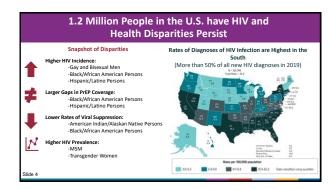
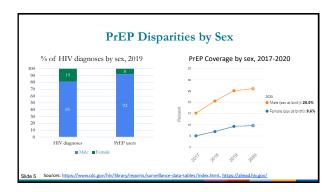
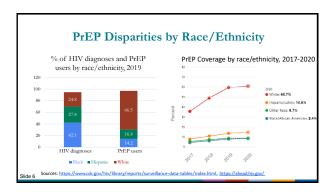
Optimizing HIV Preexposure Prophylaxis	
Dawn K. Smith, MD, MS, MPH Division of HIV Prevention, NCHHSTP, CDC Atlanta, Georgia	
Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years:	
Dr Smith has no relevant financial affiliations to disclose. (Updated 04/01/22)	
Slide 2	
Learning Objectives	
After attending this presentation, learners will be able to:  Identify patient populations with greatest need for PrEP  Identify processes that can optimize PrEP initiation and persistence	
Identify implementation issues for delivering cabotegravir injections for PrEP  Slide 3	







# Optimize Identification of Patients Who Need PrEP

- Educate all patients about PrEP to
  - Increase community awareness
- Increase patient-generated requests
   Offer to all patients with evidence of
  - HIV acquisition risk

     Use EMR CDS or visit intake checklists
  - Diagnosis of gonorrhea or syphilis
  - Sexual partners of PLWH who have not yet achieved sustained viral suppression

# **Missed Opportunities**

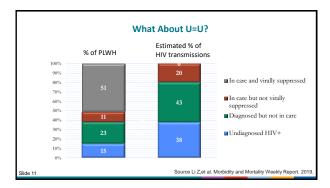
- In NYC, among seroconverters 2012-2017
   42% had a prior negative HIV test visit without provision of PrEP
- In SC, among seroconverters 2013-2016
  - 25% had a diagnosis of gonorrhea or syphilis at a prior healthcare visit without provision of PrEP
- In AL, among adolescents at a primary care center
  - 44% had a PrEP indication. None were offered/prescribed PrEP

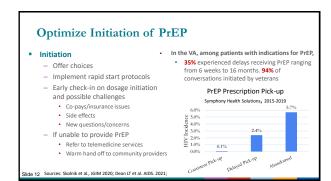
Zucker et al., AIDS Patient Care STDS 2018; Smith et al., CID 2019 Hill et al., Sex Transm Dis 2020

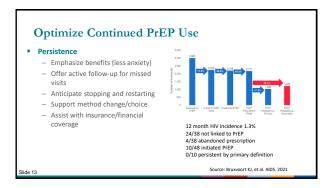
# Poll Case Study

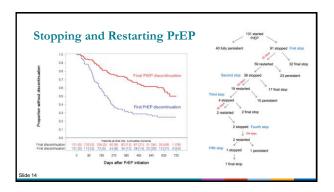
- 45-year-old male with HIV (and an undetectable viral load for the last 4 years, on DTG/TDF/FTC) presents to your clinic for a routine follow up visit
- He reports that he is In a new monogamous relationship with a male partner who has tested HIV-negative
- They are worried that he might transmit HIV and he asks about PrEP for his partner

Slide 8









# Reasons for Not Using PrEP

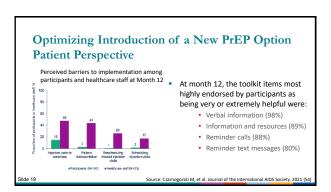
- Decline PrEP offer
- Ottawa STD clinic
  - 42% not at sufficient HIV risk, current risk is atypical
  - 26% not interested or wanted to
  - think about it (or mistimed offer)

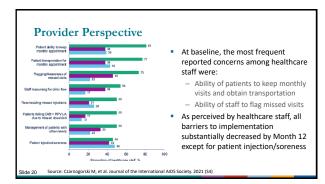
     14% other life issues preclude use
  - 10% negative beliefs about PrEP
- Discontinue PrEP use
  - Atlanta PrEP clinic
  - 31% not currently at risk
  - 13% logistical problems attending appointments
  - 10% side effects intolerable
  - 8% positive HIV test
  - 4% dislike taking pills
  - 35% no reason given

Slide 15

Sources: O'Byrne P et al.AIDS and Behavior. 2020; Serota DP et al, CID, 202

# Switching PrEP Regimens \*\*Treatment through PrEP regimen over following both resoluted country \*\*Treatment through PrEP regimen over following both resoluted country \*\*Cl 1-67–2-85) more likely than the reverse. Skide 16 \*\*Source: Coyer Let al, Eclinical Medicine, 2020





# Optimizing Detection of incident HIV Infection

- Two algorithms to determine HIV status
  - Starting/restarting PrEP for persons with no recent antiretroviral use
     Lowered HIV-1 RNA threshold for retesting for possible false positive result
  - Restarting/continuing PrEP for persons with recent antiretroviral use
    - New algorithm using qualitative (or quantitative) HIV-1 RNA assays

Slide 2

### Clinical and diagnostic test results from Thai MSM who started oral PrEP during acute HIV infection Partici -pant 3145 4634 5803 6313 91 276 739 15 NAAT 317 8,802 521 WB = Indeterminate or NEG at all time points in all participants Source: CROI 2021, Abstract 179

# Delay between 1st reactive qualitative HIV-1 RNA test and 1st reactive Ag/Ab test (HPTN 083)

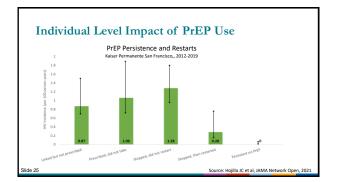
	Cabotegravir Arm			F/TDF Arm	
	Baseline	Incident No CAB	Incident On CAB	Baseline	Incident
	n=4	n=5	n-=7	n=3	n=30
Participant number (%)	3 (75)	0	7 (100)	3 (100)	8 (21)
Duration of delay, range, days (among those with delayed Ag/Ab test result)	14-60	NA	35-185	14-36	7-68

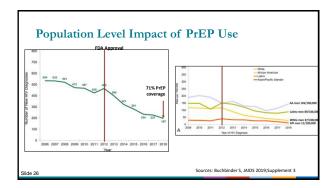
Extract from: Marzinke MA et al. JID. 2021;224(9):1581-1592

# Resources for Clinicians

- PrEPline 855-448-7737 (855-HIV-PrEP) NASTAD Toll-free
  - Clinical care questions
  - Access to advanced diagnostics for
    - Ambiguous test results
    - Person who acquire HIV while prescribed PrEP
- PrEP clinical practice guideline 2021
- PrEP clinicians supplement 2021

- - Billing and coding guide
    - https://www.nastad.org/resourc e/billing-coding-guide-hivprevention
  - PrEP healthcare coverage calculator
  - NASTAD (checkbookhealth.org)
- HIV Nexus
  - https://www.cdc.gov/hiv/clinicians/in
  - Resources for clinicians and patients





# Optimizing PrEP To Maximize Impact

- More choices, more complexity
- First optimize for the patient
  - Provide whichever option offers the best available prevention care for a given patient
- Then optimize for the provider/health care site
  - Organize workflow to reduce burden for the staff

Slide 2



Question-and-Answer Session	
JON SUPE	