



# PrEP Training for Health Care Providers

(Version 1.0)



# Welcome!

- Please sign the registration sheet.
- Please make a name tag for yourself.
- Please take a participant manual, notebook, and pen.

# Introductions

- Take 1 minute (and only 1 minute, please!) to:
  - State your name, organization and position.

# PrEP-Specific Competencies

**After completing the training program, participants will be able to:**

- Identify eligible candidates for PrEP.
- Assess individual risk for HIV.
- Educate and counsel PrEP candidates and users.
- Assess medical eligibility for PrEP.
- Prescribe PrEP.
- Conduct clinical and laboratory assessments during follow-up PrEP visits.
- Assess PrEP Monitoring and Evaluation tools.
- Provide adherence education, counseling and support to PrEP candidates and users.

# Training Overview

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PrEP Basics

2

PrEP Screening and Eligibility

3

Initial and Follow-up PrEP Visits

4

Monitoring and Managing PrEP Side Effects,  
Seroconversion, and Stigma

# Training Overview, cont.

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**Post-test and Evaluation**

**6**

**PrEP Monitoring and Evaluation Tools and closing**

# Ground Rules

- Punctuality
- Confidentiality
- Respect for differing opinions
- Active participation in all training activities
- Agreement on cell phone and laptop use
- Questions encouraged
- Allow others to finish speaking before responding or commenting yourself.

# Pre-Program Assessment

- The purpose of this assessment is to determine what you know about implementing PrEP. Your responses will help determine if there is anything in this training that needs to be adjusted in the future.
- We assume that know little about PrEP, so do not worry if you do not know all of the answers.
- You will have approximately 20 minutes to complete the pre-assessment.
- Please give me your pre-assessment when you have finished.



# Pre-Program Assessment Debriefing

- *How did you feel about the pre-program assessment questions?*
- *Were the questions easy or difficult? Why or Why not?*

You will receive answers to the questions after you complete the post-test at the end of today's training.

# PrEP Training for Health Care Providers

This training is for HIV healthcare providers and based on approved national guidelines, namely:

- Implementation Framework & Guidance for Pre-Exposure Prophylaxis of HIV Infection
- Zambia Consolidated Guidelines For Prevention And Treatment Of HIV Infection
- The National HIV/AIDS Strategic Framework 2017-2021

# Module 1

1

PrEP Basics

# Module 1 Learning Objectives

**After completing Module 1, participants will be able to:**

- Define PrEP.
- Differentiate PrEP from PEP and ART.
- Describe the need for PrEP.
- Identify people at risk and people at substantial risk for HIV infection.
- Identify key populations (KP) for PrEP
- Explain the relationship between PrEP effectiveness and adherence.
- State key reasons why PrEP is needed.
- Specify the PrEP regimens as approved in National Guidelines\*
- Identify concerns regarding the implementation of PrEP.
- Explain the risks and benefits of PrEP.



# Module 1 Learning Objectives, cont.

**After completing Module 1, participants will be able to:**

- State key reasons why PrEP is needed.
- Specify the PrEP approved regimens
- Identify concerns regarding the implementation of PrEP.
- Explain the risks and benefits of PrEP.



# Introduction

- **HIV prevention needs change** during a person's lifetime.
- **Combination prevention** is a mix of biomedical, behavioral, and structural interventions that decrease risk of HIV acquisition.
  - Combining approaches may result in greater impact than using single interventions alone.
- Antiretroviral drugs (ARVs) used as PrEP provide an important ***additional prevention tool***.

# Combination Prevention

## Structural

- Policies
- Laws
- Regulatory environment
- Culture
- Tradition
- Social cash transfers
- Gender Inequalities

## Behavioral

- Education
- Counselling
- Stigma and discrimination reduction
- Risk reduction
- Adherence interventions

## Biomedical

- HIV testing
- Condoms
- VMMC
- eMTCT
- Treatment of STIs
- ARV
  - Antiretroviral therapy for prevention (ART)
  - Pre-Exposure Prophylaxis (PrEP)
  - Post-Exposure Prophylaxis (PEP)

# Question

- *What is Pre-Exposure Prophylaxis (PrEP)?*





# Pre-Exposure Prophylaxis (PrEP)

**PrEP** is the use of ARV drugs by HIV-uninfected persons to prevent the acquisition of HIV before exposure to HIV.

Pre

- Before

Exposure

- Activity that can lead to HIV infection

Prophylaxis

- Prevention

# Question

- *What is Post-Exposure Prophylaxis (PEP)?*



# Post-exposure Prophylaxis (PEP)

**Post-exposure prophylaxis (PEP)** is a short-term antiretroviral medication to reduce the likelihood of HIV infection after potential exposure to body fluids containing HIV, e.g. occupationally or through sexual intercourse. For PEP to work well, one must start PEP as soon as possible after the exposure and no later than 72 hours after exposure. PEP should be continued for 28 days after the exposure.

# Questions

1. *What are some similarities and differences between Pre-Exposure Prophylaxis (PrEP) and Post-Exposure Prophylaxis (PEP)?*
2. *What are the main differences between ART and PrEP?*



# Comparing PrEP (*Pre-Exposure Prophylaxis*) and PEP (*Post-Exposure Prophylaxis*)

## What's the same?

Both are used by HIV uninfected persons

Both use ARVs to prevent HIV acquisition

Both are available from a clinical provider by prescription

Both are effective when taken correctly and consistently

## What's different?

PrEP is started BEFORE potential exposure and PEP is taken AFTER exposure

PEP is taken for 28 days only. PrEP requires ongoing use as long as HIV risk exists

# Questions

1. *What are some similarities and differences between Pre-Exposure Prophylaxis (PrEP) and Post-Exposure Prophylaxis (PEP)?*
2. *What are the main differences between ART and PrEP?*



# Differences Between ART and PrEP

- **HIV treatment requires adherence to life-long therapy** with consistent, fully-suppressive dosing.
- **PrEP is needed during “*periods*” of high HIV risk.**
  - **Both ART and PrEP require optimal adherence.**
  - Individuals taking PrEP require ongoing risk assessment and PrEP can be discontinued if they:
    - acquire HIV infection.
    - are no longer at substantial risk for HIV infection.
    - decide to use other effective prevention methods.
- **Motivation for adherence is different:** ART is taken by HIV-infected persons to remain healthy and prevent onward transmission, while PrEP is taken by HIV uninfected persons who are largely healthy, to prevent acquisition of infection.

# Why We Need PrEP

- There are already several effective HIV prevention interventions (e.g. condoms, VMMC, HIV testing).
  - However, there were more than 46 000 new infections in 2016.
  - HIV incidence among key and vulnerable populations remains high, as defined by the NASF 2017-2021
- PrEP provides an additional prevention intervention to be used together with existing interventions (e.g. condoms). PrEP is not meant to replace existing interventions.



# Local HIV Epidemiology

- Most new infections are happening amongst *adolescent girls and young women* making these the populations appropriate target for PrEP.
- In *Zambia* there are *46 000* new infections annually.

# Question

- *Who are Key Populations (KPs) in Zambia?*



# Small Group Activity

- Find this information in your participant manuals and read it: ARVs Used in PrEP Trials; iPrEx Study, PROUD: Immediate vs. Deferred PrEP; ANRS IPERGAY; Partners PrEP Demonstration project; Key HIV PrEP Trials table; Effectiveness and Adherence in Trials. Do not read beyond this point.
- Then discuss these questions with your small group:
  - From these studies, what can you conclude about the effectiveness of PrEP?
  - When was PrEP found to be most effective (in what circumstances)?
- You will have 10 minutes to work.

# Evidence PrEP Works

- PrEP efficacy was measured in:
  - 11 randomized control trials (RCT) comparing PrEP with placebo.
  - 3 RCTs comparing PrEP with no PrEP (e.g. delayed PrEP or ‘no pill’).
  - 3 observational studies.
- PrEP was found to be effective in reducing HIV acquisition.
  - PrEP was most effective in studies with high adherence.
  - Quantifiable drug in plasma increased the efficacy estimates to 74% – 92%.

# PrEP Efficacy Depends on Adherence

- **PrEP works when taken as prescribed!**
- Trials where PrEP use was more than 70% demonstrated the highest PrEP effectiveness (risk ratio = 0.30, 95% confidence interval: 0.21–0.45,  $P < 0.001$ ) compared with placebo.<sup>1</sup>
- As the graph that you studied shows, the higher the percentage of participant samples that had detectable PrEP drug levels, **the greater the efficacy.**

<sup>1</sup> Fonner VA, Dalglish SL, Kennedy CE, et al. Effectiveness and safety of oral HIV pre-exposure prophylaxis (PrEP) for all populations: A systematic review and meta-analysis. *Aids*. May 5 2016.

# Question

- *How would you define **adherence**?*



# Defining Adherence

- **Adherence is key to the success of PrEP use. Assisting the client to develop an adherence plan that includes linkage of drug uptake to a daily routine. Adherence counselling should be a continuous process.**

# Defining Adherence

- **Adherence to drug(s)** means that an individual is taking prescribed medications *correctly and consistently*, it involves taking the correct drug:
  - in the correct dose,
  - at a consistent frequency (number of times per day), and
  - at a consistent time of day.
- **Adherence with follow-up** means patients attend *all* scheduled clinical visits/procedures, including:
  - Clinic and lab assessments.
  - Drug collection/repeat prescription.



# Summary

**PrEP works when taken  
CORRECTLY and CONSISTENTLY.**

# ARVs Recommended for Oral PrEP

- The WHO recommends that oral PrEP regimens should contain Tenofovir Disoproxil Fumarate (TDF).
- According to the WHO, the following regimens should be considered for use as PrEP<sup>1</sup>:

Combined tablet of Tenofovir Disoproxil Fumarate (TDF) 300 mg / Emtricitabine (FTC) 200 mg  
PO Daily

Combined tablet of Tenofovir Disoproxil Fumarate (TDF) 300 mg / Lamivudine (3TC) 300 mg /  
PO daily

- TDF in combination with Emtricitabine (FTC) has been approved as the preferred regimen by the Ministry of Health.
- However, if FTC is not available, TDF in combination with Lamivudine may be used for PrEP.

# PrEP Side Effects

- About 10% of people who start PrEP will have some short-term, mild side effects. Side effects may include:
- **Side effects may include:**
  - Gastrointestinal symptoms (diarrhoea, nausea, decreased appetite, abdominal cramping or flatulence).
  - Dizziness or headaches

# PrEP Side Effects

- Side effects are usually mild and resolve without stopping PrEP. Typically, these symptoms start in the first few days or weeks of PrEP use and last a few days and almost always less than one month.

# Will PrEP users engage in more risk behaviors?

- Will PrEP encourage people to use condoms less often or to have more sexual partners – i.e. “risk compensation”?
  - There was **no** evidence of this in clinical trials.
  - The PROUD study showed that for participants who were at high risk before initiating PrEP, **sexual behavior remained unchanged** whether or not participants received PrEP.

# Will PrEP lead to more HIV drug resistance (HIVDR)?

- HIVDR in PrEP users was **rare** in clinical trials!
  - HIVDR occurred mostly in cases where the person had undiagnosed HIV infection at the time of starting PrEP.
- When adherence to PrEP is high and HIV seroconversion does not occur, HIVDR will not occur.
- If adherence is suboptimal and HIV infection occurs while on PrEP, there can be a risk of HIVDR.
  - HIVDR can be monitored in individuals who become HIV-positive while on PrEP using a plasma specimen or dried blood spot specimen prepared from venous or capillary whole blood.
  - Blood collection should be done before the individual initiates ART.
- Optimal adherence to PrEP is crucial.
  - Health providers **must** support and monitor adherence and teach PrEP users to recognize signs/symptoms of acute HIV infection.

# Questions

1. *Does PrEP protect against other STIs?*
2. *What can people do to protect themselves against STIs while they are taking PrEP? What should the package of prevention services include?*



# Does PrEP protect against other STI?

- Only condoms protect against STI and pregnancy.
- PrEP protects against HIV and also against herpes simplex virus type 2 in heterosexual populations.
- PrEP does **NOT** protect against syphilis, gonorrhea, chlamydia, or human papilloma virus (HPV).
- PrEP should be provided within a package of prevention services, including STI screening and management, risk reduction counseling, condoms, contraceptives, etc.



# Module 1 Summary

## What we know about PrEP:

- PrEP can be used by HIV uninfected persons to **reduce** the risk of HIV acquisition.
- Daily oral PrEP with TDF- containing regimens is currently recommended.
- PrEP should be taken as an *additional* prevention intervention.
- PrEP is **effective** if taken correctly and consistently.
- PrEP can be used by at risk populations
- PrEP is **safe** and has minimal side effects.

# MORNING BREAK



# Module 2

2

PrEP Screening and Eligibility

# Module 2 Learning Objectives

After completing Module 2, participants will be able to:

- Name the 8 main eligibility criteria for PrEP.
- Use the standard medical screening form for PrEP eligibility and substantial risk.
- Name the contraindications for PrEP.
- Explain how to exclude acute HIV infection.



# WHO Recommendations

Oral PrEP containing TDF should be offered as an additional prevention choice for people at *substantial risk* of HIV infection as part of combination HIV prevention approaches.<sup>1</sup>

<sup>1</sup> WHO (2016) Consolidated guidelines on the use of antiretroviral drugs for treating and preventing HIV infection.2016

# Questions

- *Who should receive PrEP?*
- *What are the eligibility criteria for initiating PrEP?*



# Eligibility for PrEP

## Eligibility criteria include:

- Test HIV Negative at health facility
- No suspicion of acute HIV infection
- At substantial risk\* of HIV infection
- Able to attend regular 3 month reviews and HIV testing
- Able to concomitantly apply other prevention methods such as barriers to prevent the transmission of other STIs
- Creatinine clearance (eGFR) >60ml/min\*\*
- Willing to stop taking PrEP when no longer eligible
- Interested in PrEP and willing to be adherent

\* Defined below

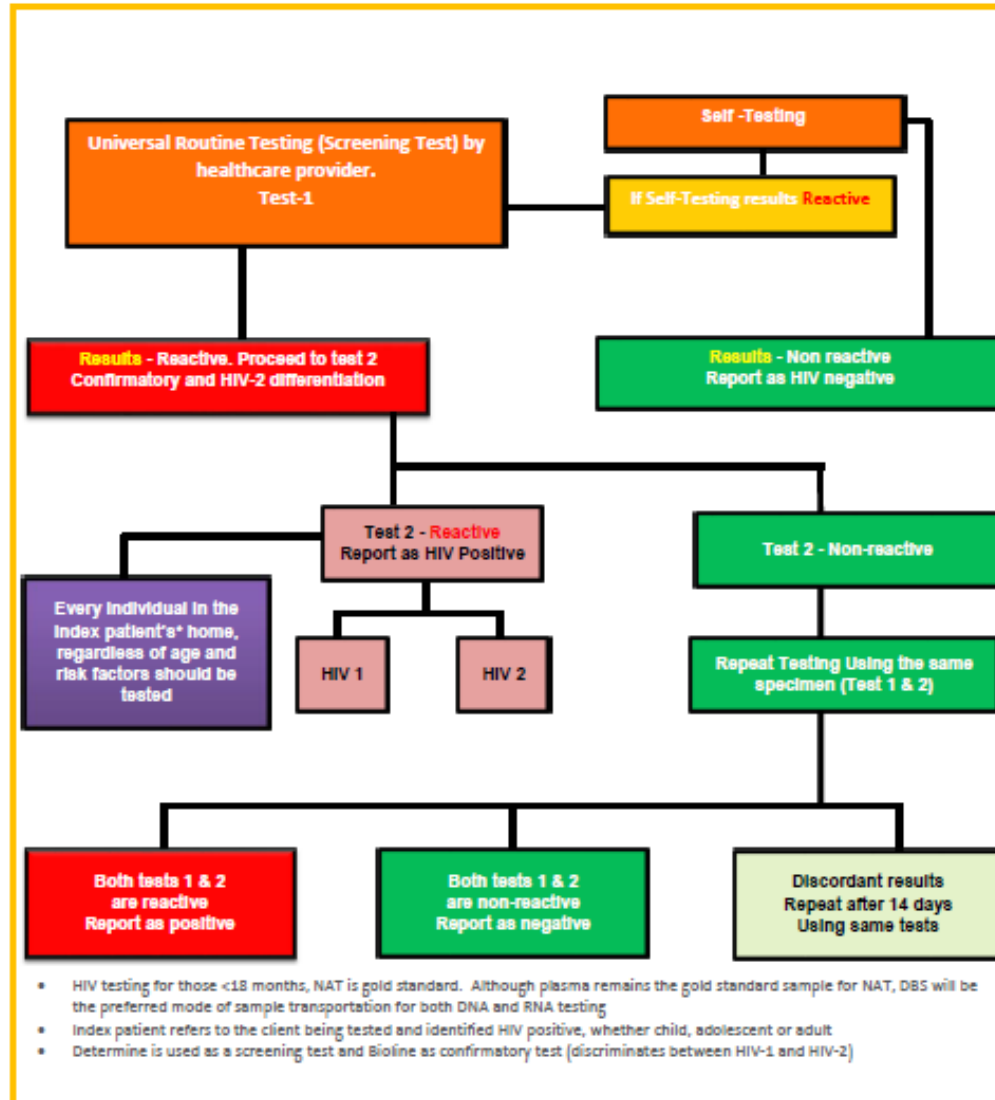
\*\* eGFR: estimated glomerular filtration rate. Waiting for creatinine result should not delay initiation of PrEP

# Exclude HIV infection before starting PrEP

- PrEP is a prevention intervention for people who are HIV uninfected.
- All persons at substantial risk for HIV and who may be eligible for PrEP should be offered HIV testing prior to PrEP initiation
- HIV testing must be done using national guidelines and algorithms.
  - Ideally use rapid HIV tests at point of care.
  - Promptly link clients who test HIV positive to HIV treatment and care services.



# National HIV Testing Algorithm



# Question

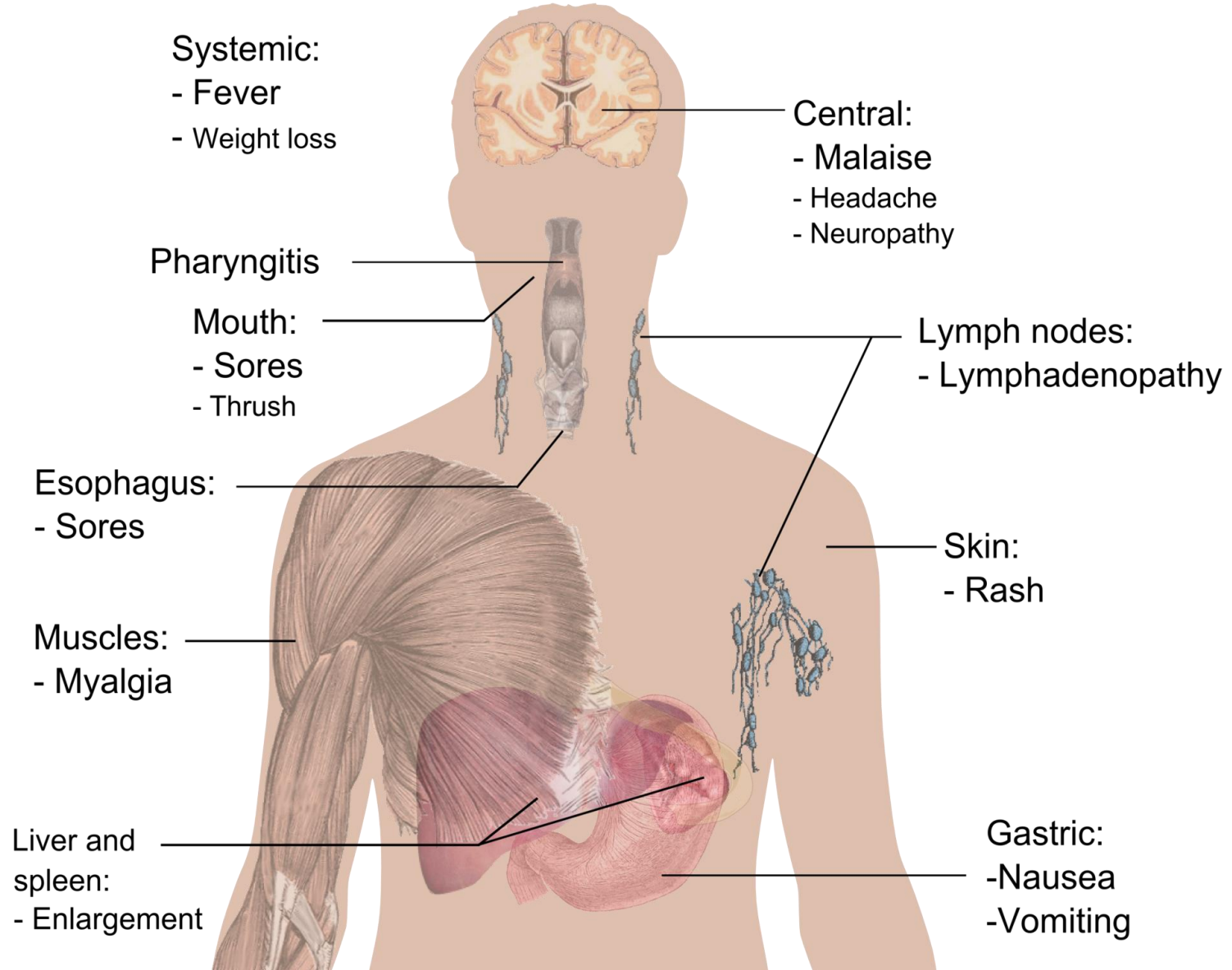
- *What is acute HIV infection?*



# Acute HIV Infection

- Acute HIV infection (AHI) is the **early phase of HIV disease** that is characterized by an initial burst of viremia.
- AHI infection develops **within two to four weeks** after someone is infected with HIV.
- Approximately 40% to 90% of patients with AHI will experience **“flu-like” symptoms**.
  - These symptoms are not specific to HIV, they occur in many other viral infections.
  - Remember that some patients with AHI can be asymptomatic.
- The figure on the next slide depicts some of the presenting signs and symptoms of AHI.
- Do **NOT** start PrEP in clients with suspected AHI.

# Main symptoms of Acute HIV infection



# Question

- *Why must you diagnose for acute HIV infection?*



# Diagnosis of Acute HIV Infection

- During AHI, antibodies might be absent or be below level of detection.
  - Serological testing using rapid test might be negative.
- AHI can be diagnosed using “direct” viral tests like HIV RNA or HIV antigen testing.
- In the absence of HIV RNA and antigen testing, PrEP should be deferred for four weeks if AHI is suspected.
  - Repeat HIV serological test after four weeks to reassess eligibility.

# Question

- *Who is at substantial risk for HIV infection?*



# Substantial risk for HIV infection (based on history in the past six months)

- Client who is sexually active in a high HIV prevalence population (either in the general population or key population group) **PLUS** reports **ANY** of the following in the past six months:
  - Vaginal or anal intercourse without condoms with more than one partner, OR
  - Sexually active with a partner who is known to be HIV positive or at substantial risk of being HIV positive, OR
  - History of an STI (based on lab test, syndromic STI treatment, self-report), OR
  - History of use of post-exposure prophylaxis (PEP)
- OR
- Client who reports history of sharing of injection material/equipment with another person in the past six months.
- OR
- Client who **reports having a sexual partner** in the past six months\* who is HIV positive **AND** who has not been on effective HIV treatment.

*\*On ART for less than six months, or has inconsistent or unknown adherence*



# Small Group Brainstorm

- Close your participant manuals. With your small group, brainstorm a list of questions to screen for substantial risk.
- Please keep in mind that you must ask about the person's sexual behaviors, their partners' sexual behaviors, issues with serodiscordant couples, and other aspects of a person's situation, for example their current life circumstances.
- Choose one group member to record your questions on a sheet of notebook paper.

# Small Group Brainstorm

- When you have finished your brainstorm, find the list of sample screening questions in your manuals. Compare your brainstormed questions to this list. Make a note of any types of questions you missed. Also note any questions on your list that do not appear in the manual.
- You will have 15 minutes to work.

# Screening for Substantial Risk

- Screening questions should be **framed in terms of people's behavior** rather than their sexual identity and should **refer to a defined time period (six months, etc.)**.
- It is important for PrEP providers to be **sensitive, inclusive, non-judgmental, and supportive**.
- Be careful **not to develop** a screening process that might discourage PrEP use.

# General Screening Questions

Consider PrEP if a client from a high prevalence population or in a high prevalence setting answers yes to any of the following questions:

## **“In the past six months,:**

- “Have you had sex with more than one sexual partner?”
- “Have you had sex without a condom?”
- “Have you had sex with people whose HIV status you do not know?”
- “Are any of your partners at risk of HIV?”
- “Have you had sex with a person who has HIV?”

# Serodiscordant Couples

PrEP can protect the HIV uninfected partner in a heterosexual serodiscordant relationship with an HIV-infected partner if:

- The partner with HIV has been taking ART for less than six months.
  - ART takes six months to suppress viral load.
  - In studies of serodiscordant couples, PrEP has provided a useful bridge to full viral suppression during this time.
- The uninfected partner is not confident of the HIV-infected partner's adherence to treatment or has other sexual partners besides the partner on treatment.
- The uninfected partner is aware of gaps in the HIV- infected partner's treatment adherence or the couple is not communicating openly about treatment adherence and viral load test results.

# For a Person Who Has a Partner with HIV

The following questions will help to ascertain whether that person would be a good candidate for PrEP:

- “Is your partner taking ART for HIV?”
- “Has your partner been on ART for more than six months?”
- “Do you discuss your partner’s adherence to HIV treatment every month?”
- “Do you know your partner’s last viral load? What was the result? And when was it done?”
- “Do you desire having a child with your partner?”
- “Are you and your partner consistently using condoms?”

# Additional Factors to Ask About

“Are there aspects of your situation that may indicate higher risk for HIV? Have you....:

- “Received money, housing, food or gifts in exchange for sex?”
- “Been forced to have sex against your will?”
- “Been physically assaulted, including assault by a sex partner?”
- “Taken PEP to prevent HIV infection?”
- “Had a sexually transmitted infection (STI)?”
- “Injected drugs or hormones using shared equipment?”
- “Used recreational/psychoactive drugs?”
- “Been required to leave your home?”
- “Moved to a new place?”
- “Lost your job?”
- “Had less than 12 years schooling or left school early?”

# Creatinine and Estimated Creatinine Clearance

- TDF can be associated with a small decrease in estimated creatinine clearance (eGFR) early during PrEP use and usually this does not progress.
- PrEP is not indicated if eGFR\* is  $< 60\text{ml/min}$ .

\*eGFR: estimated glomerular filtration rate using Cockcroft-Gault equation:

Estimated CrCl =  $[140 - \text{age (years)}] \times \text{weight (kg)} \times f$  where  $f=1.23$  for men and  $1.04$  for women Serum creatinine ( $\mu\text{mol/L}$ )



# Online Cockcroft-Gault Calculator

## Creatinine Clearance Estimate by Cockcroft-Gault Equation ← Share

**Input:**

Sex  Male (1)  
 Female (0.85)

Age  yr

Serum Creat  mg/dL

Weight  kg

**Result:**

Creat Clear  mL/min

Decimal Precision:  2

**Formula** **Notes** **References**

$$\text{CreatClear} = \text{Sex} * ((140 - \text{Age}) / (\text{SerumCreat})) * (\text{Weight} / 72)$$

<http://reference.medscape.com/calculator/creatinine-clearance-cockcroft-gault>

# Question

- *Is PrEP safe during pregnancy?*



# PrEP use During Pregnancy

- TDF appears to be safe in pregnant women, however, evidence comes from studies of HIV infected women on ART.
- Among HIV uninfected pregnant women, evidence of TDF safety comes from studies of hepatitis B (HBV) mono-infected women.
- PrEP benefits for women at high risk of HIV acquisition appear to outweigh any risks observed to date.
- Zambia National Guidelines\* recommends continuing PrEP during pregnancy and breastfeeding for women at substantial risk of HIV.
  - There is however a need for continued surveillance for this population group.

# Willingness to Use PrEP as Prescribed

- Education and counseling is provided to support clients to make an informed choice about PrEP.
- Clients should not be coerced into using PrEP.

# Eligibility Criteria Recap

- Test HIV Negative at health facility
- No suspicion of acute HIV infection
- At substantial risk\* of HIV infection
- Able to attend regular 3 month reviews and HIV testing
- Able to concomitantly apply other prevention methods such as barriers to prevent the transmission of other STIs
- Creatinine clearance (eGFR) > 60ml/min\*\*
- Willing to stop taking PrEP when no eligible
- Interested in PrEP and willing to be adherent

# LUNCH



# Standard PrEP Screening Form

- In the brainstorming session, we identified what types of questions you must ask in order to screen for PrEP eligibility.
- Use of a standard form can ensure that screening is done in a consistent manner and is well documented.
- Please find the Pre-Exposure Prophylaxis (PrEP) Initial form in your participant manuals.

# Small Group Clinical Scenarios

- Read the clinical scenario assigned to your small group.
- Then discuss the scenario questions.
- Refer to the PrEP Initial Form during your discussion as needed.
- You will have 10 minutes to work.



# Clinical Scenario 1

Mumba is a 22 year-old man who presents at the clinic because he is interested in starting PrEP. He reports using condoms sometimes during sex with his HIV-positive male partner. His partner is healthy and has been on ART for 4 years. His most recent viral load from “a few months ago” was reported as 1200 copies/mL. Their last unprotected intercourse was last week. Mumba is in good health and is taking no medications. His rapid HIV antibody test today is negative.

- Is Mumba a candidate for PrEP?
- If so, what did you consider in order to determine eligibility?

# Clinical Scenario 2

Lungowe is an 18 year-old woman who presents at the clinic because she feels sick and is afraid she might have HIV. She reluctantly explains that, during the past year, she has been having sex for money or gifts in order to support her two children. Some of her partners have used condoms and others have not. She does not know if her partners have HIV. Lungowe reports that she has been feeling run down and sick for the past few weeks. Her rapid HIV antibody test today is negative.

- Is Lungowe a candidate for PrEP?
- If so, why?
- What other information would you need in order to determine eligibility?

# Clinical Scenario 3

Mutinta, a 30 year-old wife and mother, presents at the clinic because she has heard that she can get drugs that will prevent her from getting HIV. She suspects that her husband has been injecting drugs, as he has needle marks on his arms. Mutinta is afraid that her husband might have HIV and that he will infect her. She reports that her husband has not been tested. Mutinta's rapid HIV antibody test today is negative.

- Is Mutinta a candidate for PrEP?
- If so, why?
- What other information might you need in order to determine eligibility?

# Clinical Scenario 4

Masauso is a 25 year-old man who presents at the clinic seeking treatment for “blisters.” He reports that, during the past several days, he has had a few painful blisters around his mouth and on his genitals. He declines to report his sexual activity; he says he is a married man and faithful to his wife. He asks if he can take just one pill for the blisters here at the clinic, so that his wife or neighbors do not find out that he is taking pills. Masauso does not want to take any medications ongoing, as his neighbors or church might find out and conclude that he has HIV. He declines to take an HIV test.

- Is Masauso a candidate for PrEP?
- Why?

# AFTERNOON BREAK



# Trainer Role-play Debrief

- Based on the role-play, how would you complete Section 6 of the screening tool? What other information would you need to gather in order to determine eligibility?
- What was most challenging about this screening?
- How did the clinician handle the challenges?
- What other questions or comments do you have about the role-play?

# Screening Role-play 1

- Find Screening Role-play Scenario 1 in your manuals.
- Decide who will play the clinician and who will play the client.
- Practice a brief role-play. The client should answer using the information in Screening Role-play Scenario 1 in your participant manual.
- The clinician should use the screening tool and complete it as if he/she were interviewing a real client. Start with Section 2 of the form.
- As you are practicing, I will observe and choose a pair to perform. I will not tell you which pair I choose, so everyone must be prepared to perform.
- You will have 15 minutes to work.

# Screening Role-play 1 Debrief

- Based on the role-play, how would you complete Section 6 of the form? What other information would you need in order to determine eligibility?
- What did you learn by doing these role-plays?
- What worked best? Why?
- What was most challenging? Why?
- How could you address the challenges? What strategies would you use?



# Screening Role-play Performance Debrief

- What challenges did the clinician encounter and how did she/he handle them?
- What did the clinician do well?
- What could the clinician improve next time around?

# Screening Role-play 2

- Find Screening Role-play Scenario 2 in your manuals.
- Participants who played the clinician for Role-play Scenario 1 should play the client; those who played the client should play the clinician.
- Practice a brief role-play. The client should answer using the information in Screening Role-play Scenario 2 in your participant manual.
- The clinician should use the screening tool and complete it as if he/she were interviewing a real client. Start with Section 2 of the form.
- As you are practicing, I will observe and choose a pair perform. I will not tell you which pair I choose, so everyone must be prepared to perform.
- You will have 15 minutes to work.

# Screening Role-play 2 Debrief

- Based on the role-play, how would you complete Section 6 of the form? What other information would you need in order to determine eligibility?
- What did you learn by doing these role-plays?
- What worked best? Why?
- What was most challenging? Why?
- How could you address the challenges? What strategies would you use?

# Module 2 Summary

## PrEP Eligibility, Screening, Side Effects, and Contraindications

- Providers should *inform* and *counsel* potential PrEP users and *conduct an individualized risk assessment*.
- **Eligibility for PrEP includes:**
  - Test HIV Negative at health facility
  - No suspicion of acute HIV infection
  - At substantial risk\* of HIV infection
  - Able to attend regular 3 month reviews and HIV testing
  - Able to concomitantly apply other prevention methods such as barriers to prevent the transmission of other STIs
  - Creatinine clearance (eGFR) >60ml/min\*\*
  - Willing to stop taking PrEP when no eligible
  - Interested in PrEP and willing to be adherent

# Module 2 Summary Cont

## **PrEP Eligibility, Screening, Side Effects, and Contraindications**

- PrEP screening questions should be framed in terms of a person's behavior.
- Side effects in clinical trials were rare and when they occurred they were mild.
- **Contraindications for PrEP include:**
  - Current or suspected HIV infection
  - Renal impairment as defined by estimated creatinine clearance of  $<60$  ml/min

# Module 3

**3**

**Initial and Follow-up PrEP Visits**

# Module 3 Learning Objectives

**By the end of Module 3, participants will be able to:**

- Specify the procedures for the initial PrEP visit.
- Demonstrate knowledge of national HTS guidelines and national algorithms for HIV testing.
- Describe the rationale and content for brief counseling during the initial PrEP visit.
- Follow the Integrated Next Step Counseling (iNSC) process to counsel clients on sexual health and PrEP adherence.



# Module 3 Learning Objectives, cont.

**By the end of Module 3, participants will be able to:**

- Specify the suggested procedures for follow-up PrEP visits.
- Describe the rationale and content for follow-up counseling at each visit.
- Name typical challenges that facilities and providers may face when implementing PrEP, and strategies for addressing them.





# Initial PrEP Visit: Suggested Procedures

Investigation	Rationale
HIV test (using algorithm in national HTS guidelines)	<ul style="list-style-type: none"> <li>• Assessment of HIV infection status</li> <li>• Symptom checklist for possible acute HIV infection</li> </ul>
Serum creatinine	<ul style="list-style-type: none"> <li>• To identify pre-existing renal impairment</li> </ul>
Hepatitis B surface antigen (HBsAg)	<ul style="list-style-type: none"> <li>• To identify undiagnosed hepatitis B (HBV) infection</li> <li>• To identify those eligible for vaccination against hepatitis B</li> </ul>
RPR	<ul style="list-style-type: none"> <li>• To diagnose and treat syphilis infection</li> </ul>
STI screening	<ul style="list-style-type: none"> <li>• To diagnose and treat STI</li> <li>• Syndromic or diagnostic STI testing.</li> </ul>
Pregnancy testing	<ul style="list-style-type: none"> <li>• To ascertain pregnancy</li> </ul>
Risk reduction counseling	<ul style="list-style-type: none"> <li>• To assess whether the client is at substantial risk for HIV</li> <li>• To assess HIV prevention options and provide condoms and lubricants</li> <li>• To discuss desire for PrEP and willingness to take PrEP</li> <li>• To develop a plan for effective PrEP use, sexual and reproductive health</li> </ul>

# Initial PrEP Counseling

- Initial counseling should focus on:
  - **Increasing awareness** of PrEP as a choice.
  - **Helping the client to decide** whether PrEP is right for them.
  - **Preparing individuals** for starting PrEP.
  - **Explaining** how PrEP works.
  - **Providing basic recommendations.**
  - The importance of **adherence** and **follow-up visits.**
  - **Potential PrEP side effects.**
  - Recognizing symptoms of **acute HIV infection.**
  - Building a **specific plan** for PrEP.
  - Discussing **sexual health and risk reduction measures.**

# Initial PrEP Counseling, cont.

- Assess client's understanding that the protection provided by PrEP is not 100%.
- Explain need for repeat clinic visits and repeat blood tests.
- Additional information for women:
  - PrEP does not affect the efficacy of hormonal contraceptives.
  - PrEP does not protect against pregnancy.
  - PrEP can be continued during pregnancy and breastfeeding.

# PrEP Counseling

During the counseling session “Assess client understanding that **the protection provided by PrEP is not complete, and does not prevent other STIs or unwanted pregnancies, and therefore PrEP should be used as part of a package of HIV prevention services** (inclusive of condoms, lubrication, contraception, risk reduction counseling and STI management).<sup>1</sup>”

# Key Initial Visit Counselling Messaging: PrEP Efficacy

**PrEP works when taken!**

**PrEP reaches maximum effectiveness after seven daily doses for men and twenty-one days for women.**

**PrEP does not prevent most sexually transmitted infections other than HIV.** Condoms used with every act of sexual intercourse provides some protection against many of these infections.

**PrEP does not prevent pregnancy.** Use effective contraception unless you want pregnancy.

**PrEP is safe.**

# Key Initial Visit Counselling Messaging: Supporting Adherence

Taking PrEP each day is easiest if you make taking the tablets a daily habit, linked to something else that you do every day without fail.

If you forget to take a tablet, take it as soon as you remember.

PrEP tablets can be taken any time of day, with food or without food.

PrEP is safe and effective even if you are taking hormonal contraceptives, sex hormones or non-prescription drugs.

- Drinking alcohol will not affect the safety or effectiveness of PrEP. But drinking alcohol could make you forget to take the PrEP tablets.

# Small Group Brainstorm

- Close your participant manuals.
- With your small group, you will brainstorm one of these questions:
  - 1) What are some common reasons for low adherence? Remember to include individual, medication, and structural reasons.
  - 2) What can providers do in order to promote and support adherence? Include counseling and programmatic strategies.
- Choose one group member to record your questions on a sheet of notebook paper.
- You will have 10 minutes to work.

# Common Reasons for Low Adherence to ART

## Individual Factors

- Forgetting doses
- Being away from home
- Changes in daily routines
- Depression or other illness
- Limited understanding of treatment benefits
- Lack of interest or desire to take the medicines
- Substance or alcohol use
- Absence of supportive environment
- Fear of stigma and discrimination

## Medication Factors

- Adverse events
- Complexity of dosing regimens
- Pill burden
- Dietary restrictions (PrEP will require taking just one tablet daily and there are no dietary restrictions)

## Structural Factors

- Distance to health services
- Access to pharmacies
- Long waiting times to receive care and obtain refills
- Burden of direct and indirect costs of care



# Understanding Voluntary vs. Involuntary Non-Adherence

Voluntary Non-Adherence	Involuntary Non-Adherence
<ul style="list-style-type: none"><li>• Not convinced PrEP is needed</li><li>• Does not believe PrEP works or is working</li><li>• Does not like taking pills</li><li>• Has experienced side-effects; wishes to avoid side effects</li><li>• Has experienced stigma while taking PrEP</li></ul>	<ul style="list-style-type: none"><li>• Forgot to take pill</li><li>• Forgot to refill prescription</li><li>• Has competing priorities (e.g. employment, child care)</li><li>• Has difficulty with personal organization and scheduling</li><li>• Affected by depression or other unaddressed mental illness</li><li>• Can not afford PrEP (in settings where clients pay for PrEP services)</li></ul>

# Understanding Voluntary vs. Involuntary Non-Adherence, cont.

Voluntary Non-Adherence	Involuntary Non-Adherence
<ul style="list-style-type: none"><li>• Does not believe it is necessary to take every day</li><li>• Does not want to take with alcohol or other drugs</li><li>• Wishes to avoid others witnessing pill-taking</li></ul>	<ul style="list-style-type: none"><li>• Does not want/has no time/cannot afford to come to health care facility</li><li>• Dissatisfaction with health care provider interactions</li><li>• No place to store medication</li><li>• Unaddressed substance use issues, especially dependence on alcohol or other drugs</li><li>• Insufficient food to take pills</li></ul>

# Adherence: Lessons from ART Programs

- Health providers can **positively influence adherence** by:
  - Facilitating accurate knowledge and understanding of medication benefits and requirements
  - Preparing for and managing side-effects
  - Monitoring of adherence
  - Identifying social support
  - Encouraging medication optimism
  - Building self-efficacy for adherence
  - Developing a routinized daily schedule in which to integrate regular dosing
  - Maintaining an open line of communication with PrEP clients

# Approaches to PrEP Medication Adherence Support

Support Issue:	Provider Options:
<b>Adequate and accurate PrEP knowledge</b>	<ul style="list-style-type: none"><li>• Briefly explain or provide materials about:<ul style="list-style-type: none"><li>○ Indications for medication.</li><li>○ The anticipated risks and benefits of taking medication.</li><li>○ How to take it (one pill per day).</li><li>○ What to do if one or more doses are missed.</li></ul></li><li>• Assess for misinformation.</li></ul>
<b>Preparing for and managing side effects</b>	<ul style="list-style-type: none"><li>• Educate about what side effects to expect, for how long, and how to manage them.</li><li>• Educate about the signs and symptoms of acute HIV infection and how to obtain prompt evaluation and care.</li></ul>
<b>Fostering self-efficacy</b>	<ul style="list-style-type: none"><li>• Foster discussion of personal perception of HIV risks.</li><li>• Recommend or provide medication-adherence tools:<ul style="list-style-type: none"><li>○ Pill boxes</li><li>○ Phone apps, pager, or SMS reminder services</li></ul></li></ul>
<b>Routinized daily schedule</b>	<ul style="list-style-type: none"><li>• Discuss how to integrate daily dose with other daily events and what to do when away from home.</li></ul>

# Approaches to PrEP Medication Adherence Support, cont.

<b>Support Issue:</b>	<b>Provider Options:</b>
<b>Provider support</b>	<ul style="list-style-type: none"><li>• Regularly assess adherence.</li><li>• Ask for a patient self-report.</li><li>• Complete the prescription/visit record.</li><li>• Use new technologies (text reminders).</li><li>• Offer allied clinical support services (e.g., pharmacist).</li></ul>
<b>Social Support</b>	<ul style="list-style-type: none"><li>• Discuss privacy issues for PrEP user.</li><li>• Offer to meet with partners or family members if they are supportive.</li></ul>
<b>Mental health and substance abuse</b>	<ul style="list-style-type: none"><li>• Consider screening for depression or substance-abuse problems.</li><li>• Provide or refer to indicated mental health or substance-abuse treatment and relapse-prevention services.</li></ul>
<b>Population-specific challenges</b>	<ul style="list-style-type: none"><li>• Consider additional medication-adherence support for:<ul style="list-style-type: none"><li>○ Adolescents.</li><li>○ People with unstable housing.</li><li>○ Transgender persons.</li><li>○ Others with specific stressors that may interfere with medication adherence.</li></ul></li></ul>

# Adherence Assessments

- Ask about adherence at each visit:
  - Encourage the PrEP user to self-report in order to understand what they believe about their adherence.
  - Ask about adherence over the last three days (short recall).
  - Avoid judgment to encourage a realistic and honest description.
- Additional methods to monitor adherence:
  - Pharmacy refill history
  - Pill-count
  - Blood level of drugs
  - Hair sample to test drug-level

# Promoting Adherence

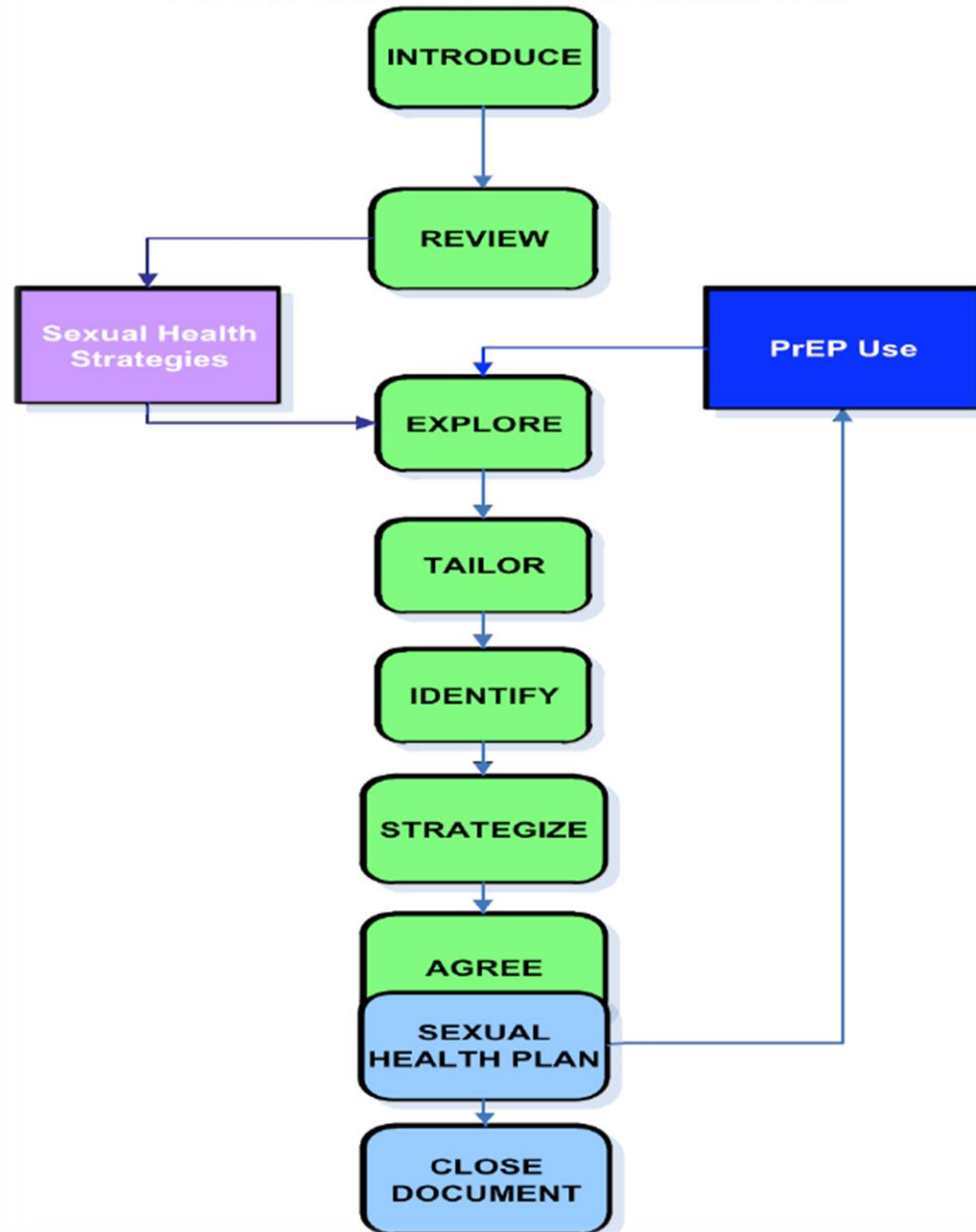
- Several approaches can be used to promote adherence:
  - Motivational interviewing
  - Informed Choice Counseling (ICC)
  - Integrated Next Step Counseling (iNSC)
  - And others

# Integrated Next Step Counseling (iNSC)

- Integrated next step counseling (**iNSC**) was used in the iPrEx OLE study to counsel individuals on sexual health promotion more generally, **with specific emphasis on PrEP adherence for individuals on PrEP.**
- Implementation of iNSC is positioned with delivery of negative HIV test results and serves as pre/post-test HIV counseling as well as adherence counseling in **one brief, targeted, tailored conversation.**



FIGURE 1: iNSC Process Discussion Flow



iNSC Step	Critical Components	Example Prompts
<b>Introduce</b> the counseling session	<ul style="list-style-type: none"> <li>• Explain what you're talking about and why</li> <li>• Get permission to proceed</li> </ul>	<ul style="list-style-type: none"> <li>• <i>I would like to take a few minutes to check in with you about your goals and how to meet them. Is that okay?</i></li> </ul>
<b>Review</b> client's experiences	<ul style="list-style-type: none"> <li>• Ask about what the client already knows about PrEP and how they learned it</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Thank you. Can you tell me a little about what you have heard about PrEP and about your experiences with PrEP?</i></li> </ul>
<b>Explore</b> context of client-specific facilitators and barriers	<ul style="list-style-type: none"> <li>• Use open-ended questions to explore factors or situations that help make pill-taking a little easier; and those that make it harder or a little more difficult</li> </ul>	<ul style="list-style-type: none"> <li>• <i>What seems to make PrEP easy to take or harder to take?</i></li> </ul>
<b>Tailor</b> the discussion to focus on increasing ease of pill-taking	<ul style="list-style-type: none"> <li>• This is a pause to allow the provider/counselor to consider what information gathered in earlier steps is used to tailor the next question</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Let me think for a moment about what you have said.</i></li> </ul>
<b>Identify</b> adherence-related needs	<ul style="list-style-type: none"> <li>• Guide the conversation towards identifying participant perceptions of what would help to best integrate PrEP use into their daily life</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Given everything going on right now, what would need to happen for it to feel a little easier to work this regimen into your daily life?</i></li> </ul>
<b>Strategize</b> with the participant on the next step	<ul style="list-style-type: none"> <li>• Work with participant so that they identify one or a few viable strategies for increasing effective PrEP use</li> </ul>	<ul style="list-style-type: none"> <li>• <i>How could that happen?</i></li> <li>• <i>What are some ideas for how you could approach that?</i></li> </ul>
<b>Agree</b> on which strategy will be tried next	<ul style="list-style-type: none"> <li>• Ask participant which strategy(ies) they are willing to try or continue using</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Of the things that we have talked about, which might you be willing to try between now and the next time we meet?</i></li> </ul>
<b>Close/document</b>	<ul style="list-style-type: none"> <li>• Provide a summary of the discussion and thank the patient</li> </ul>	<ul style="list-style-type: none"> <li>• <i>What I'm hearing is that _____ would really make it feel easier to work PrEP into your life and that you'll give it a try between now and the next time we meet. Thank you for talking with me and I look forward to talking again.</i></li> </ul>

# Clinical Scenario for Role-play

Sombo is a sex worker and is interested in starting PrEP. She uses condoms during sex with commercial clients but not with her long-term partner of unknown HIV status. She had a negative HIV test 6 months ago and wants to avoid HIV infection, as she would like to have a baby with her partner. She is using injectable hormonal contraceptive as she used to forget to take oral contraceptives on a daily basis.

- We will now role-play this scenario. Please observe the role-play and follow along with the table of iNSC steps in your manuals.
- As you observe, think about how you might use iNSC yourself in this scenario.

# Role-play Debrief

- How well did the provider follow the iNSC steps?
- What types of prompts or strategies worked best? Why?
- What were the most challenging aspects of the counseling?
- How did the provider handle the challenges?
- What other questions or comments do you have about iNSC so far?

# MORNING BREAK



# iNSC Role-play 1

- Find iNSC Role-play Scenario 1 in your manuals.
- Decide who will play the provider and who will play the client.
- Practice a brief role-play. The client should answer using the information in iNSC Role-play Scenario 1 in your participant manual.
- The provider should use the iNSC steps and sample prompts as if he/she were counselling a real client.
- As you are practicing, I will observe and choose a pair perform. I will not tell you which pair I choose, so everyone must be prepared to perform.
- You will have 15 minutes to work.

# iNSC Role-play 1 Debrief

- What did you learn by doing these role-plays?
- What worked best? Why?
- What was most challenging? Why?
- How could you address the challenges? What strategies would you use?

# iNSC Role-play Performance Debrief

- How well did the provider follow the iNSC steps?
- What types of prompts or strategies worked best?  
Why?
- What were the most challenging aspects of the counseling?
- How did the provider handle the challenges?
- What could the clinician improve the next time around?



# iNSC Role-play 2

- Find iNSC Role-play Scenario 2 in your manuals.
- Participants who played the provider for Role-play Scenario 1 should play the client; those who played the client should play the provider
- Practice a brief role-play. The client should answer using the information in iNSC Role-play Scenario 2 in your participant manual.
- The provider should use the iNSC steps and sample prompts as if he/she were counselling a real client.
- As you are practicing, I will observe and choose a pair perform. I will not tell you which pair I choose, so everyone must be prepared to perform.
- You will have 15 minutes to work.

# iNSC Role-play 2 Debrief

- What did you learn by doing these role-plays?
- What worked best? Why?
- What was most challenging? Why?
- How could you address the challenges? What strategies would you use?

# Key Initial Visit Consideration: Drug Supply

- Providing an **extra month's supply of medication at the first visit** will assure an adequate supply for daily dosing until the next visit.
- This is important in case the follow-up visit is delayed for any reason.

Patients who have some medication supply in reserve  
tend to show better adherence!

## Provider Checklist for Initial PrEP Visit

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### Provider Checklist for Initial PrEP Visit

- HIV test (using national testing algorithm)**
  - Assessment of HIV infection status
  
- Exclude acute HIV infection**
  - Ask about last potential exposure to HIV
  - Ask/look for 'flu-like' symptoms
  
- Screen for substantial HIV risk**
  
- Serum creatinine (calculate eGFR)**
  - To identify pre-existing renal impairment
  
- Hepatitis B surface antigen (HBsAg) – if available**
  - To identify undiagnosed Hepatitis B (HBV) infection
  - To identify those eligible for vaccination against Hepatitis B
  
- STI screening**
  - Perform syndromic or etiological STI testing
  - Rapid Plasma Reagin test (RPR) for syphilis
  
- Pregnancy test**
  - Ask about last menstrual period (perform pregnancy test if needed)
  
- Conduct risk reduction counseling**
  - Clients will be referred based on specific needs, i.e. social support, risk reduction, gender-based violence programs, etc.
  
- Provide information on PrEP and conduct adherence counseling**
  
- Provide condoms and lubricants (if available)**
  
- Provide (or refer to) reproductive health services (as needed)**
  
- Schedule next appointment (provide appointment card)**

# LUNCH



# PrEP Follow-up Visits

- Clients on PrEP require regular visits with the health provider.
- Programs should decide on the optimal frequency of visits for monitoring PrEP use.
- It is suggested to have a follow-up visit:
  - one month after initiating PrEP, and
  - thereafter every three months.
- Outside regular monitoring visits, clients should also consult if they have severe adverse events or signs/symptoms of AHI.

# Follow-Up PrEP Visit Procedures

Intervention	Schedule following PrEP initiation
Confirmation of HIV-negative status	<ul style="list-style-type: none"><li>• Every three months (consider also testing at one month if HIV RNA or antigen testing was not performed before starting PrEP)</li></ul>
Address side-effects	<ul style="list-style-type: none"><li>• Every visit</li></ul>
Brief adherence counseling	<ul style="list-style-type: none"><li>• Every visit</li></ul>
Estimated creatinine clearance	<ul style="list-style-type: none"><li>• Every visit</li></ul>
	<ul style="list-style-type: none"><li>• Provide STI screening, condoms, contraception as needed.</li><li>• Counsel regarding symptoms of acute HIV infection, and advise client to come back as soon as possible for evaluation if these symptoms occur.</li></ul>

# Repeat HIV Testing

- Repeat HIV testing is needed to inform decisions on whether to continue or discontinue PrEP.
- Repeat HIV testing (using national guidelines):
  - One month after starting PrEP
  - Every three months thereafter
- Remember the limitation of serological tests during AHI in the window period (time from HIV infection to detection of antibodies), and that exposure to ARVs can decrease sensitivity of serological tests.
- Stop PrEP if AHI is suspected.



# Follow-Up PrEP Counseling

- Follow-up counseling should focus on:
  - Checking in on the **current context** of sexual health
  - The patient's **desire to remain on and assessment of continued risk** of PrEP
  - **Facilitators & barriers** to PrEP use
  - Additional **non-PrEP related sexual health protection** strategies (condoms, etc.)
  - **Dosing requirements** for highest protection
  - What to do **if a dose is missed**
  - Common **adherence strategies**
  - Reasons for **ongoing monitoring** while on PrEP
  - How to recognize symptoms of **acute HIV infection**
  - **Side-effects & side-effects management**
  - How to **safely discontinue and restart** PrEP as appropriate

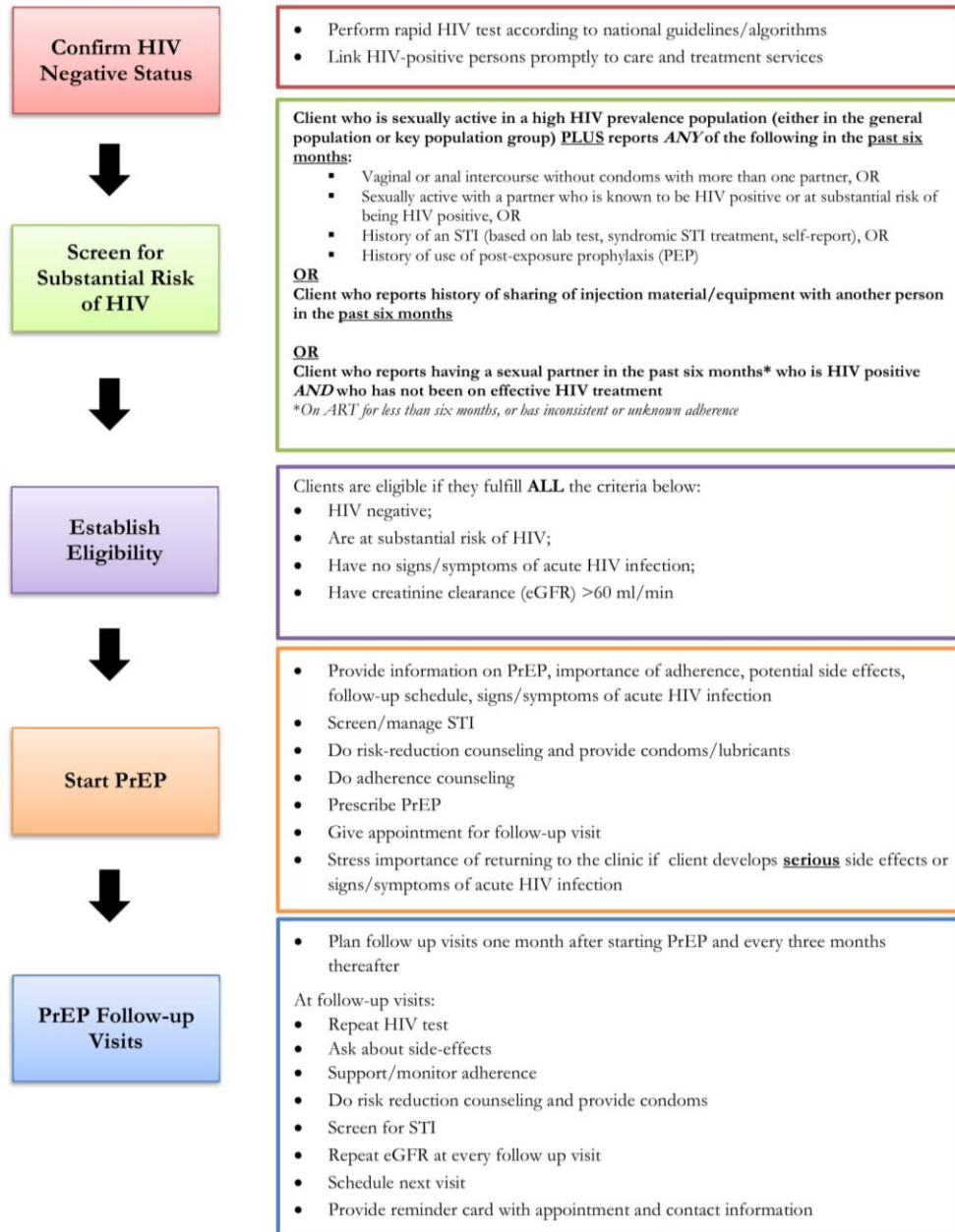
## Provider Checklist for Follow-up PrEP Visits

### Provider Checklist for Follow-up PrEP Visits

- Brief counseling (every visit)**
  - Review/ask about signs and symptoms of acute HIV infection
  - Check on current context of sexual health
  - Desires to remain on PrEP
  - Facilitators & barriers to PrEP use
- Adherence counseling (every visit)**
  - Monitor adherence (recall, pill count, etc.)
  - Brief adherence counseling
  - Discuss importance of effective use of PrEP
- Assessment and management of side effects (every visit)**
  - Ask about and manage side-effects
  - Report any side effects or adverse drug reactions to the District Pharmacist who will complete the pharmacovigilance forms.
- Confirmation of HIV-negative status (recommended frequencies)**
  - Repeat HIV test one month after starting PrEP (especially if HIV RNA or antigen testing was not performed before starting PrEP)
  - Every three months thereafter
- Calculation of estimated creatinine clearance (eGFR) (recommended frequencies)**
  - At every visit
  - OR more frequently if there is history of conditions affecting the kidney (e.g., diabetes, hypertension, or any chronic nephropathy)
- STI screening**
- Risk reduction counseling**
  - Clients will be referred based on specific needs, i.e. social support, harm reduction, gender-based violence programs, etc.
- Provision of condoms and lubricants**
- Provision of contraception (as needed)**
  - Perform pregnancy test if needed
- Provision of follow-up prescription for PrEP**
- Scheduling of next appointment (provide appointment card)**

If a client using PrEP tests positive for HIV, **stop PrEP** and link promptly to treatment and care services. Start suppressive therapy for HIV infection (ART) immediately.

## PrEP Clinical Pathway



# Clinical Scenario for Discussion

Katongo has been on PrEP for the last nine months. At the follow-up visit he is in good health and his repeat HIV test is negative. Katongo reports recently starting a monogamous relationship with a man who tested HIV negative last year and feels he might no longer need PrEP.

*How would you manage this case?*

# Small Group Brainstorm

- In your small group, you will brainstorm responses to these questions:
  - 1) What are some of the challenges you will face when implementing PrEP?
  - 2) What strategies might you use to address these challenges?
- Choose one group member to record your responses on a sheet of notebook paper.
- You will have 15 minutes to work.

# Module 3 Summary

- Prescribe PrEP as part of a comprehensive HIV prevention strategy.
- Confirm a negative HIV test immediately prior to initiating PrEP.
- Ensure there are no contra-indications to PrEP.
- Ensure clients have correct information about PrEP.
- Develop an adherence support plan with the client and monitor adherence at each visit.
- Conduct risk-reduction counseling at each visit.

# AFTERNOON BREAK



# Training Overview

## 4 Monitoring and Managing PrEP Side Effects, Seroconversion, and Stigma



# Module 4 Learning Objectives

**By the end of module 4, participants will be able to:**

- Explain how to manage creatinine elevation.
- List additional causes of creatinine elevation.
- Explain how to manage seroconversion.
- Develop strategies to minimize PrEP stigma.
- Give examples of gaps in knowledge about PrEP.



# Monitoring Creatinine Elevation

- Approximately 1 in every 200 PrEP users may develop an elevation of serum creatinine.
  - Defined as a 50% increase above baseline or an elevation above the normal range.
  - Reminder: Renal impairment is defined as having an estimated creatinine clearance of  $<60$  ml/min.
- Creatinine elevations have usually **reversed** after stopping PrEP.
- It is important to monitor **transient creatinine elevation** and for signs of **chronic or severe renal insufficiency**.

# Question

- *How would you manage increase in creatinine clearance?*



# Managing Creatinine Elevation

- Discontinue PrEP if creatinine elevation is confirmed on a separate specimen and if estimated creatinine clearance decreases to  $<60$  ml/min.
- After PrEP is stopped, creatinine should be checked for another one to three months and PrEP restarted if eGFR returns to  $> 60$  ml/min.
- Additional causes and management of creatinine elevations should be considered if:
  - Creatinine elevations are more than 3x the baseline.
  - Renal function or creatinine elevations do not return to normal levels within three months after stopping PrEP.
  - Creatinine elevations progress at one month or more after stopping PrEP.
- Common causes of chronic or severe renal insufficiency include: diabetes mellitus, uncontrolled systemic hypertension, hepatitis C infection, liver failure, and pre-eclampsia during pregnancy.

# Seroconversion on PrEP

- PrEP works when taken. In clinical trials, the level of protection was strongly correlated with adherence.
- HIV infection can be prevented with consistent use of PrEP.
- HIV seroconversion after prescribing PrEP can occur if PrEP is not used correctly or consistently, or if HIV infection was undiagnosed at the time of PrEP initiation.
- Part of counseling should include information to help PrEP users recognize signs/symptoms of AHI, which should prompt a clinic visit without delay.

# Question

- *How would you manage seroconversion on PrEP?*



# Managing Seroconversion

- If a person using PrEP tests positive for HIV, PrEP should be **stopped immediately** and the person referred for prompt initiation of HIV treatment.
- Transitions from PrEP to HIV treatment without a gap avoid the risk of resurgence in viral load, immunological injury, and secondary transmissions.

# PrEP “Special Situations”

Situation	Recommendation/Follow-Up
Hormonal Contraception	<ul style="list-style-type: none"> <li>PrEP does not affect the efficacy of hormonal contraceptives and hormonal contraceptives do not affect PrEP efficacy.</li> </ul>
Pregnancy and breastfeeding	<ul style="list-style-type: none"> <li>PrEP may be continued during breastfeeding in women who are at substantial risk for HIV acquisition.</li> </ul>
Hepatitis B infection	<ul style="list-style-type: none"> <li>Vaccination is appropriate for people at substantial risk for HBV or HIV infection. PrEP containing TDF is also used to treat Hepatitis B</li> </ul>
Management of Recent HIV Exposure with PEP	<ul style="list-style-type: none"> <li>People who have been exposed to HIV in the past 72 hours should be offered post-exposure prophylaxis (PEP).</li> <li>Zambia National Guidelines* recommend PEP consisting of TDF**+XTC+DTG*** preferably combined with a boosted protease inhibitor, for 28 days (use national guidelines). Alternatively, TDF + XTC + ATV-r*** AZT + 3TC + LPV-r (children&lt;10 years).</li> <li>PEP should be transitioned to PrEP after 28 days if the HIV test remains negative and there is substantial ongoing risk of HIV acquisition.</li> </ul>

\*2018 Zambia Consolidated Guidelines for Prevention and Treatment Of HIV Infection

\*\*For patients with CrCl <50mL/min, replace TDF with AZT

\*\*\*DTG is effective against both HIV 1 and 2 and prevents integration of the viral DNA into the host DNA. It should be avoided in pregnancy and for HIV/TB patients on Rifampicin, the dose of DTG should be 50mg



# Minimizing PrEP Stigma

- Confidentiality is essential in PrEP services.
- People may face stigma if their PrEP use becomes known.
- PrEP use can exacerbate stigma if others mistakenly consider PrEP use to be evidence of irresponsible behavior or mistakenly think that PrEP is HIV treatment.
  - Such stigma will decrease PrEP uptake and adherence among people who would otherwise benefit from it.

Presenting PrEP to your communities as a *responsible choice* that *protects both partners* will increase the impact of PrEP, prevent more HIV infections, and can help reduce stigma.

# Small Group Brainstorm

- With your small group, brainstorm a list of possible strategies to minimize the stigma that your PrEP clients may face.
- Choose one group member to record your ideas on the sheet of flip chart paper.
- You will have 20 minutes to work.

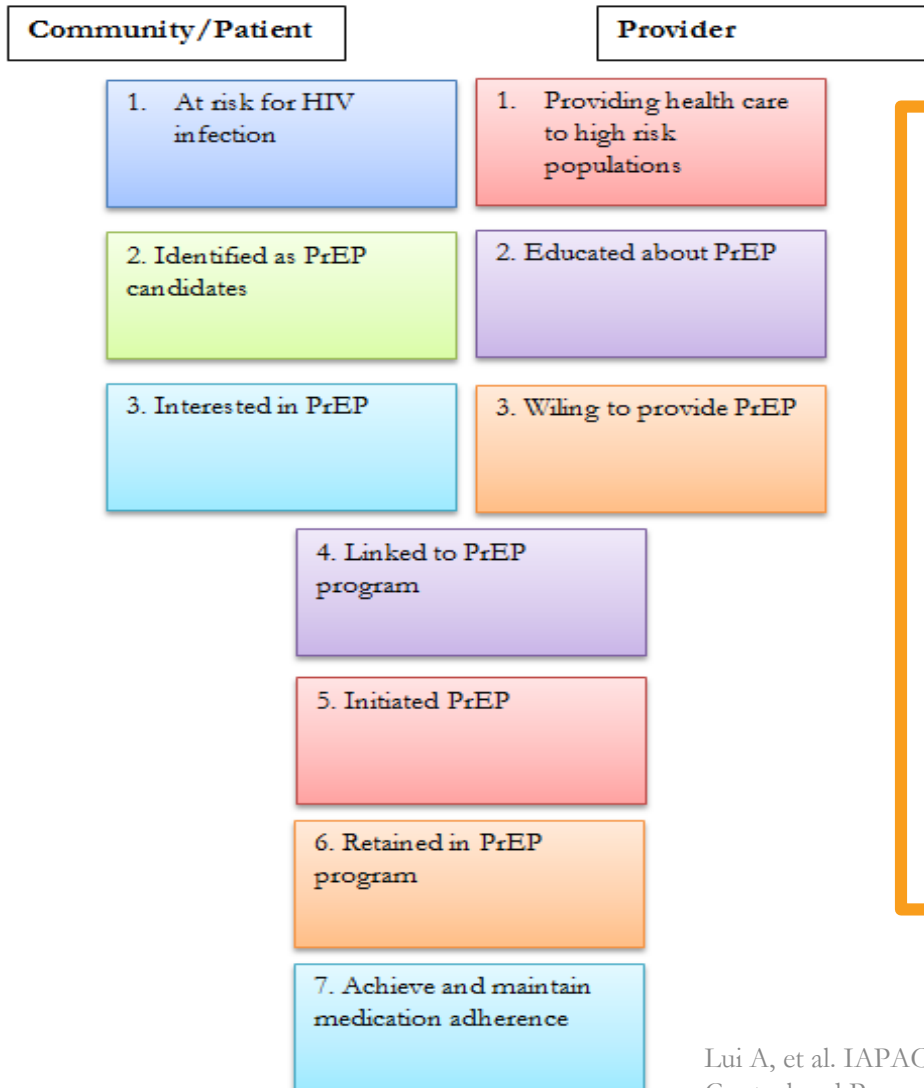
# Current Gaps in Knowledge and Need for Continued Surveillance

- **Current gaps in knowledge related to implementation of PrEP include:**
  - *Renal safety* of FTC/TDF PrEP in people with diabetes mellitus and uncontrolled systemic hypertension has not been evaluated.
  - Although 3TC is equivalent to FTC for HIV treatment, *use of 3TC in combination with TDF for PrEP* has not been studied.
  - *Comparison of daily vs. on-demand PrEP regimens* is still limited.
  - Effectiveness of *on-demand oral PrEP regimens for women* has not been evaluated.
  - Although cases of *clinical HBV rebound* when stopping FTC/TDF PrEP have not been observed among people with current HBV infection in clinical trials, most trials excluded such individuals.
- **Need for continued surveillance:**
  - The benefits of PrEP in women at substantial risk of HIV acquisition appear to outweigh any risks observed to date, however, there is a need for continued surveillance of maternal, pregnancy and infant outcomes to confirm the safety that studies to date suggest.

# PrEP M&E Tools

- You will find sample PrEP M&E Tools at the back of your participant manual:
  - PrEP Initial Form
  - PrEP Follow Up Form
  - PrEP Client Locator Form
  - PrEP Client register
- You will receive further training at your facilities on using and adapting these tools.

# PrEP Cascade



PrEP is more than just a biomedical intervention. Success will also depend on structural and behavioral interventions.

# Module 4 Summary

- PrEP users should be informed about how to recognize signs and symptoms of acute HIV infection.
- If persons using PrEP test positive for HIV, stop PrEP immediately and start ART as soon as possible, without a gap after PrEP is discontinued.
- If confirmation of positive HIV test result is delayed for more than a few hours, transition to fully suppressive ART (three ARVs as per national treatment guidelines) while you wait for confirmation.
- Blood creatinine (eGFR) should be measured before starting PrEP and *at every follow up visit* after PrEP is started.
  - Initiation of PrEP should not be delayed while waiting for creatinine result.

# Question

- *What final questions or concerns do you have about implementing PrEP?*



# Module 5

**5**

**Post-test and Evaluation**



# Training Post-test

- The objective of this post-test is to find out what you know about implementing PrEP and how much your knowledge and skills have improved since the pre-test assessment.
- Results of the pre-program assessment and post-test will help improve future trainings.
- **Remember to write your name on your post-test.**
- You have 15 minutes to complete the post-test.
- You will receive a copy of the correct answers as you leave the training.

# PrEP Specific Competencies

**After completing this training program, participants will be able to:**

- Identify eligible candidates for PrEP.
- Conduct an individualized risk assessment.
- Educate and counsel PrEP candidates and users.
- Conduct clinical and laboratory assessments during the initial PrEP visit.
- Prescribe PrEP.
- Conduct clinical and laboratory assessments during follow-up PrEP visits.
- Review PrEP M&E tools.

# Training Evaluation

- Please take a few minutes to complete this Training Evaluation Form.
- We welcome your honest feedback in order to improve future trainings.
- Your evaluation will be confidential. You do not need to include your name.

# PrEP Resources for Providers

- <http://www.who.int/hiv/pub/arv/arv-2016/en/>
- <http://www.who.int/hiv/topics/prep/en/>
- [http://www.unaids.org/sites/default/files/media\\_asset/UNAIDS\\_JC2764\\_en.pdf](http://www.unaids.org/sites/default/files/media_asset/UNAIDS_JC2764_en.pdf)
- <http://www.prepwatch.org/>
- <http://www.cdc.gov/hiv/risk/prep/>
- Glidden, DV, Amico, KR, Liu AY, et al. Symptoms, side effects and adherence in the iPrEx open-label extension. Clin Infect Dis. 2016;62(9):1172-7.
- Fonner, VA, Dalglish, SL, Kennedy, CE, et al. Effectiveness and safety of oral HIV preexposure prophylaxis for all populations. AIDS 2016;30(12):1973-1983.
- The Fenway Institute. Pre-exposure prophylaxis clinical study data sheet. <http://www.projectinform.org/pdf/prepstudydata.pdf> . Accessed October 5, 2016.
- World Health Organization. Review: Safety of tenofovir PrEP in pregnant and breastfeeding HIV-uninfected women and their infants. <http://emtct-iatt.org/wp-content/uploads/2016/08/WHO-TDF-pregnancy-Lynne-Mofenson.August-21-2016.pdf> . Accessed October 5, 2016.
- <http://www.unaids.org/en/dataanalysis/monitoringandevaluationguidance>

# PrEP Resources for PrEP Users

- <http://www.whatisprep.org>
- <http://www.PleasePrEPMe.org/resources>
- <http://www.iwantprepnnow.co.uk>
- [http://www.cdc.gov/hiv/pdf/risk\\_PrEP\\_TalkingtoDr\\_FINALcleared.pdf](http://www.cdc.gov/hiv/pdf/risk_PrEP_TalkingtoDr_FINALcleared.pdf)
- <https://www.facebook.com/groups/PrEPFacts/>

**Thank you for  
your participation!**

# Module 6

## 6

### PrEP Monitoring and Evaluation Tools and Closing

# Module 6 Learning Objectives

**After completing this session, participants will be able to:**

- Complete the PrEP Initial Form, PrEP Follow-up Form, PrEP Client Locator Form and the PrEP Client register correctly.



# PrEP Initial Form

- Please find the PrEP Initial Form in your participant manuals.
- This form is completed during the initial PrEP screening, for patients who agree to start PrEP.
- The provider must ask questions of the client in order to complete some sections of the form.
- Other sections are completed using test results and information obtained during PrEP screening.

# Practice: PrEP Initial Form

- Find the M&E Practice Scenarios in your manuals.
- Choose one scenario. Decide who will play the provider and who will play the client.
- The participant playing the client should review the synopsis of their character in order to be able to respond appropriately.
- Conduct a brief role-play in which the provider completes the PrEP Initial Form with the client (as if with a real client). Use today's date or other appropriate dates for test dates on the form.
- Then repeat this process for another scenario, with roles reversed.
- You will have approximately 15 minutes to work.

# PrEP Follow-up Form

- Please find the PrEP Follow-up Visits Form in your participant manuals.
- One form per client is used to record information during each follow-up visit.

# PrEP Client Register

- Please find the PrEP Client Register in your participant manuals.
- As each new client starts PrEP, the relevant information is added to this register, and the client's follow-up visits recorded.

# Practice: PrEP Follow-up Visits & Client Register

- Choose a scenario from your previous role-play (PrEP Initial Form). Decide who will play the provider and who will play the client.
- Role-play a brief initial PrEP follow-up visit. The provider should use the Provider Checklist for Follow-up PrEP Visits as a guide. The client should invent appropriate answers for questions about adherence, side effects, signs and symptoms of acute HIV infection, etc. Use the date 1 month from today for the visit date, and other appropriate dates, as needed.

# Practice: PrEP Follow-up Visits & Client Register, cont.

- Repeat this process for another scenario, with roles reversed.
- Then complete the PrEP Follow-up Visits and PrEP Client Register forms (follow-up visit 1) for the “client” that you interviewed. You will each complete your own form.
- You will have approximately 20 minutes to work.

# Question

- *How user friendly are the PrEP M&E Forms?*



# MORNING BREAK





**Thank you for  
your participation!**