Prescribing HIV Prevention: Preexposure Prophylaxis (PrEP)

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Disclosures

- No relevant commercial relationships to disclose
- Generic and brand names will be used as appropriate

*Off label content identified on slides

Objectives

At the end of this session, participants should be able to:

- Identify risk factors for HIV among their patients
- Become familiar with prescribed HIV prevention methods including all available PrEP options
- Reference current guidelines for the use of ARVs as prevention
- Discuss how medical HIV prevention can be tailored as part of patient-centered care

Case 1

A 52 year old black patient presents for annual exam

Ser Surgery Can

ipned Sex at Birth.

Demographics

(Male)

mentheirs

- PMHx: hyperlipidemia, HTN
- Medications: atorvastatin, lisinopril
- NKDA, no significant family Hx, no surgical Hx
- Social Hx: has been separated from his wife for 9 months

- On sexual history the patient reports 6 female partners in the last 6 months. He reports using condoms most of the time, but some exceptions: 1 partner he trusts, 2 partners in the context of etoh.
 - He engages in oral-penile intercourse, oral-vaginal intercourse, penilevaginal intercourse. He denies anal intercourse or anolingus.
- Recommend screenings: HIV, urine gc/Ct, oral gc/Ct, syphilis
- He declines HIV testing stating that he is not at risk...
- What patient education is appropriate?

Daily tenofovir/emtricitabine reduces risk of HIV acquisition by up to 99%

Baseline Labs

- HIV Ag/Ab
- Hep B surface ab/ag
- Creatinine
- Urine HCG (if childbearing potential)
- TPPA/RPR
- Hep A ab (if AI)
- Hep C ab
- Gc/Ct (genital, pharyngeal, rectal)



Q3 Month Follow Up Labs

- HIV Ag/Ab
- Creatinine
- Urine HCG (if childbearing potential)
- STI Screening depending on patient's risk (q3-6months):
 - RPR, three site gc/Ct



PrEP Side Effects

Number of patients treated per year to possibly result in a harmful outcome:



PrEP Side Effects

Common	Uncommon	Serious
Diarrhea (2%)	Vomiting	↓ Bone mineral density
Dizziness (2%)	Abdominal pain	Kidney failure
Gas	Decreased appetite	Lactic acidosis
Nausea	Weight loss	Liver disease
Headache	Malaise	Muscle weakness
Rash	Muscle pain/cramp	Pancreatic disease
Skin discoloration	Dysphagia	
	Shallow breathing	
	Sleepiness	

Case 2

Talia is a 16-year-old patient presents for a school physical with their caregiver (aunt)

- No PMHx, significant Family Hx
- No Medications, NKDA
- Social Hx: senior in high school, On softball team, lives with aunt Alcohol: 2-3 beers per setting at parties Marijuana weekly Tried cocaine this past summer



When you get to sexual practices, auntie leaves the room:

- Non-binary, AFAB, reports oral sex, receptive vaginal sex, receptive anal sex
- Using condoms 50% of the time
- No prior HIV testing or STI testing
- No history of HPV vaccine

Talia had consensual, unprotected receptive vaginal and anal sex two days ago.

HIV status of partner unknown.

What's next?

Exposure to HIV is considered a medical emergency

Which PEP Regimen Would You Recommend?

A. F/TDF daily x 30 days
B. F/TAF daily x 28 days
C. F/TDF + Dolutegravir x 28 days
D. F/TDF + Efavirenz x 28 days

Post-Exposure Prophylaxis (PEP)

- Administered after high-risk exposure to HIV
- F/TDF + dolutegravir daily OR raltegravir twice daily X 28 days
- Administer first dose ASAP (72 hours)
- Laboratory tests
 - HIV negative \rightarrow buy Ab tests for the office!!!
 - Hepatitis B surface antigen, renal function, HIV viral load
 - +/- urine HCG
- Follow up
 - Repeat testing at 4-6 weeks for HIV and 3 months
 - Consider PrEP, if applicable

PE: W: 60 kg, H: 66 inches, No significant findings

Labs:

- HIV antibody test negative in office (phew)
- Urine HCG test negative
- 3-point STI testing collected in office
- Lab requisition for additional diagnostic testing

Assessment and Plan:

- PEP x 28 days
- Administer Plan B
- +/- Prophylactic GC/CT and trichomonas treatment
- Administer HPV vaccine 1 of 3
- Follow up in 4 weeks for repeat testing and PrEP consultation

Talia returns in 4 weeks

- Two days left of PEP treatment
- Interested in transitioning to PrEP immediately
- Discuss birth control options

Transmission Rate

- MSM, MSMW, and transgender women make up 81% of new HIV diagnoses
 - Anal sex
- 19% cisgender/endosex women
 - Receptive vaginal sex
- HIV disproportionately affects transgender women
 - 1 in 2 are Black
 - 1 in 4 are Latinx
- 58% of transgender men diagnosed with HIV are Black

PEP to PrEP

Labs:

- HIV antibody and HIV viral load testing
- Urine pregnancy test
- STI testing: GCCT, RPR
- Renal function

Assessment:

- F/TDF vs F/TAF
- Discuss Hepatitis A/B vaccination
- Birth control discussion

TDF VS TAF?

Descovy (F/TAF)

- FDA approved for PrEP October 2019
- Indications:
 - Adolescents and adults ≥ 35kg, high risk for HIV-1 transmission
 - ***EXCLUDES**: individuals having receptive vaginal sex
- Dose: FTC 200mg / TAF 25mg daily
 - TAF absorbed quicker,
 - Plasma exposure to TAF, intracellularly converted to TDF at higher levels
 - Lower drug levels

Limitations of DISCOVER Trial

- Double blind, randomize HIV seronegative
- Median age: 34
- Majority white
- Criteria:
 - ≥ 2 condomless unique sexual partners in previous 12 weeks OR
 - Diagnoses of GC, CT, syphilis within 24 weeks
- Cisgender MSM and TGW
 - *Does not include cisgender/endo women or transmen or any vaginal receptive sex
- Subjects were seen in follow-up visits at Weeks 4, 12, and every 12 weeks thereafter; 50% followed up at 96 weeks

Plan for Talia

- Complete PEP regimen
- Continue F/TDF daily for PEP to PrEP transition
- Start ethinyl estradiol/norgestimate daily
- Referral to GYN for progestin-releasing implant
- Repeat labs and follow-up appointment in 3 months.

Case 3

55 year old presents for treatment of rectal gc

Medications: Lisinopril, Humalog, Alendronate, Vit D, Calcium

Form

Assigned Sex at Birth MFI

(Circle all that apply)

Gender: Pronouns: He She They

- No relevant family history of surgical history
- Sexual history: Partner is UVL, exploring CNM

• Primary partner is UVL (Undetectable Viral Load)

- Rectal gc likely from an outside partner when they "played"
- Engages in
 - Receptive penile-anal
 - Receptive/insertive oral-anal intercourse
 - Receptive/insertive oral-genital intercourse

HIV Incidence is Increasing Among Which Population?

- A. All men who have sex with men
- B. Young MSM (age 13-24)
- C. Black heterosexual women
- D. All of the above



Liu 2011, Grant 2016, Mugwanya 2016, Hare 2019



Grant 2010, Metsch 2013, Vallabhaneni 2012, Smith 2015, Cohen 2011, Smith 2005

Treatment as Prevention

Undetectable = Untransmittable

Rodger 2016, Donnell 2010, Cohen 2011

Case 4

A 35 yo presents as new patient for PrEP intake

- Patient has been on the DISCOVER Trial for 3 years at UCLA
- Found out he was on F/TAF and has been released from trial
 - No adverse effects
- Recently got PPO insurance and is in office to continue F/TAF

23rd St. Medical

Gender: Helthe Pronouns: Helthe

- Prior to being on study, he was on F/TDF for 5 years
 - Experienced GI discomfort

• **PMHx**: Rectal GC, negative repeat testing on multiple occasions; history of secondary syphilis 6 months ago

- Medications: Descovy (F/TAF), finasteride 1 mg daily
- NKDA, no significant family Hx
- Social Hx: Alcohol: 5 drinks on weekends, Drugs: marijuana weekly, MDMA 3-4 times per year, GHB 3-4 times per year, lives with main partner, works at home for marketing firm

Insurance Concerns

- PrEP history
 - Time on medication
- PMH
 - Age
 - Renal
 - BMD
- Adverse effects
- Laboratory discrepancies
- Documentation, documentation, documentation

Insurance Concerns

- Internal review
- External review
- Denial discussion

Case 5

36 year old male presents to establish care

- No known drug allergies, medical history, or medications
- Social: Denies drug, alcohol, or tobacco use
- Occupation: masseuse
- Hesitant to start any medication but wants to talk about PrEP

Laser Surgery Care Patient Information Assigned Sex at Birth: Gender: M Pronouns: <u>He Serve</u> Gender:

Sexual History

- Regularly engages in scheduled sexual encounters with clients
 - Condomless with HIV-negative and UVL clients
- Engages in
 - Receptive/insertive penile-anal
 - Receptive/insertive oral-anal intercourse
 - Receptive/insertive oral-genital intercourse
Prep pk/pd

Daily F/TDF

- 2 doses/week 76% efficacy
- 4 doses/week 96% efficacy
- 7 doses/week 99% efficacy

Potential for alternative dosing strategies

- 1. S's & T's (Sat, Sun, Tues, Thurs)
- 2. Pericoital/on-demand/2-1-1

***Tenofovir/emtricitabine is NOT approved or recommended for less than daily use



- Ipergay (France) 414 HIV-negative, high risk MSM
- 86% reduction (39.4-98.5%) P=0.002
- (14 seroconversions in Placebo arm; 2 in PrEP arm)
- Median of 14 pills/mo
- (4/wk is ~90%+ effective)

***Tenofovir/emtricitabine is NOT approved or recommended for intermittent use

Molina 2015

"On Demand" or 2-1-1 Dosing

Tenofovir/emtricitabine is NOT approved or recommended for intermittent use

- Relies on anticipation of sex
- Less drug = less potential for side effects and adverse events

"[Intermittent dosing] is clearly preferable to no PrEP at all"

Review: What Labs are Drawn to Initiate PrEP (at a minimum)

- 1. HIV, Hepatitis B, Cr, Urine HCG*
- 2. HIV, Hepatitis Panel (A/B/C), CMP, Urine HCG*
- 3. HIV, Hepatitis B/C, Cr, LFTs, Urine HCG*
- 4. HIV, LFTs, BUN/Cr, Urine HCG*

3 Month Lab Results

3 month Lab Results:

- HIV Ag/Ab NR
- Syphilis NR
- Genital gc/Ct NR
- Oral gc/Ct Gc+/Ct-
- Rectal gc/Ct NR
- HBsAb/HBsAg Reactive/NR
- HAV Ab, HCV Ab NR
- Creatinine 1.15

Will PrEP Increase Risky Behaviors?

Risk homeostasis\risk compensation posits an individual will maintain an average level of risk they find acceptable.

Increased STI Risk Among PrEP Users

MSM on PrEP are

11.2X

more likely to acquire

25.3X

more likely to acquire Chlamydia

more likely to acquire Syphilis

44.6X

Than MSM not on PrEP

However, they are screened more frequently and may represent a higher risk population

STI Risk in PrEP Users

275 MSM at risk of HIV exposure in DC:

41%	who were using PrEP
	were:

more likely to self report an STI in the past year

Just as likely to have a current STI

Torres 2019, Chapin-Bardales 2019

3X

1922 MSM in 5 cities*

29% who were using PrEP were:

- **2X**
- as likely to be tested in the past year
- Slightly more likely to have gc/Ct detected at any site (15% vs 12%)



↑ risk of rectal Ct otherwise similar

*(SF, DC, NY, MIA, Houston)

"Sexual health is a state of physical, mental, and social well-being in relation to sexuality."

-World Health Organization

PrEP: Injectable Cabotegrevir

Q2 month IM cabotegravir At least as effective as F/TDF

- S/E: injection site reaction
- Oral lead-in
- Q2 month IM vs Q3 month labs



PrEP Pipeline

- Injectable PrEP every 3 months?
- PrEP vaginal ring (27% effective women in Sub-Saharan Africa)
- Implantable PrEP (\$140 million grant)
- Topical PrEP for RAI (Rectal Microbicides)

None of these are approved or recommended for PrEP

Molina 2015, Baeten 2016, HPTN, Bill & Melinda Gates Foundation, MTN 2016

"No more excuses,

We have the tools to end the epidemic:

It is up to us to do it."

-Dr. Anthony Fauci Director of the NIAID at NIH



Resources

Finding a PrEP Provider	www.preplocator.org www.greaterthan.org/get-prep/
Uninsured/underinsured/ Copay Assistance	www.panfoundation.org www.copays.org www.health.ny.gov/ (PrEP-AP) Manufacturer rebate programs

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Take Home Points

- HIV prevention IS the responsibility of health care providers
- HIV prevention options vary and meet the needs of a diverse patient population
- Tenofovir/emtricitabine as daily pre-exposure prophylaxis for HIV is highly effective, safe, and easy to manage in a primary care setting
- Additional options for PrEP coming soon

AAPA CME

Toward Health Equity: Social Determinants of Health and PA Practice Update on Sexual Transmitted Infections: Advanced and Interesting Cases Basic Principles of Culturally Sensitive Care for Sexual and Gender Diverse Patients (Including LGBT+) Caring for Gender Diverse Patients in Your Practice HPV: Here, There, and Everywhere Getting to the Bottom of Anorectal Pathology Dermatologic Care for Sexual and Gender Minorities Caring for Lesbian, Bisexual, and Queer (LBQ) Womxn

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