boards
- Directors from the Boards of RWHAP
- Members of Clinical Quality Management Teams or Committees
- Other people with HIV aligned with a RWHAP seeking greater involvement







Agenda









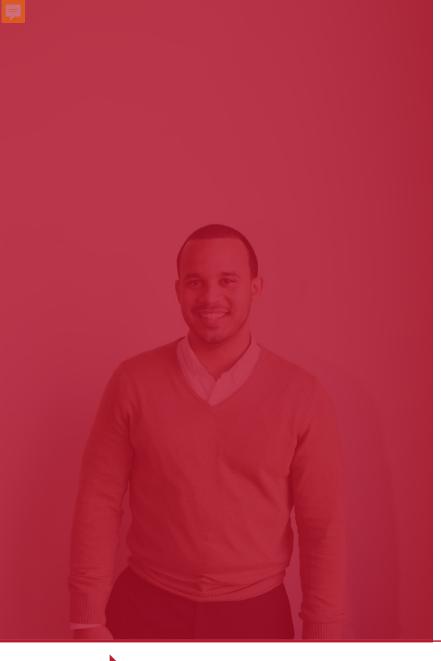
Objectives

By the end of this webinar, you will be able to:

Describe HIV Understand the Describe the Describe the Define key HIVprevention options, basic biology of HIV, different HIV tests **HIV Care** related terminology including the stages including PrEP and and how they work Continuum of HIV infection PEP







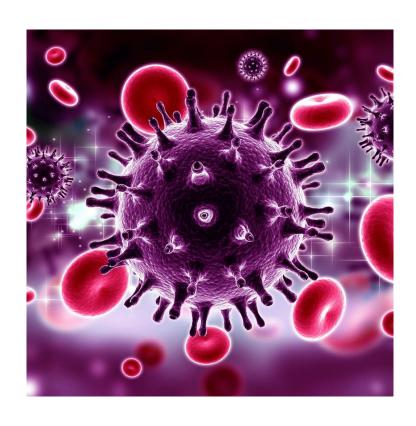
The Science of HIV/AIDS

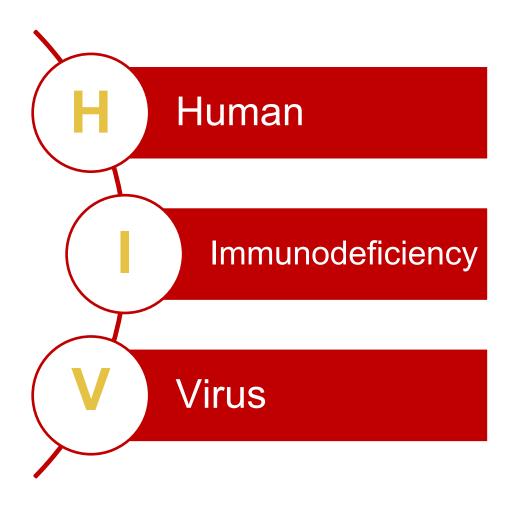






HIV/AIDS









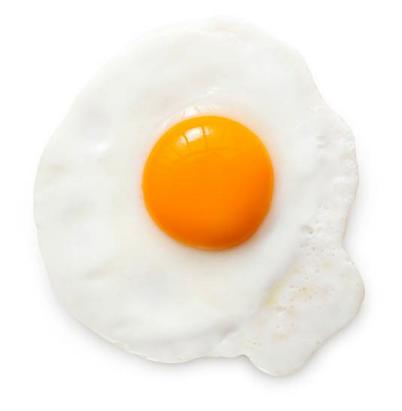


Think of a Fried Egg

□ Host Cell: CD4 T-cell
The CD4 cell is the host cell for HIV.

■ Nucleus: The core of the CD4 cell

The cell nucleus contains DNA.





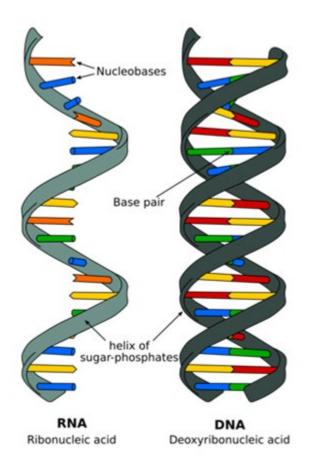




RNA vs. DNA

RNA

- ☐ HIV carries RNA
- ☐ Contains 1 strand of genetic information



DNA

- ☐ Humans carry DNA
- ☐ Contains 2 strands of genetic information







Transmitting HIV: How HIV Is Spread

- A person can only get HIV by coming into direct contact with certain body fluids from a person with HIV who has a detectable viral load.
- □ HIV is most commonly spread through:
 - Vaginal or anal sex with someone who has HIV without using a condom or taking medicines to prevent or treat HIV.
 - □ Sharing injection drug equipment with someone who has HIV.
 - From mother to child during pregnancy, birth, or breast/chestfeeding.







People Cannot Acquire HIV Through:

- x Everyday social activity or casual contact
- x Handshakes
- x Coughs or sneezes
- x Sweat or tears
- x Food
- x Drinking fountains
- x Straws, spoons, or cups
- x Mosquito bites & other bug bites (ticks, lice, etc.)

- x Sharing: toilets, telephones, office equipment, clothing, cooking or eating utensils
- x Hugging, touching
- x Attending church, school, or going to any public place with a person with HIV
- x Working with someone with HIV







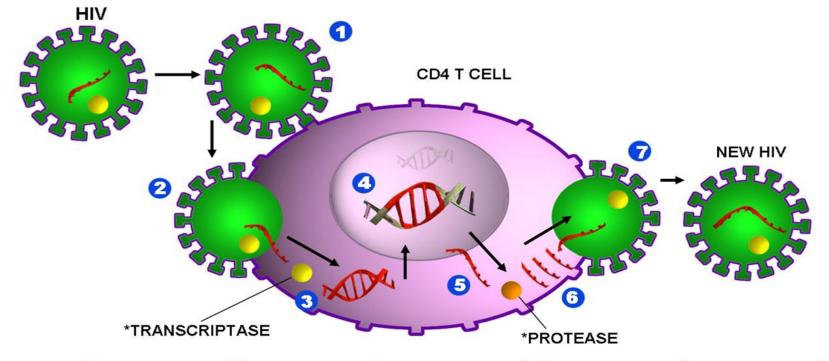
Can a person who does not have HIV acquire HIV by hugging a person with HIV while they are crying?

- a. Yes
- b. No









Attachment

- 1. HIV binds to receptors on the CD4 T-cell.
- · A message is sent to the CD4 T-cell to let the virus in.

Fusion

- 2. Once bound, the virus is allowed to dump its contents into the CD4 T-cell.
- Included in its contents are HIV RNA and reverse transcriptase.

Reverse **Transcription**

- 3. The HIV RNA is 4. turned into double-stranded DNA within the CD4 T-cell.
- The enzyme *reverse transcriptase aids in this process.

ntegration

Once the DNA is formed, it hides itself in the human DNA housed in the CD4T-cell nucleus.

- Copies of HIV DNA are made and released from the nucleus in small packages'.
- Each of the small packages' contains information for creating a new HIV.

Transcription Assembly

6. The *protease enzyme in the cell combines the DNA 'packages' to create active virus.

Budding

- 7. Once the new HIV is formed, it pushes itself out of the CD4 T-cell
- The virus steals part of the CD4 T-cell protective coating.

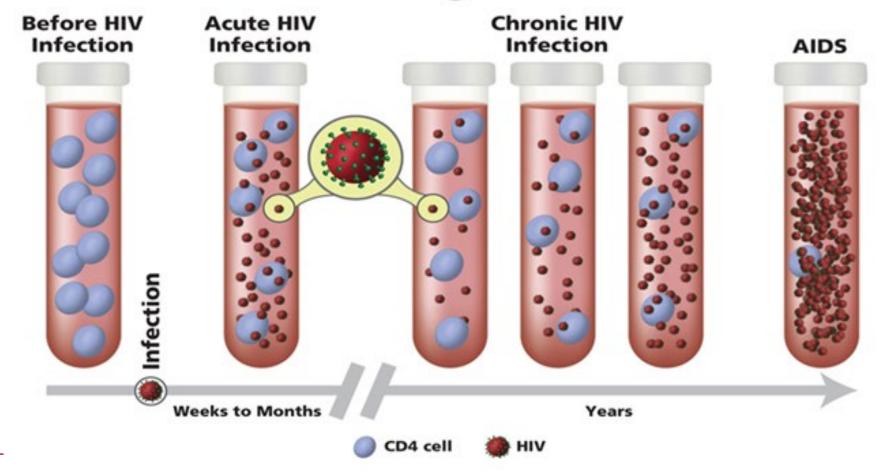






Stages of HIV Infection

HIV Progression









Stages of HIV

- Occurs 2-4 weeks after transmission
- May experience flu-like symptoms

Acute HIV Infection

Chronic HIV Infection

- Chronic signs and symptoms are not present; person may look and feel well
- Person with chronic HIV infection can transmit HIV to others if they have a detectable viral load

- Virus weakens and destroys the immune system
- The body has lost most of its ability to fight off bacteria, viruses, fungi, parasites, and other germs

AIDS







People in the Acute stage may not feel sick, but the level of HIV in the blood is very high; this increases risk of HIV transmission.

- a. True
- b. False







True or False? The Chronic stage (sometimes called asymptomatic HIV infection) can last decades; most people do not advance to AIDS even if the person is not taking HIV medication.

- a. True
- b. False







AIDS is the most severe phase of HIV infection. Without treatment, the CDC estimates the average survival rate to be three years once AIDS is diagnosed.

- a. True
- b. False







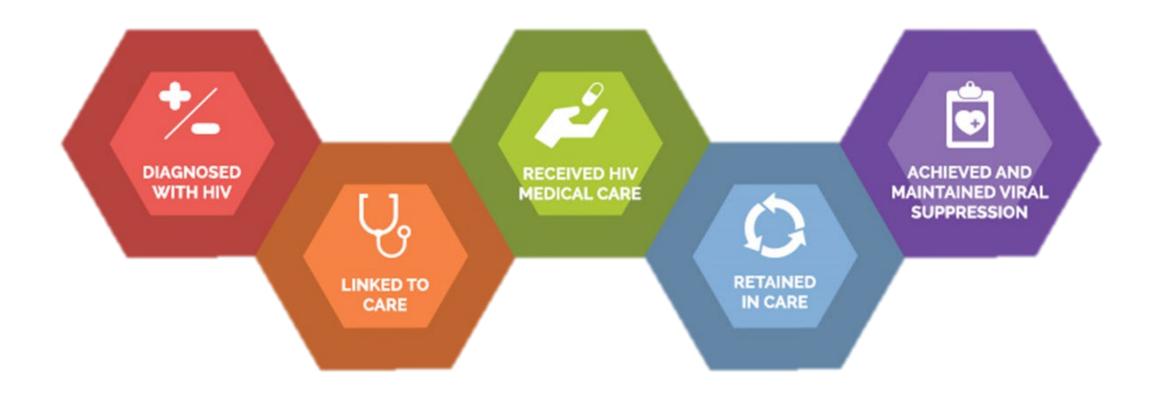
The HIV Care Continuum







HIV Care Continuum









Diagnosis

HOW CAN YOU TELL IF YOU HAVE HIV?

You **can't** rely on symptoms to tell if you have HIV.

The **only** way to know for sure is to **GET TESTED!**







- Diagnosis: A medical determination that a patient has a specific illness
- □ HIV testing can occur in:
 - Clinic or lab
 - Community setting
 - At home (self-testing)





Types of HIV Tests

Nucleic Acid Test

- Looks for HIV (virus) in the blood
- Can detect HIV infection 10-33 days after exposure

Antigen/Antibody Test

- Look for HIV antibodies and antigens
- Blood drawn from a vein can detect HIV 18-45 days after exposure
- Blood drawn from a finger prick can detect HIV 18-90 days after exposure

Antibody Test

- Look for HIV antibodies in blood or oral fluid
- Can detect HIV 23-90 days after exposure



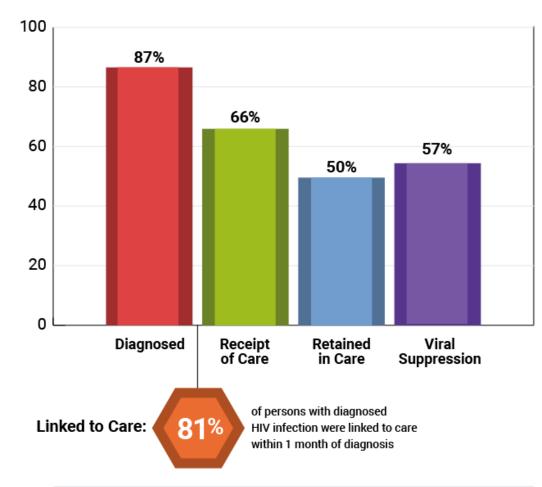




Diagnosis and Linkage to Care



Prevalence-based HIV Care Continuum, U.S. and 6 Dependent Areas, 2019



Note: Receipt of medical care was defined as ≥1 test (CD4 or VL) in 2019. Retained in medical care was defined as ≥ 2 tests (CD4 or VL) ≥ 3 months apart in 2019. Viral suppression was defined as < 200 copies/mL on the most recent test in 2019. Linkage to care is defined as having ≥ one CD4 or VL test within 30 days (1 month) of diagnosis. (Linkage is calculated differently from the other steps in the continuum, and cannot be directly compared to other steps.)





Ryan White HIV/AIDS Program (RWHAP)

RWHAP provides a comprehensive system of HIV primary medical care, essential support services, and medications for low-income people with HIV



About the RWHAP







Examples of Services Funded under the RWHAP

Core Medical Services

- Outpatient/Ambulatory Health Services
- Medical case management
- Oral healthcare
- Hospice services
- Mental health services
- Medical nutrition therapy
- Substance use services

Support Services

- Non-medical case management
- Child care services
- Emergency financial assistance
- Food bank/home-delivered meals
- Housing services
- Linguistics services
- Medical transportation services

Plus: AIDS Drug Assistance Program (ADAP), AIDS Pharmaceutical Assistance (APA), and Health Insurance Premium and Cost-sharing





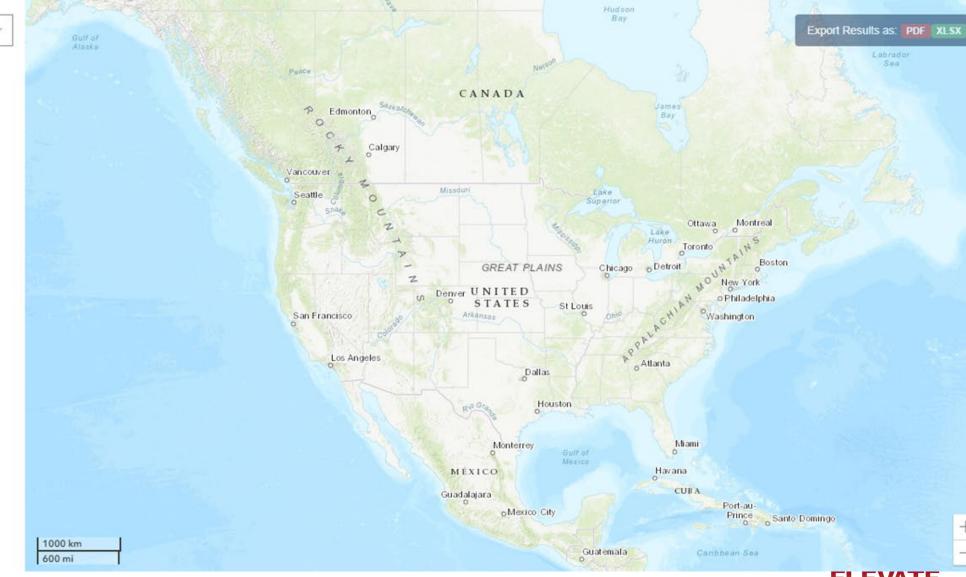


Find a Ryan White HIV/AIDS Program Medical Provider

About the Ryan White HIV/AIDS Program | About this To

Enter a location Q 10 miles ~

Search Results:









Goals of Treatment

- Decrease viral replication (viral load)
- Restore and preserve immune function (increase CD4 count)
- Reduce HIV complications
- Delay onset of AIDS
- Prevent development of opportunistic infections
- Prevent transmission of HIV





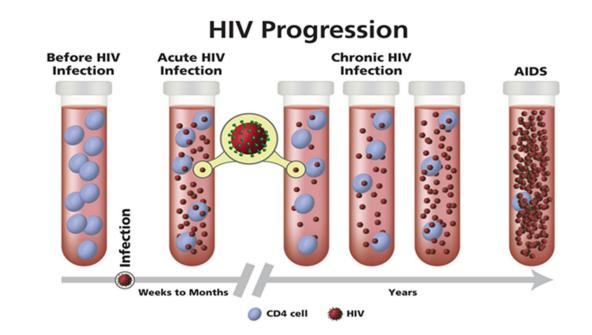




Viral Load

Viral load is the amount of HIV in the blood of someone who has HIV.

- Viral suppression is when the function and replication of a virus are reduced.
- An undetectable viral load is when a person's viral load is so low that a test cannot detect it.









Antiretrovirals

- Antiretrovirals (ARV) are a class of HIV medications that has had a profound positive impact on the illness by making it more manageable.
 - □ Antiretroviral therapy (ART) is a treatment regimen that can lower a person's viral load.







NRTIs	NNRTIs	Pls	lls	Entry Inhibitors	Boosters
Descovy® Emtriva® Epivir® Epzicom® Truvada® Viread® Ziagen®	Edurant® Intelence® Sustiva®	Evotaz® Prezcobix® Prezista® Reyataz®	Isentress® Tivicay®	Selzentry®	Norvir® Tybost®



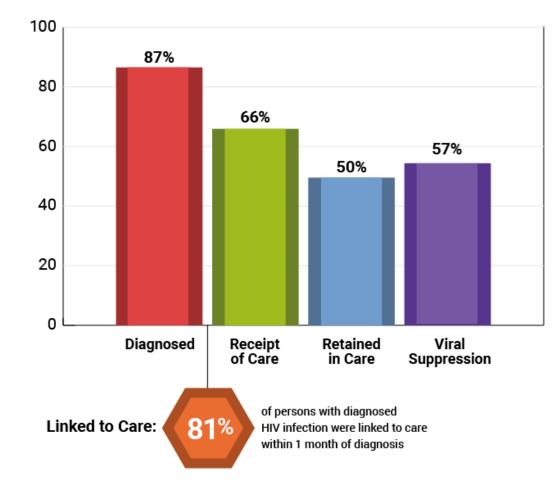




Retention in Care



Prevalence-based HIV Care Continuum, U.S. and 6 Dependent Areas, 2019



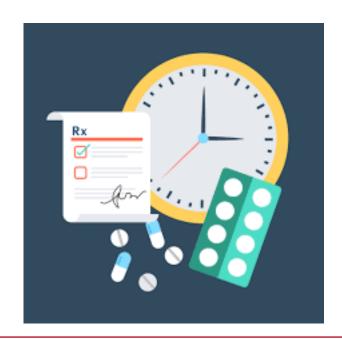
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What is Medication Adherence?

- Medication adherence is the ability to stick to treatment recommendations.
- □ This includes:
 - Taking medications exactly as prescribed
 - Keeping medical appointments
 - Avoiding drug interactions

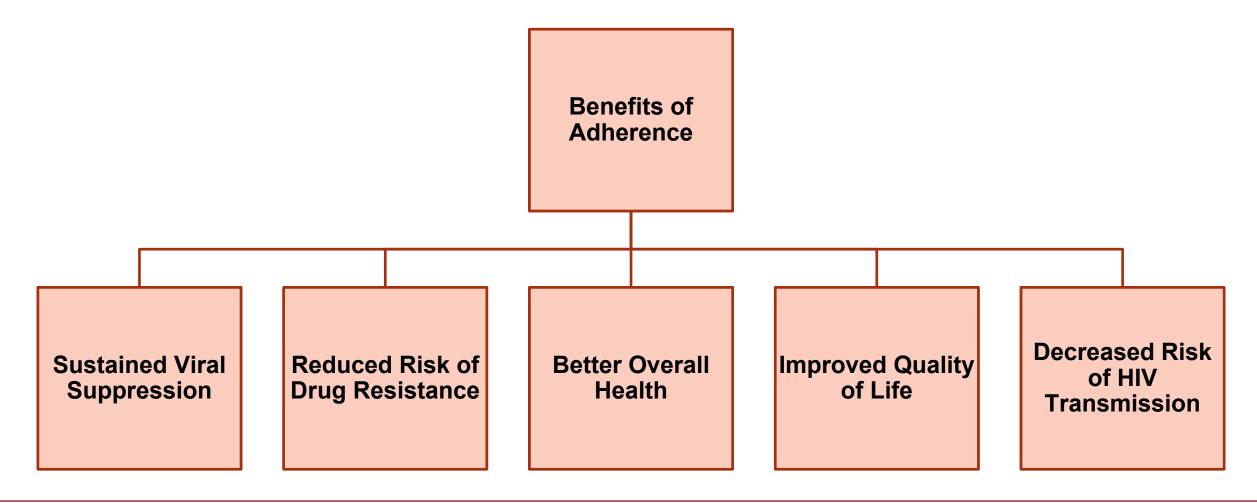








Medication Adherence is Important

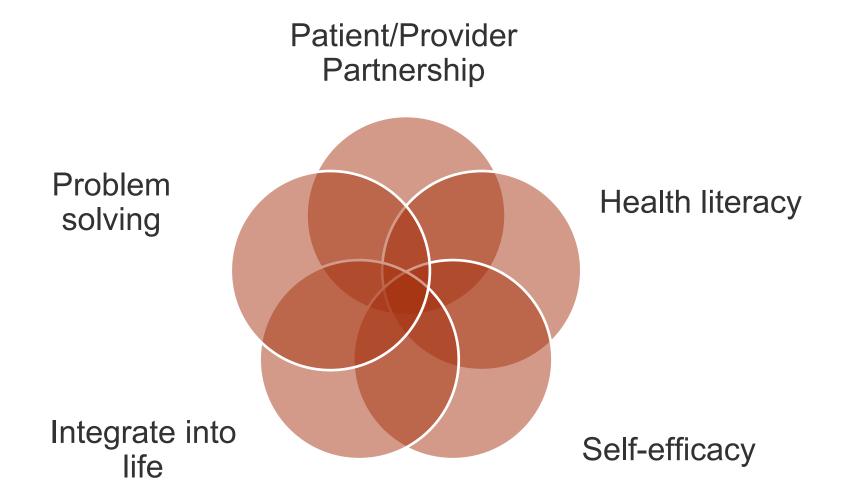








Medication Adherence Requires...





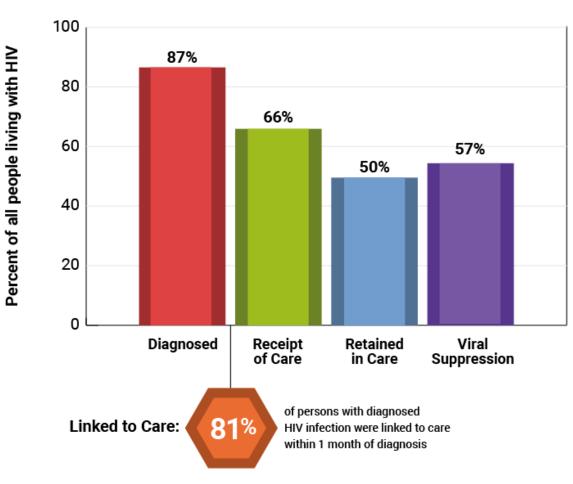




Viral Suppression

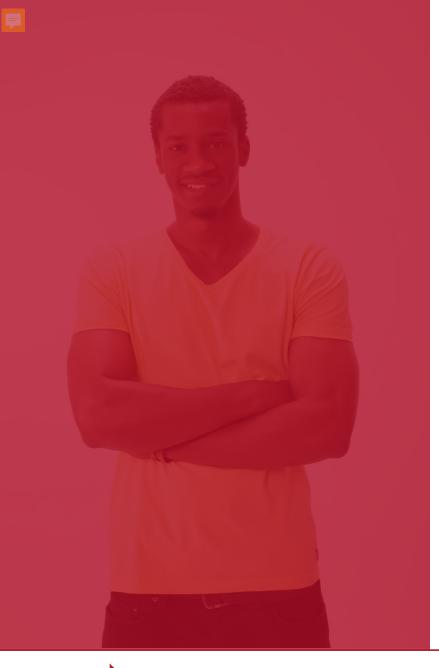


Prevalence-based HIV Care Continuum, U.S. and 6 Dependent Areas, 2019



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HIV Prevention







Prevent against HIV

- Use condoms when having sex
- □ Use clean needles or drug injection equipment
- Choose not to have sex or inject drugs
- □ Take PrEP (pre-exposure prophylaxis)
- □ Take PEP (post-exposure prophylaxis)
- Encourage partners with HIV to take their HIV medications







PrEP: Pre-Exposure Prophylaxis

- ☐ Truvada®
- ☐ Descovy[®]
- ☐ Apretude®



PrEP (Pre-Exposure Prophylaxis)







PEP: Post-Exposure Prophylaxis

- PEP consists of an HIV regimen (raltegravir) (Isentress) and Truvada)
- PEP is taken within 24 to 72 hours of being possibly exposed to HIV
- Once prescribed, PEP must be taken for 28 days









Treatment as Prevention (TasP)

- □ People with HIV who have an undetectable viral load have a 96% chance of not transmitting the virus to their partner and/or partners
- □ When clients understand how HIV treatment works in their bodies, it positions them to be accountable to themselves, their partners and the community as a whole

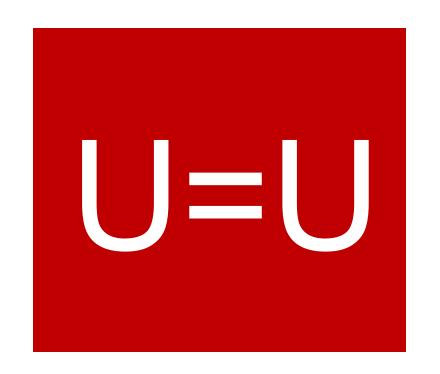






Undetectable = Transmissible (U=U)

People with HIV who take HIV medicine daily as prescribed and get and keep an undetectable viral load have **effectively no risk of sexually transmitting HIV** to their partners.









Poll 5

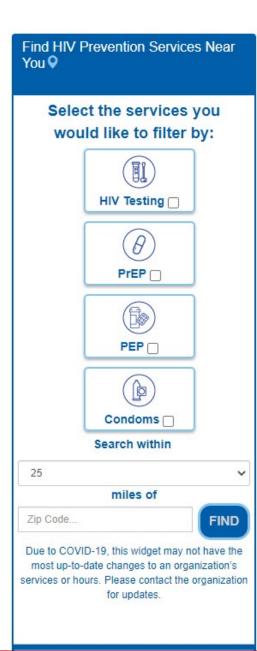
A person with HIV who has an undetectable viral load has effectively no risk of passing HIV to another person.

- a. True
- b. False









Find HIV Prevention Services

Find HIV Prevention Services Near You













The Next Webinar

Harm Reduction Principles in HIV Services Overview

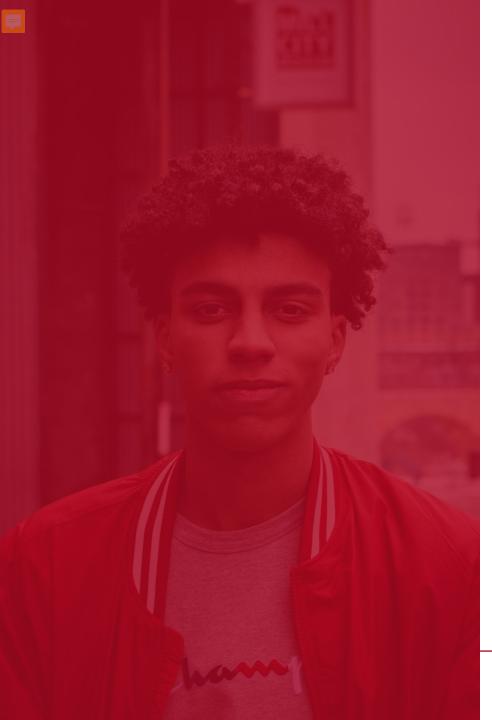
March 8, 2022

Register today! See you there!









Get in Touch



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Q&A



