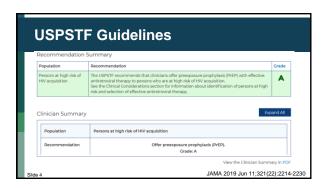
PrEP in The Clinic Hyman M. Scott, MD, MPH Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years: Dr Scott has no relevant financial relationships with ineligible companies to disclose. (Updated 11/16/21) **Learning Objectives** After attending this presentation, learners will be able to: Describe patients who are potential PrEP candidates. Describe the PrEP regimens available for different

Monitor patients on PrEP and support PrEP adherence

populations.





PrEP Access - How much does the care (visits, labs, meds) cost the patient? - TDF/FTC is now generic and should be 100% covered by insurance as USPSTF Grade A Recommendation - Assistance programs: Gilead, PAN, PAF - Does the client need help signing up for insurance?

PrEP Navigation - Generally defined as providing support for insurance, healthcare, and medication access. Can range from passive referrals to active case management. - A pilot study of 61 people showed no difference in active (strengths-based case management) (40%) vs passive referral (29%) in PrEP initiation at 12 weeks - Doblecki-Lewis J Int Assoc Provid AIDS Care 2019 - Single arm study of 187 MSM and TGW showed a 5-session PrEP navigation linked 90% to PrEP. - Reback J Comm Health 2019 - Navigation was associated faster PrEP initiation in a clinical setting - Spinelli JAIDS 2019

Current CDC Guidelines MSM • HIV-positive sex partner • Recent bacterial STI • High number of sexual partners • History of inconsistent or no condom • Commercial sex worker PWID • HIV-positive injecting partner • Sharing injection equipment • NOT in drug treatment • Risk of sexual agouistion (see above)

Revised CDC Guidelines - Draft		
	Adults & Adolescents	People Who Inject Drugs
	Anal or vaginal sex in the past 6 mo AND HIV-positive partner Bacterial STI in past 6 mon History of inconsistent or no condom	HIV-positive injecting partner, OR Sharing of injection equipment
	Universal PrEP Education: Recommendation to inform all sexually active adults and adolescents about PrEP Offer PrEP to anyone asking for PrEP	
Slide 9		Draft Revision to CDC PrEP Clinical Practice Guidelines: Webinar 5/2021 Available: https://www.cdc.gov/hiv/programresources/planning.html

Sexual History Discussions

- Open ended questions about sexual behaviors and other concerns. Try to take "risk" out of the conversation
- The 5 Ps of a sexual history
- Partners (#, gender) over given time
- Practices (oral, anal, vaginal)
- Protection (condoms, when, how often; status discussions)
- Past STI history (pathogen, location, frequency)
- Pregnancy (desire for it, prevention methods)

Slide 1

Language Matters

Taking "risk" out of the conversation

Risk-based

"PrEP is a tool that can be used to reduce anxiety about HIV and take control of your sexual health."

Sexual Health based

"PrEP is for people at high risk for HIV who want to decrease their risk of becoming infected."

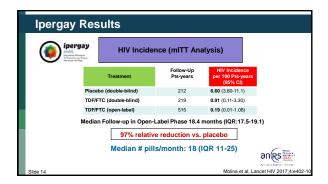
Slide 12

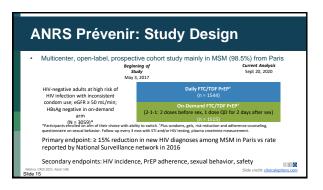
Risk-reduction counseling

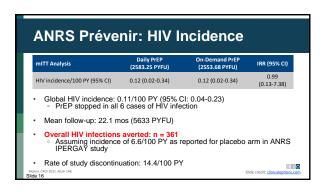
- AWARE Study No effect among 5012 STI clinic patients randomized to brief individualized patient-centered counseling vs information only
 - Higher STIs among MSM who received counseling (aRR, 1.41; 1.05-1.90)
- EXPLORE No effect among 4,295 MSM who received ten 1:1 counseling and quarterly maintenance counseling.

Slide 13

Metsch JAMA. 2013;310(16):1701-1710; Koblin







Recommendations for 2-1-1 TDF/FTC PrEP

- CDC continues to recommend daily TDF/FTC PrEP only, but will be updated in new recommendations
 - only licensed indication by FDA
- IAS-USA guidelines recommend 2-1-1 TDF/FTC PrEP as alternative to daily PrEP for MSM
 - · Does not avoid adverse events
- Daily TDF/FTC PrEP is the only recommended option for ciswomen and PWID

Slide 17

Clinical Considerations for 2-1-1 PrEP 2-1-1 PrEP Who can use it? Only studied in MSM Anyone Chronic HBV Can trigger a flair Can be safety used Planning Need to plan sex at least 2hrs in advance "Forgiveness" Not forgiving of missed doses doses Forgiving of missed doses during the week

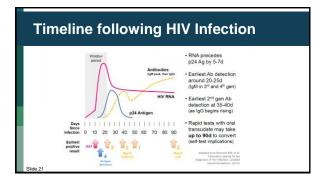
Condom Effectiveness Heterosexuals (Giarrou et al. Expert Rev Pharmacoecon Outcomes Res 2016) Meta-analysis of 25 studies, >10,000 couples Overall effectiveness: 71-77% MSM (Smith et al. JAIDS 2015.68:337-344) Data from 2 large cohorts 70% effective

Baseline Lab testing - HIV

- Laboratory-based HIV screening

 - 4th gen HIV Ag/Ab assay (within 7 days)
 HIV Viral Load (consider, especially if concern for acute HIV)
- · Rapid HIV testing (blood-based)
 - Allows same-day/Rapid PrEP starts
 - Would consider including acute HIV assessment with laboratory-based HIV Ag/Ab, or HIV viral load (pooled or individual)

*If concerned for acute HIV, postpone PrEP until RNA result received/window for exposure closed OR start ART.



Baseline Lab testing Kidney Function Testing (Cr or Metabolic Panel) STI testing GC/CT- pharyngeal, urethral, vaginal, rectal syphilis serology Hepatitis screening HAV Ab HBV (sAg, cAb, sAb) Pregnancy test (for people able to become pregnant)

Prescribing PrEP Confirm • HIV negative CrCl ≥30 ml/min (or GFR if available) No signs/symptoms of acute HIV TDF/FTC 1 tab daily with 2 refills • For all populations TAF/FTC 1 tab daily with 2 refills For MSM TDF/FTC 1 tab as directed with 2 refills For MSM (full 90 day supply to cover 3 month period)

Follow-up Lab testing - HIV

- Laboratory-based HIV screening
 - 4th gen HIV Ag/Ab assay (every 3 months)
 HIV Viral Load if concerns for acute HIV
- Rapid HIV testing (blood-based)
 - Allows same day results
 - Would consider including acute HIV assessment with laboratory-based HIV Ag/Ab

*If concerned for acute HIV, PrEP management is a little more complicated...

Follow-up Lab testing

Kidney Function Testing every 3-6 months (Cr or Metabolic Panel)

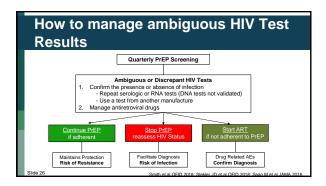
STI testing

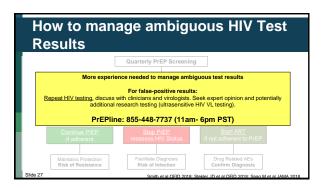
- GC/CT- pharyngeal, urethral, vaginal, rectal
- syphilis serology

Hepatitis screening

Annual HCV screening for MSM and PWID

Pregnancy test (for people able to become pregnant)





PrEP Discontinuations - Average duration on PrEP in many populations is relatively brief in US: - MSM: 38% - 57% at 6 months; 43% - 63% at 1 year - Women: 37.5% at 6 mos - HIV infections high if stop PrEP - Many anecdotal cases of infections when stop PrEP - 18 seroconversions in people who had stopped PrEP in SF STD clinic - 3.9/100 py in people stopping PrEP in Montreal - 0.95 infections/100 py in people stopping vs. 0.25 in people remaining on PrEP in Los Angeles - Blackstock, AIDS Care 2017/28/86-9; Chan, JIAS 2016:19: 20603/Greenwald, CROI 2018, Abstract 91036Hojilla, AIDS and Behav. 2018; 22: 1096-9; Liu, JMAI Intern Med 2016:176:75-94. Mortgomery PLOS One 2016:11:015772; Revice, ID2 015/872-95; Rhower, CROI 2018, Abstract 91050-916:11-015772; Revice, ID2 015/916:11-015772-95; Rhower, CROI 2018, Abstract 91050-916:11-015772; Rhower, ID2 015/916:11-015772-95; Rhower, CROI 2018, Abstract 91050-916:11-015772-95; Rhower, CROI 2018, Abstract 91050-916; Rhower 91050-916; Rhow

Prep Discontinuations In SFDPH Clinics • Median Duration on Prep 8.2 months in SFDPH Primary Care Clinics • More discontinuations among Black vs White patients. • Low HIV/STI testing by clinicians • Prep Navigation not associated with fewer discontinuations. State 4DS 2019; Spinelli OFID 2019; Saberi JMIR Form Res 2018

PrEP Implementation

- · Task-shifting
 - Non-prescribers for PrEP education and adherence counseling, and financial navigation support.
 - Standing order protocols for staff to order initial or follow-up labs.
 - Clinician evaluation is minimal for most patients (can be done via telemedicine)

Slide 3

PrEP Implementation

- · Streamlining delivery
 - Standing orders for HIV/STI.
 - Support patient self-collection of swabs (at home or in clinic bathrooms)
 - Consider if self-swab instructions/diagrams are appropriate for posting in your clinical spaces
 - Less frequent clinician visits with quarterly "lab-only" visits for stable patients

Slide 31

Expanded use of Telemedicine

- The COVID-19 pandemic has highlighted the advantages and challenges of telemedicine in care retention.
 - Limited data available on PrEP uptake and persistence (two pilot studies showed promise; an RCT is ongoing).
 - Several companies provide telemedicine-based PrEP (Plushcare, Nurx, etc)
- Video and phone communication to match patient needs. Texting for adherence support and testing reminders

Slide 3

Home testing options

- · Home self-collection of swabs and urine for STI testing
- HIV and syphilis testing may still require laboratory visit
 Some labs offer dried blood spots or capillary tubes
- · Consider costs associated with home testing options
 - Ex: California SB 306 requires health plans to cover at-home test kits for HIV and STIs (announced 10/2021)

Slide 3

Summary

- · All our patients should receive PrEP education
- Minimize "risk" discussions with patients and no evidence that risk reduction counseling works for HIV-negative patients
- · Offer the PrEP options which may be appropriate
- Streamlining evaluation, testing, and expanding telemedicine are strategies to support PrEP implementation

Slide 34