



HIV Pre-Exposure Prophylaxis

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1

Faculty Disclosure

I do not have financial or other relationships with the manufacture(s) of any commercial services discussed in this educational activity.



2

Objectives

- Identify patients at risk for HIV acquisition who may benefit from pre-exposure prophylaxis (PrEP)
- Describe steps for prescribing PrEP
- Discuss steps to counsel and provide PrEP to patients at high risk for HIV
- Discuss indications to stop PrEP



3

Ending the HIV Epidemic: A Plan for America

GOAL: HHS will work with each community to establish local teams on the ground to tailor and implement strategies to:

- 75% reduction in new HIV infections in 5 years and at least 90% reduction in 10 years.**
- Diagnose** all people with HIV as early as possible.
- Treat** the infection rapidly and effectively to achieve sustained viral suppression.
- Prevent** new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).
- Respond** quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.

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<https://hiv.gov/prod-v3/s3.amazonaws.com/s3-public/NIAS-2022-2025-2Pager.pdf>

4

Pre-exposure Prophylaxis

PrEP IS AN HIV PREVENTION METHOD IN WHICH PEOPLE WHO DO NOT HAVE HIV INFECTION TAKE A PILL DAILY TO REDUCE THEIR RISK OF BECOMING INFECTED

ONLY PEOPLE WHO ARE HIV-NEGATIVE SHOULD USE PrEP. AN HIV TEST IS REQUIRED BEFORE STARTING PrEP AND THEN EVERY 3 MONTHS WHILE TAKING PrEP.

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<http://aids.gov/hiv-aids-basics/prevention/your-risk/pre-exposure-prophylaxis/>

5

Why PrEP?

50,000
 estimated new HIV infections each year in the US
 No Vaccine or Cure available

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 CDC.gov. PrEP FAQs. Available at <https://www.cdc.gov/hiv/clinicians/prevention/prep.html>. Accessed 12.15.2019.

6

Why PrEP?

Transmission Route	Effectiveness Estimate	Interpretation
Sexual	~99%	Very high levels of adherence to PrEP ensures maximum effectiveness.
Injection drug use	74% - 84%	These estimates are based on tenofovir alone and not necessarily when taken daily. The effectiveness may be greater for the two-drug oral therapy and if used daily.

AETC | 2018 Research & Quality Improvement Program
 CDC.gov. PrEP FAQs. Available at <https://www.cdc.gov/hiv/cdr/cdr/cdr/prevention/prep.html>. Accessed 12.15.2019.

7



JAMA June 11, 2019 Volume 321, Number 22

Final Recommendation Statement

Prevention of Human Immunodeficiency Virus (HIV) Infection: Preexposure Prophylaxis

Recommendations made by the USPSTF are independent of the U.S. government. They should not be construed as an official position of the Agency for Healthcare Research and Quality or the U.S. Department of Health and Human Services.

Population	Recommendation	Grade (What's This?)
Persons at high risk of HIV acquisition	The USPSTF recommends that clinicians offer preexposure prophylaxis (PrEP) with effective antiretroviral therapy to persons who are at high risk of HIV acquisition.	A

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8

- The Centers for Disease Control and Prevention (CDC) recommends all sexually active adult and adolescent patients receive information about PrEP.
- “Any licensed prescriber can prescribe PrEP. Specialization in infectious diseases or HIV medicine is not required. In fact, primary care providers who routinely see people at risk for HIV acquisition should consider offering PrEP to all eligible patients.”




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9

Potential Benefits of PrEP

- Prevent HIV transmission
- Bring more attention to sexual health – proactive / taking control
- Can help resolve “discordance dilemma”
- Decreased anxiety, Increased communication,
- Increased disclosure
- Increased trust
- Increased self-efficacy
- Increased sexual pleasure
- Increased intimacy

AETC Southcentral
Ware NC, et al., JAIDS, April 2012.

10

PrEP Use in the U.S.

Transmission risk group	% with PrEP indications	Estimated no.	(95% CI)
Men who have sex with men, aged 18–59 yrs	24.7	492,000	(212,000–772,000)
Adults who inject drugs, aged ≥18 yrs	18.5	115,000	(45,000–185,000)
Heterosexually active adults, aged 18–59 yrs	0.4	624,000	(404,000–846,000)
Men	0.2	157,000	(62,000–252,000)
Women	0.6	468,000	(274,000–662,000)
Total	—	1,232,000	(661,000–1,803,000)

Smith DK, et al. MMWR 2015;64:1291-95. Sullivan PS, et al. Ann Epidemiol 2018; 28: 833-40.

CDC estimates 100,000 used PrEP in 2017

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11

HIV prevention pill is not reaching most who could potentially benefit – especially African Americans and Latinos

44% of people who could potentially benefit from PrEP are African Americans – approximately 500,000 people...

...but only **1%** of those – 7,000 African Americans – were prescribed PrEP*

25% of people who could potentially benefit from PrEP are Latino – nearly 300,000 people...

...but only **3%** of those – 7,600 Latinos – were prescribed PrEP*

*Prescription data in this analysis limited to those filled at retail pharmacies or mail order services from September 2015 – August 2016; racial and ethnic information not available for one-third of the prescription data

AETC Southcentral
Smith, DK., et al. CROI 2016, March 4-7, Boston, MA, USA

12

FDA approved Oral Medications for PrEP- One pill once a day

- Emtricitabine (F) 200 mg combined with tenofovir disoproxil fumarate (TDF) 300 mg (F/TDF)
- Emtricitabine (F) 200 mg combined with tenofovir alafenamide (TAF) 25 mg (F/TAF)

All preparations are approved to prevent HIV in adults and adolescents who weigh at least 77 pounds



13

FDA approved Intramuscular Preparation for PrEP

- 600 mg of cabotegravir injected into gluteal muscle every 2 months

All preparations are approved to prevent HIV in adults and adolescents who weigh at least 77 pounds



14

Comprehensive HIV Prevention

PrEP is always part of a comprehensive HIV prevention package

- Condoms
- Counseling
- Frequent STD testing and treatment
- Frequent HIV testing



15

Taking a Sexual History

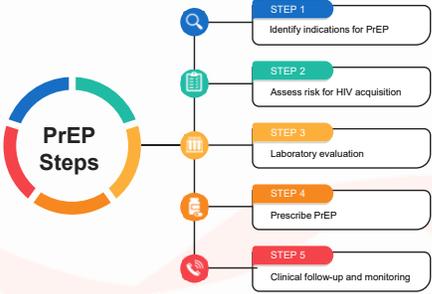


- Make it a normal part of each visit
- The Five “P”s
 - Partners
 - Practices
 - Protection from STDs
 - Past history of STDs
 - Prevention of pregnancy

AETC Southeast | CDC.gov. Available at <https://www.cdc.gov/std/treatment/sexualhistory.pdf>

16

PrEP Steps



- STEP 1**
Identify indications for PrEP
- STEP 2**
Assess risk for HIV acquisition
- STEP 3**
Laboratory evaluation
- STEP 4**
Prescribe PrEP
- STEP 5**
Clinical follow-up and monitoring

AETC Southeast | CDC.gov

17

Step 1: Who Should be Offered PrEP?

	Sexually-Active Adults and Adolescents ¹	Persons Who Inject Drug ²
Identifying substantial risk of acquiring HIV infection	Anal or vaginal sex in past 6 months AND any of the following: <ul style="list-style-type: none"> • HIV-positive sexual partner (especially if partner has an unknown or detectable viral load) • Bacterial STI in past 6 months³ • History of inconsistent or no condom use with sexual partner(s) 	HIV-positive injecting partner OR Sharing injection equipment

All AI recommendations

AETC Southeast | <https://www.cdc.gov/hiv/pdf/risk/prep/odc-hiv-prep-guidelines-2021.pdf>

18

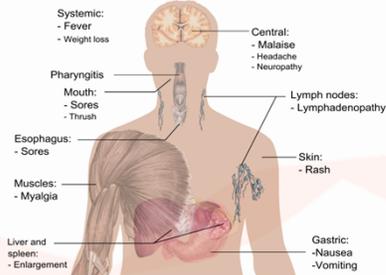
Step 2: Assess risk for HIV acquisition

- Acute or Chronic HIV infection needs to be ruled out prior to initiating PrEP
- Screen for signs of acute HIV or suspect acute HIV infection in persons who have engaged in exposure-prone behaviors in the 4 weeks prior to evaluation for PrEP
- Should have a documented negative HIV test result prior to starting PrEP.
- If anticipating doing long acting IM cabotegravir obtain HIV RNA prior to starting PrEP
- Clinicians should not accept patient-reported test results or documented anonymous test results.
- Rapid tests that use oral fluid should not be used to screen for HIV infection



19

Main symptoms of Acute HIV infection



http://upload.wikimedia.org/wikipedia/commons/4/44a/Symptoms_of_acute_HIV_infection.png

20

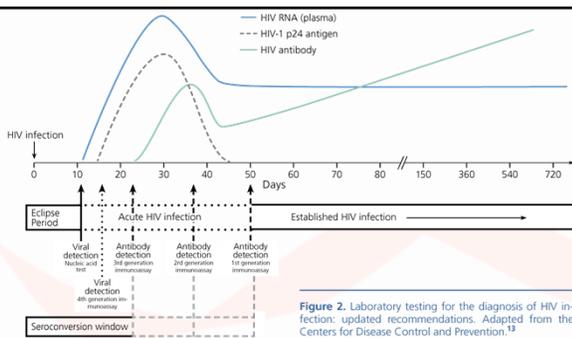


Figure 2. Laboratory testing for the diagnosis of HIV infection: updated recommendations. Adapted from the Centers for Disease Control and Prevention.¹³



Branson BM, et al. Laboratory Testing for the Diagnosis of HIV Infection: Updated Recommendations. CDC.gov. June 27, 2014. Available at <http://stacks.cdc.gov/view/stc/23446>

21

HIV testing for PrEP- Summary

- For patients who are starting or restarting Oral PrEP after a long stop, test using an HIV antigen/antibody test (laboratory-based is preferred).
- If Patient starting long acting Cabotegravir – HIV RNA in addition to Ag/AB test is preferred
- For patients who are taking or have recently taken PrEP (including patients who have taken oral PrEP in the last 3 months or patients who had a CAB injection in the last 12 months), test using an HIV antibody/antigen assay **AND** a qualitative or quantitative HIV-1 RNA assay.



25

FDA Indications for F/TDF vs F/TAF

- F/TDF
 - Prevention of HIV infection among **all people at risk through sex or injection drug use**
 - Renal function: eGFR > 60 mL/min
- F/TAF
 - Prevention of HIV infection among people **at risk through sex, excluding people at risk through receptive vaginal sex**
 - Renal function: eGFR > 30 mL/min



26

(F/TDF)

- Approved for HIV PrEP in 2012
- One pill by mouth daily with or without food
- **Do not use for PrEP if estimated eGFR < 60 mL/min**
- Potential side effects
 - Headache, abdominal pain and weight loss – usually resolves in 2-4 weeks
 - Decreased bone mineral density (no fracture risk)
 - Renal dysfunction including Fanconi syndrome

} Typically reversible with Stopping F/TDF



27

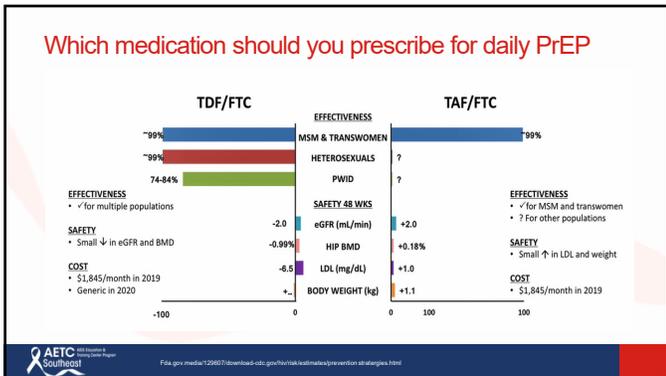
(F/TAF)



- Approved for HIV PrEP for prevention of sexual transmission, **excluding** individuals at risk from receptive vaginal sex on October 3, 2019
- One pill by mouth daily with or without food
- **Do not use if estimated eGFR < 30 mL/min**
- Potential side effects
 - Headache, diarrhea and abdominal pain – usually resolves in 2-4 weeks
 - Decreased bone mineral density (no fracture risk) } Typically reversible with stopping F/TAF
 - Renal dysfunction including Fanconi syndrome }

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28



29

Eligibility for Oral PrEP



HIV test within 1 week before of prescribing PrEP



No signs or symptoms of acute HIV infection



Normal renal function



No contraindicated medications

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<https://www.cdc.gov/hiv/pdf/risk/prev/cdc-hiv-prep-guidelines-2021.pdf>

30

Baseline Lab Evaluation for Oral PrEP

- HIV test: HIV ag/ab +/- HIV RNA
- STI screen
- Serologic testing for hepatitis B & C
- Creatinine clearance
- Lipid panel if TAF/FTC to be used



31

Hepatitis B and Oral PrEP

- Check hepatitis B serology before initiating oral PrEP
- Severe acute exacerbations of hepatitis B can occur in patients infected with hepatitis B who discontinue current PrEP medications
- Vaccinate if nonimmune

Test	Result	Interpretation
HBsAg anti-HBc anti-HBs	negative negative negative	Susceptible (vaccinate)
HBsAg anti-HBc anti-HBs	negative positive positive	Resolved HBV infection
HBsAg anti-HBc anti-HBs	negative negative positive	Vaccinated
HBsAg anti-HBc anti-HBs	positive positive negative	Active HBV infection (usually chronic) *If anti-HBc IgM present, may represent acute infection.
HBsAg HBsAb HBsAb	negative positive negative	Various possibilities: distant resolved infection (most common) recovering from acute infection false positive occult hepatitis B



32

Clinically significant Oral PrEP Medication Drug Interaction

	TDF	TAF
Ledipasvir, sofosbuvir, velpatasvir, voxilaprevir	Serum concentrations of TDF may be increased. Monitor for toxicities	No significant effect
St John's Wort	No significant effect	Do not co-administer with TAF Decrease in TAF concentration possible
Rifampin	No significant effect	Do not co-administer with TAF unless benefits outweigh risks
Rifabutin, Rifapentine	No significant effect	Do not co-administer with TAF



<https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf>

33

Prescribing and Monitoring

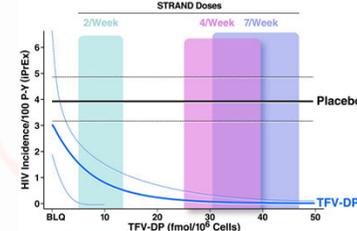


- TDF/FTC or TAF/FTC with or without food
- No more than 90 day supply
- How long does it take for protection from HIV after starting oral PrEP?


<https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf>

34

Adherence Is Critical



Dosing	Estimated PrEP Efficacy
2x/week	76%
4x/week	90%
Daily	99%

Anderson PL. Sci Transl Med 2012;4:1-6

35

Timing of Oral PrEP-Associated Laboratory Tests

Lab Test	Every 3 months	At least every 6 months	Every 12 months	When stopping
HIV Ab/Ag and HIV RNA	X			X
CrCL		If age ≥50 or CrCL < 90 at PrEP initiation	If age <50 or CrCL > 90 at PrEP initiation	X
Syphilis	MSM/TGW	X		MSM/TGW
Gonorrhea/Chlamydia	MSM/TGW	X		MSM/TGW
Lipid Panel/weight (F/TAF)			X	X


<https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf>

36

Long Acting Intra-Muscular PrEP

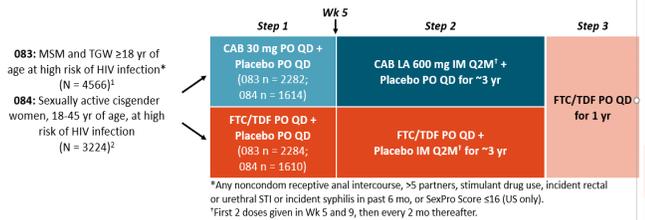
- 600 mg of cabotegravir injected into gluteal muscle every 2 months
- Can delay Identification of baseline HIV – so ideally should do HIV RNA + HIV Ag/AB prior to starting long acting cabotegravir
- Cannot be self administered at home.
- This may be especially appropriate for patients with significant renal disease, those who have had difficulty with adherent use of daily oral PrEP, but can be compliant with clinic visits



37

Efficacy/Safety of LA Injectable CAB vs Daily Oral FTC/TDF

- HPTN 083 and 084: International, randomized, double-blind phase IIb/III (083) and phase III (084) trials



Landovitz. AIDS 2020; Abstr OAKL00102. 2. Delany-Moretlwe. HIVREP 2021. Abstr H010102

38

Efficacy/Safety of LA Injectable CAB vs Daily Oral FTC/TDF

Primary Efficacy Endpoint	HPTN 083 ¹		HPTN 084 ²	
	CAB (n = 2244)	FTC/TDF (n = 2247)	CAB (n = 1614)	FTC/TDF (n = 1610)
HIV infections, n	13*	39	3†	36
PFU	3205	3187	1956	1942
HIV incidence per 100 PY	0.41	1.22	0.15	1.85
HR for CAB vs FTC/TDF (95% CI)	0.34 (0.18-0.62)		0.08 (0.03-0.27)	

¹Includes 1 case readjudicated post hoc as a baseline infection; revised HIV incidence based on readjudication: 0.37 (95% CI: 0.19-0.65), revised HR: 0.32 (95% CI: 0.16-0.58).
²Includes 1 baseline infection.



Landovitz. NEJM 2021;385:595-2. Marzinka. IAS 2021. Abstr PECL825.

39

CAB PrEP Initiation Visit

- Negative HIV Ag/Ab test + HIV RNA test + no concern for acute HIV
- STI screen
 - Gonorrhea & chlamydia at all mucosal sites of exposure
 - Syphilis testing
- Testing NOT needed for CAB PrEP patients :
creatinine, CrCl, hepatitis B serology, lipid panels, liver function tests
- Oral lead in not required-may be optionally used for patients who are especially worried about side effects to relieve anxiety about using the long-acting CAB injection.



40

Cabotegravir (CAB) PrEP Drug Interactions

Rifampicin, rifapentin	Do not co-administer with CAB Rifampicin and rifapentine increase metabolism of CAB and may result in significantly reduced exposure to protective levels of CAB
Rifabutin	Co-administer with caution Rifabutin moderately increases metabolism of CAB and may result in somewhat reduced exposure to protective levels of CAB
Carbamazepine, oxcarbazepine, phenytoin, phenobarbital	Do not co-administer with CAB Concern that these anticonvulsants may result in significantly reduced exposure to protective levels of CAB but strength of evidence is weak



www.cdc.gov/hiv/pdf/risks/prep/cdc-hiv-prep-guidelines-2021.pdf

41

CAB Administration

- Dosing: 3 ml suspension of CAB 600 mg IM in gluteal muscle
 - 3 ml suspension of CAB 600 mg IM in gluteal muscle
 - Second dose 4 weeks after first dose (month 1 follow-up visit)
 - Every 8 weeks thereafter
- Managing Injection Site reactions
 - In the clinical trials, injection site reactions (pain, tenderness, induration) were frequent following CAB injections
 - These reactions were generally mild or moderate, lasted only a few days, and occurred most frequently after the first 2-3 injections
 - Patients should be informed that these reactions are common and transient
 - Take an over-the-counter pain medication soon after the injection
 - apply a warm compress or heating pad to the injection site for 15-20 minutes after the injection



42

Timing of CAB PrEP-Associated Laboratory Tests

Lab Test	Every 2 months	Every 4 months	Every 6 months	When stopping
HIV Ab/Ag and HIV RNA	X			X
Syphilis		MSM/TGW	X	MSM/TGW
Gonorrhea/Chlamydia		MSM/TGW	X	MSM/TGW

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Managing PrEP Patients with Ambiguous HIV test Results

- Given that you are doing both a HIV ag/ab test and a HIV RNA test for patients while on PrEP – you may get discordant results:
- In this situation you should assess adherence and draw a new blood specimen after a few days for repeat laboratory HIV including Ag/Ab and HIV RNA.
- You can consult the National Clinician Consultation line for further guidance about continuing/ discontinuing PrEP



46

Development of Resistance- Oral PrEP

- Risk is low despite 2 drug therapy with PrEP
- IPrEX
 - 48 people with HIV – none with significant resistance
- Partner's PrEP
 - 5 of 63 seroconverters developed resistance
 - M184V

Table 1. Results of Genotypic and Phenotypic Drug Resistance Testing of the Patient's Plasma Sample on Day 1*

Drug Class and Drug	Drug Resistance on Genotypic Testing	Relative Drug Susceptibility on Phenotypic Testing
Nucleoside/nucleotide reverse transcriptase inhibitors		
Abacavir	Intermediate	Susceptible (S 3 × IC_{50})
Lamivudine	High	Resistant (more than maximum IC_{50})
Emtricitabine	High	Resistant (more than maximum IC_{50})
Tenofovir	Low	Sensitive (S4 × IC_{50})
Neuraminidase neuraminidase inhibitors		
Efavirenz	Intermediate	Sensitive (S 50 × IC_{50})
Ramivudine	Intermediate	Sensitive (S 20 × IC_{50})
Nevirapine	High	Resistant (R 1 × IC_{50})
Etravirine	Intermediate	Sensitive (S 20 × IC_{50})
Protease inhibitors of agents		
None	Susceptible	Susceptible
Integrase strand transferase inhibitors		
Raltegravir	Intermediate	Reduced response (R 8 × IC_{50})
Dolutegravir	High	Resistant (R 200 × IC_{50})
Sibinegrivir	Low	Reduced response (R 2 × IC_{50})

Knox DC, Et al. *N Engl J Med*. 2017 Feb 2;376(5):501-502.



47

HPTN 083: Incident HIV Infections With Cabotegravir

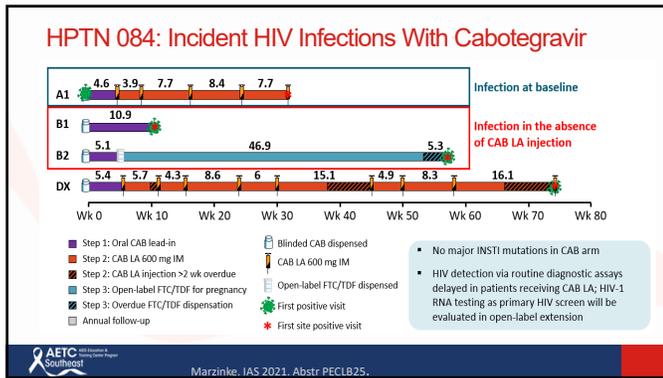
- INSTI resistance observed upon viremic “escape” at higher CAB concentrations; not observed in 3 tail-phase infections or 1 tail “escape” case

HIV Infection Timing	Number of Infections	Resistance Information
Baseline (Group A)	4	NA
With no recent CAB exposure (ie, after long delay in scheduled dosing; Group B)	5	<ul style="list-style-type: none"> WT: n = 3 Y181C, H221Y: n = 1 GT result not available: n = 1
During oral lead-in (before CAB injections; Group C)	3	<ul style="list-style-type: none"> WT: n = 1 L74I, E138E/K, G140G/S, Q148R: n = 1 E138A, Q148R: n = 1
With appropriately timed CAB IA doses and expected plasma CAB levels (Group D)	4	<ul style="list-style-type: none"> K103N, R263K: n = 1 G140A, Q148R: n = 1 GT result not available: n = 2



Landovitz, NEJM. 2021;385:595

48



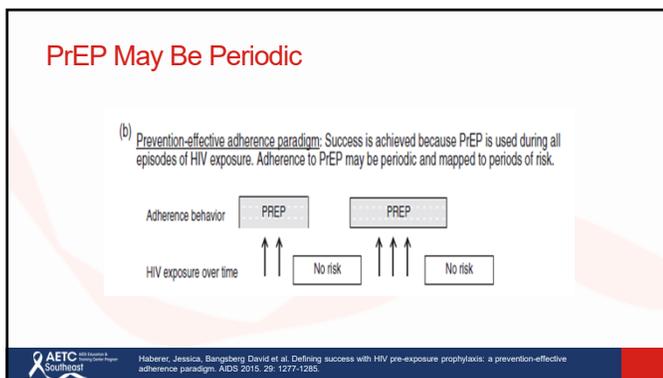
49

Discontinuing PrEP

- Positive HIV result /Acute HIV signs or symptoms
- Chronic nonadherence to prescribed dosing regimen or scheduled follow up visits
- Patient choice/changed life situation resulting in lower risk of HIV acquisition
- Document HIV status at time of discontinuation, reason for discontinuation
- Advise risk of developing drug resistant HIV during the period of waning drug levels (the "tail period")
- CAB levels slowly wane over many months after injections are discontinued. In the HPTN 077 trial, the median time to undetectable CAB plasma levels was 44 weeks for men and 67 weeks for women with a wide range for both sexes

AETC SouthEast
<https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf>

50



51

PrEP in Pregnancy



- F/TDF as PrEP is considered generally safe for pregnant and breastfeeding women
- The data provides no evidence of adverse effects among fetuses exposed to these medications
- Providers should discuss potential risks and benefits of beginning or continuing PrEP during pregnancy

AETC 2018-2020
Southeast

<https://www.cdc.gov/hiv/pdf/risk/prep/idx-hiv-prep-guidelines-2021.pdf>

52

"On-Demand" PrEP

Taking PrEP on a 2-1-1 schedule reduced risk of HIV infection by 86% in MSM- only F/TDF



BEFORE SEX
2 PrEP tablets at least 2 hours and ideally 24 hours before sex

AFTER SEX
1 tablet 24 hours after first dose
1 tablet 48 hours after first dose

If sexual activity continues, take 1 PrEP tablet every 24 hours until 48 hours after last sex. (Adapted from i-BASE.info.)

AETC 2018-2020
Southeast

<https://www.nejm.org/doi/full/10.1056/nejmoa1506273>

53

PrEP in Clinical Practice: What Are the Barriers to PrEP Uptake?

- Users
 - Unaware of HIV risk, PrEP availability, or how to access it
 - No or delayed access to clinical preventive care
 - Lack of knowledge about insurance coverage
 - Adherence challenges
 - Concern about disclosure and stigma
- Providers
 - Unaware of intervention
 - Wary of complexity and time involved
 - Discomfort with assessing risk
 - Uncertain how to bill for intervention

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54

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55

Ready, Set, PrEP

- Launched by the US Department of Health and Human Services on 12/3/19
- To qualify, patients must:
 - test negative for HIV
 - have a valid prescription from a healthcare provider
 - not have prescription drug coverage
- Beginning no later than March 30, 2020, patients may obtain PrEP through CVS, Walgreens, Rite Aid or mail order all at no cost
- <https://www.getyourprep.com/> or 855-447-8410
- [HIV.gov Locator](https://www.hiv.gov/locator)




56

Original Investigation

Sexual Activity Without Condoms and Risk of HIV Transmission in Serodifferent Couples When the HIV-Positive Partner Is Using Suppressive Antiretroviral Therapy

Alison J. Dodge, MD, Valentinia Caribano, PhD, Tina Brown, RN, Pietro Vernazza, MD, Simon Collins, Jan van Lier, PhD, Galo Maria-Corbado, Susanna Costello, MD, Anna Maria Gervasi, MD, Susanna Bernaboni, PhD, David Aylward, PhD, Fernando Vicente, MD, Yoko Colonna, MD, Rosamunda Oates, PhD, Christian Pradier, MD, Jan Cornwell, MD, Susan Weber, MD, Katherine Woodard, MD, Giles Haselden, MD, Janis Price, PhD, Armin Rieger, MD, Marjolaine Staudke, MD, Tom Kivimäki, PhD, Thomas Rock, MD, Mikaela Antonsson, MD, Richard Gibson, MD, Jonathan Korman, PhD, Mark Starks, PhD, Robert Chagnac, MD, Pia Handberg, RN, Antonio Aranda, PhD, Sue Allen, PhD, Andrew N. Phillips, PhD, Jens Lundgren, MD, for the PARTNER Study Group

- The PARTNER1 study looked at 888 couples where one was HIV positive and on antiretroviral treatment (ART) and who were already having sex without condoms:
 - 548 heterosexual couples
 - 340 MSM
- They found that in more than 58,000 acts of condomless sex there were no HIV transmissions from the HIV positive partner among those on treatment with an undetectable viral load
- Couples were followed for a median of 1.3 years



57

Partner 2 Study:

- Prospective observational study in 14 European countries
- Enrolled 927 homosexual serodiscordant couples between September 2010 and July 2017
- Positive partner was on suppressive ART
- A total of 74568 condomless-sex acts were reported, with 0 cases of within couple HIV transmission



<http://programme.aids2018.org/Abstract/Abstract/13470>

58

Conclusions/Recommendations

- PrEP Works!
- Easy to prescribe and monitor – with minimal side effects
- Don't forget other pillars of prevention:
 - HIV Testing that adheres to CDC/USPTF guidelines
 - Treatment as Prevention
 - PEP
- Raise awareness in the community to increase uptake and reduce stigma

59

PrEP Resources



PrEP: Pre-Exposure Prophylaxis

CLINICIANS CAN CALL THE NATIONAL CLINICIAN CONSULTATION CENTER **PrEP**LINE AT 855-448-7737 FOR ADVICE ABOUT INTERPRETATION OF HIV TEST RESULTS AND MANAGEMENT OF PATIENTS WHO ACQUIRE HIV INFECTION WHILE TAKING PrEP MEDICATION.

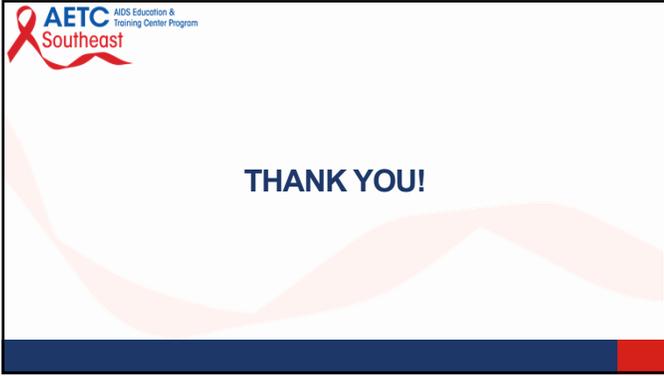


Clinically supported advice on PrEP for healthcare providers
up-to-date clinical consultation for PrEP decision making, from determining when PrEP is an appropriate part of a prevention program to understanding laboratory protocols and follow-up tests.

Call for a Phone Consultation
(855) 448-7737 or **(855) HIV/PrEP**
Monday – Friday, 9 a.m. – 8 p.m. ET
CALL

<http://nccc.ucsf.edu/clinician-consultation/prep-pre-exposure-prophylaxis/>

60



61
