

IAS-USA Guidelines: Prevention of HIV Infection 2020 Update

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Disclosures



- I attended Gilead's 2018 U.S. Latinx/Hispanic PrEP Advisory Program.
- Only FTC/TDF and FTC/TAF are approved by the U.S. FDA and only for use as daily PrEP in some but not all populations. This talk will include discussion of other options for PrEP.

Disclaimer

- This talk describes the new IAS recommendations
- This talk does not include CDC recommendations or specify where the IAS recommendations differ from the CDC's
- The most recent CDC recommendations can be found at
<https://www.cdc.gov/hiv/guidelines/persons.html>

Table 1. Strength of Recommendation and Quality of Evidence Rating Scale^a

Evidence rating	Definition
Strength of recommendation	
A	Strong panel support
B	Moderate panel support
C	Limited or weak panel support
Quality of evidence	
Ia	Evidence from ≥ 1 RCTs published in the peer-reviewed literature
Ib	Evidence from ≥ 1 RCTs presented in abstract form at peer-reviewed scientific meetings
IIa	Evidence from cohort or case-control studies published in the peer-reviewed literature
IIb	Evidence from cohort or case-control studies presented in abstract form at peer-reviewed scientific meetings
III	Based on the panel's analysis of the available evidence

Who should be prescribed PrEP

- PrEP should be discussed with all sexually active adults and adolescents and individuals who inject drugs (AIII).
- FTC/TDF is recommended for at-risk individuals who are pregnant or breastfeeding (AIIa).

What to prescribe as PrEP

- FTC/TDF is the recommended oral PrEP regimen for all populations at risk (A1a).
- Daily FTC/TAF is recommended for the subset of MSM with eCrCl 30-60 mL/min, who have history of osteopenia or osteoporosis, or those at high risk for these (B1a).
- TDF or TAF alone are not recommended (B11a).
- Long acting CAB (pending FDA approval) is recommended for MSM and transgender women (A1a/b*).
 - An oral lead in period is optional (B1b)

HPTN 084: “NIH study finds long-acting injectable drug prevents HIV acquisition in cisgender women”

- 3223 CGW, 18-45 yo, 20 sites in Sub-Saharan Africa
- Planned interim review on 11/5/2020

	Infections	Incidence (95% CI)
CAB	4	0.21% (0.6% to 0.54%)
FTC/TDF	34	1.79% (1.24%-2.51%)

HR = 0.11% (0.04-0.32) = superiority of CAB

- Of subset w 362 participants, only 64% had detectable TFV
- No safety concerns, pain/tenderness at injection site
- Blinded phase stopped

How to prescribe PrEP

- For MSM, 2 pills of FTC/TDF on day 1 reduces time to maximal protection (24 hours), and FTC/TDF should be continued for 2 days after the last at-risk exposure (A1a).
- For others, maximum protection is likely achieved in ~7 days after initiation, and FTC/TDF should be continued for 7 days after the last at-risk exposure (B1a).
- 2-1-1 dosing is recommended only for MSM (A1a). There are no data supporting 2-1-1 dosing using FTC/TAF.

How to prescribe PrEP (2)

- PrEP should be started as soon as feasible (BIII).
- If there is a neg Ag-Ab test w/i 7d and no AHI symptoms, PrEP could be initiated same day (BIIa).
- For oral PrEP, the initial prescription should be 30d with 90d thereafter (BIII).

Baseline testing

- Ag/Ab testing (A1a)
 - Point-of-care HIV tests can be used and PrEP started, but a lab-based Ag/Ab test should also be performed.
- If clinical suspicion of AHI, order HIV RNA testing (A1a) and withhold PrEP. If suspicion extremely high, start ART (A111)
- Serum creatinine (A11a)
- HAV Ab for MSM/PWID if not known to be immune (A11a)
- HBV sAg (A11a)
- HCV Ab (A11a) or HCV RNA if not recently known
- Genital and nongenital GC/CT (A11a)
- Syphilis (A11a)

Monitoring

- HIV testing
 - 1 month (AIII/BIII)
 - Quarterly (AIIa)
- eCrCl
 - At month 3, then annually (AIIa)
 - Q3-6 months for pts with/risk for kidney injury (BIIa)
 - >50 years, eCrCl<90 at baseline, comorbidities (DM, HTN)
- STD testing: Quarterly (AIIa)
- Pregnancy testing: Quarterly (AIIa)

Monitoring (2)

- Patients who have stable visits with on time refills can substitute telemedicine for in-person visits, assuming laboratory testing results will be available for the visit.
- Extending refills to 6 months is reasonable and should be individualized if visits/laboratory assessments are not available (AIII).

Persistence and retention

- Patients who discontinue PrEP because they no longer consider themselves at risk should have those assumptions reviewed and discussed (BIII).
- Patients who discontinue due to economic or structural barriers should have individualized assistance.
- Individuals at high risk who discontinue PrEP have high rates of HIV acquisition (BI).
- Patients who have stopped daily PrEP for ≥ 7 days should be retested for PrEP using a lab-based Ag/Ab test prior to restarting PrEP (BIII).

Adherence support

- Individuals with adherence challenges should be provided individualized counseling.
- Those who are willing should be considered for alarms, pill boxes, electronic reminders, or SMS services (BIIa).

PEP and PrEP

- If a PrEP candidate reports a high risk, condomless exposure in <72 hours, a 3 agent course of PEP for 1 month is recommended, followed by seamless 2 agent PrEP (AIII).
- In setting of non-adherence, a 28 day course of PEP is recommended (CIII).
- Nonadherence is defined as <4 dose/wk average for MSM/TGW and <6 doses in last week for CGW, PWID, heterosexual men (CIIa).

Transgender women

- Measures to support maximal adherence to daily dosing is recommended (BIII).

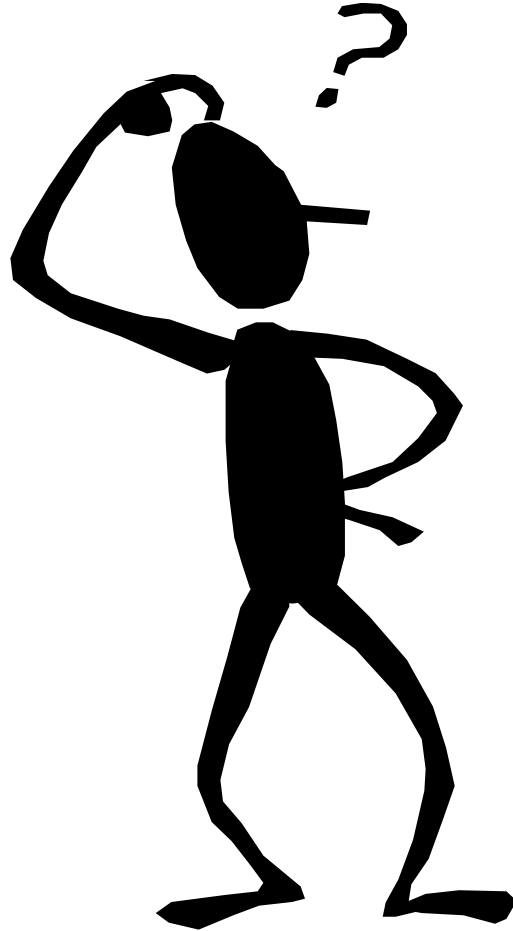
PrEP failure

- Most PrEP “failure” is due to poor medication adherence, and, therefore most infection is with wild-type HIV.
- Even if M184V or K65R/M184V variants are present, DTG-based, BIC-based, DRV-based regimens boosted with RTV or cobicistat in combination with TDF/TAF plus FTC/3TC would still be expected to achieve high rates of viral suppression (AIIb).
- The treatment regimen should be adjusted based on the genotype results prior to ART initiation.

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Questions?



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