

# The Epidemics of SUD, HCV and Other Infectious Diseases

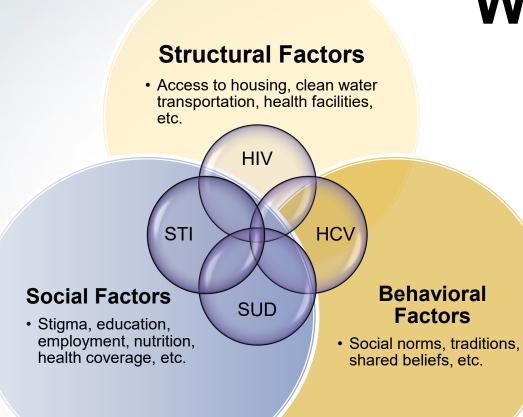
Robert Lawrence, MD / Alaska Chief Medical Officer



# WHAT IS A SYNDEMIC?

Singer, M. and Clair, S. (2003), Syndemics and Public Health: Reconceptualizing Disease in Bio-Social Context. Medical Anthropology Quarterly, 17: 423-441. <u>https://doi.org/10.1525/maq.2003.17.4.423</u>





# WHAT IS A SYNDEMIC?

- Clustering of two or more health conditions in a population
- Synergism producing excess burden of disease in a population
- Precipitation and propagation by large scale behavioral, structural and social forces

Singer, M. and Clair, S. (2003), Syndemics and Public Health: Reconceptualizing Disease in Bio-Social Context. Medical Anthropology Quarterly, 17: 423-441. <u>https://doi.org/10.1525/maq.2003.17.4.423</u>



#### HEALTH ALASKA IN BRIEF

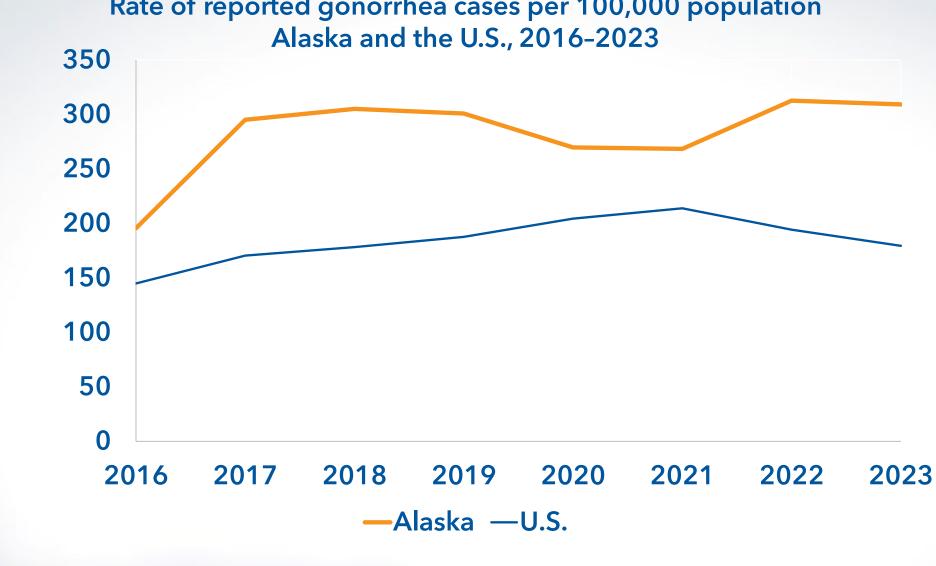
## Alaska's gonorrhea rate is the nation's highest and chlamydia rate is third highest

BY: YERETH ROSEN - NOVEMBER 22, 2024 12:44 PM



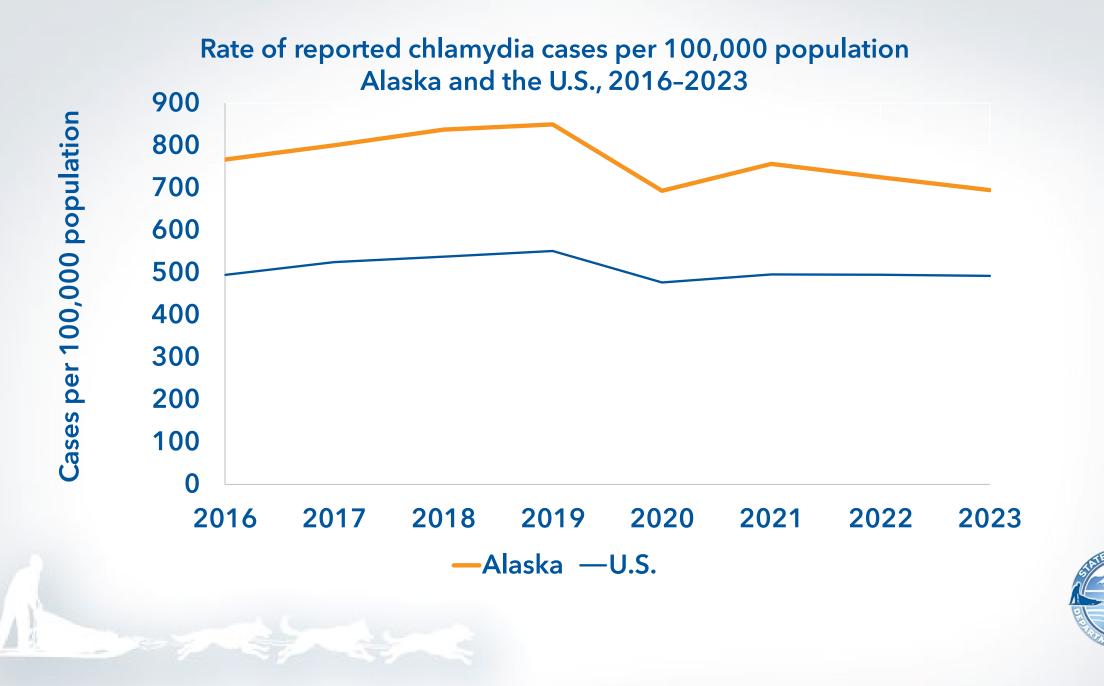
A filer posted on on Thursday on a University of Alaska Anchorage bulletin board gives information about testing for sexually transmitted infections. Alaska had the nation's highest gonorrhea rate last year. (Photo by Yereth Rosen/Alaska Beacon)

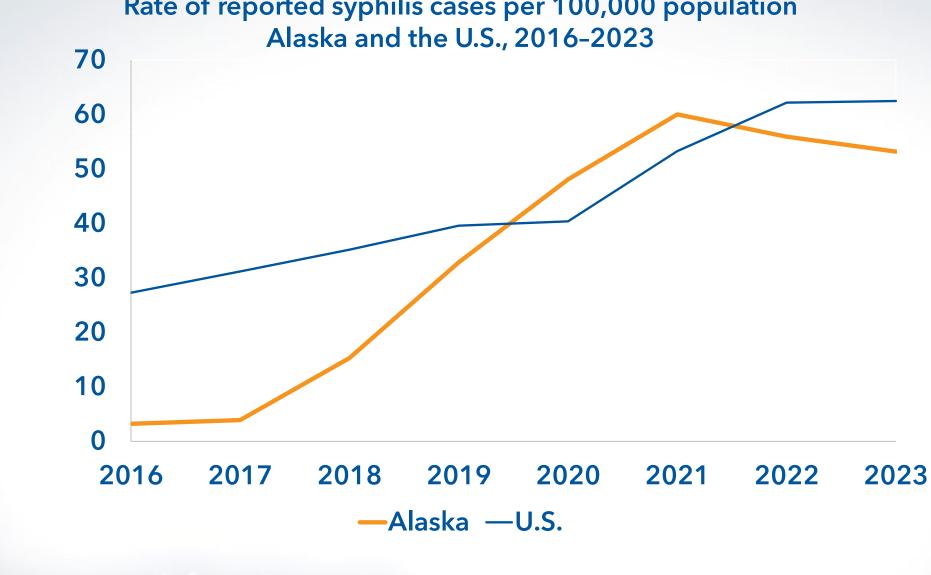




# Rate of reported gonorrhea cases per 100,000 population

Cases per 100,000 population

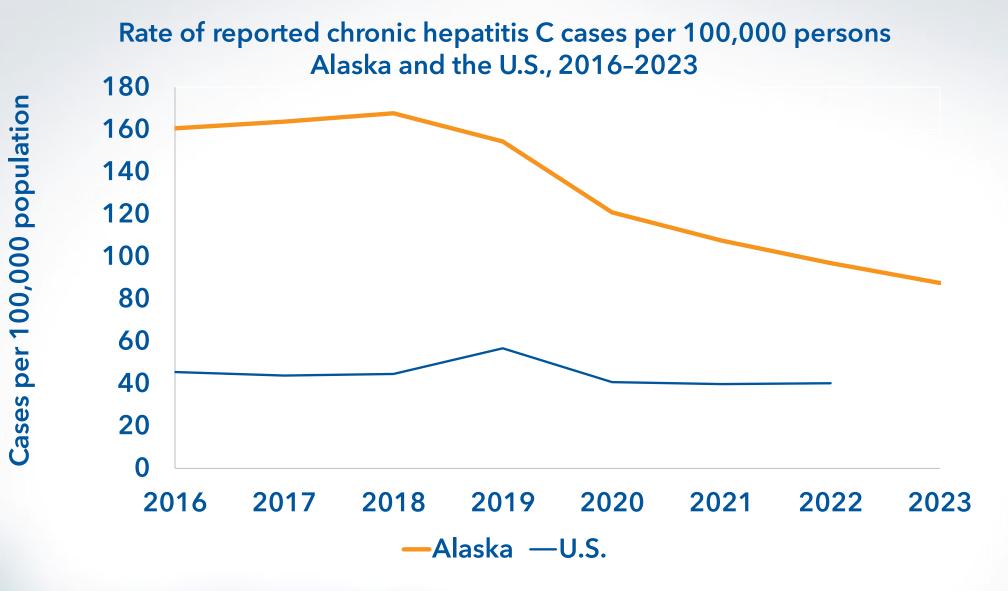






Cases per 100,000 population

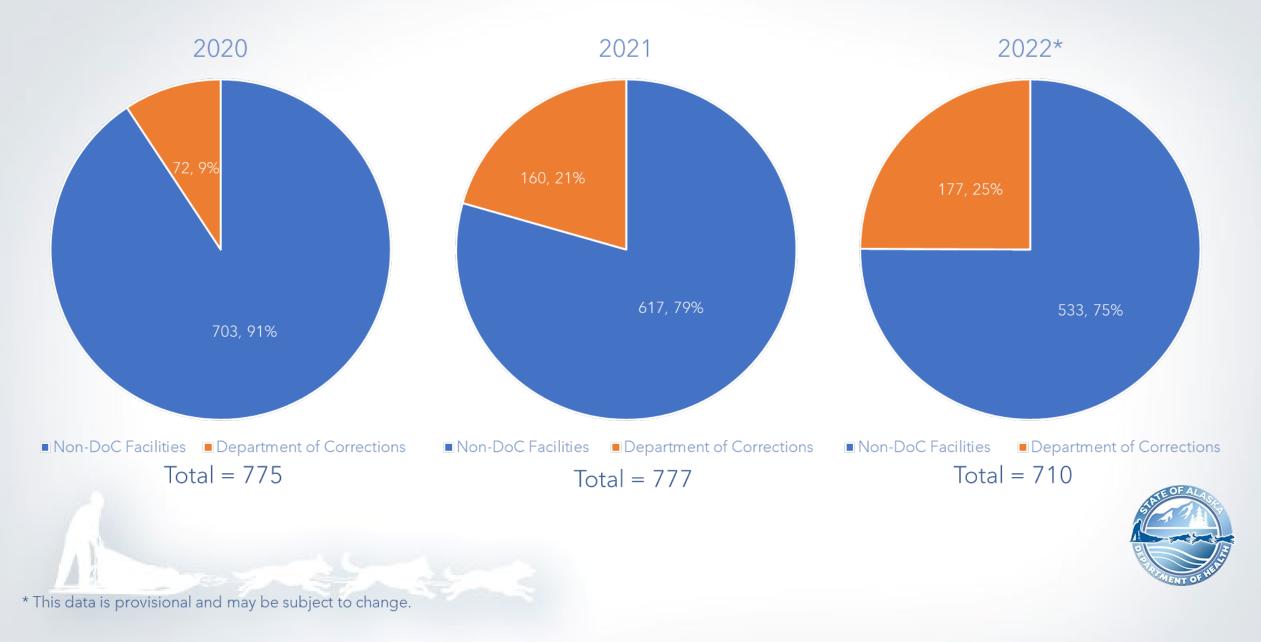


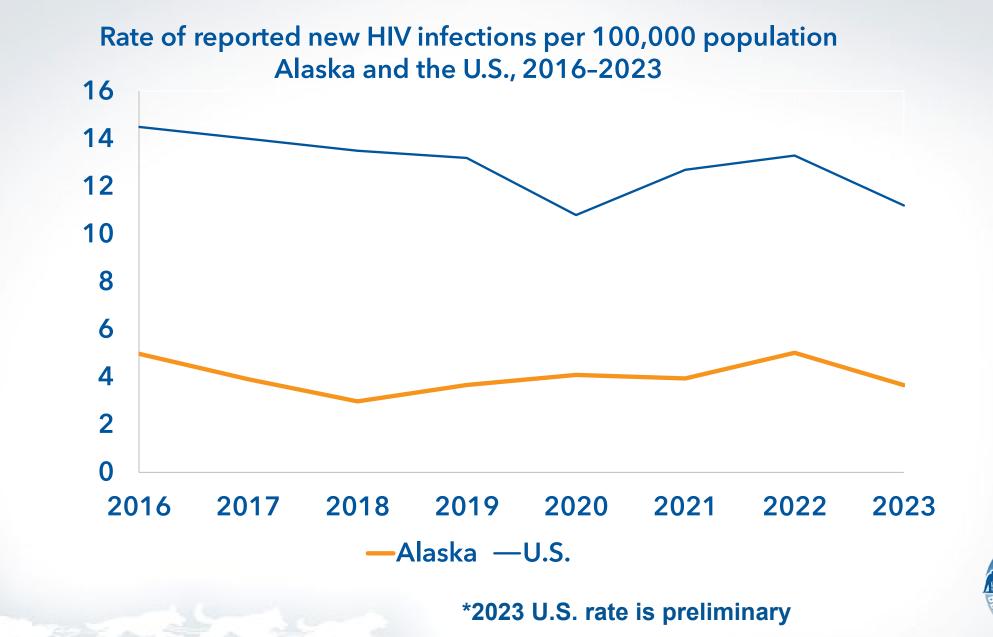


\*Not all states reported all years. 2023 national data not yet available.



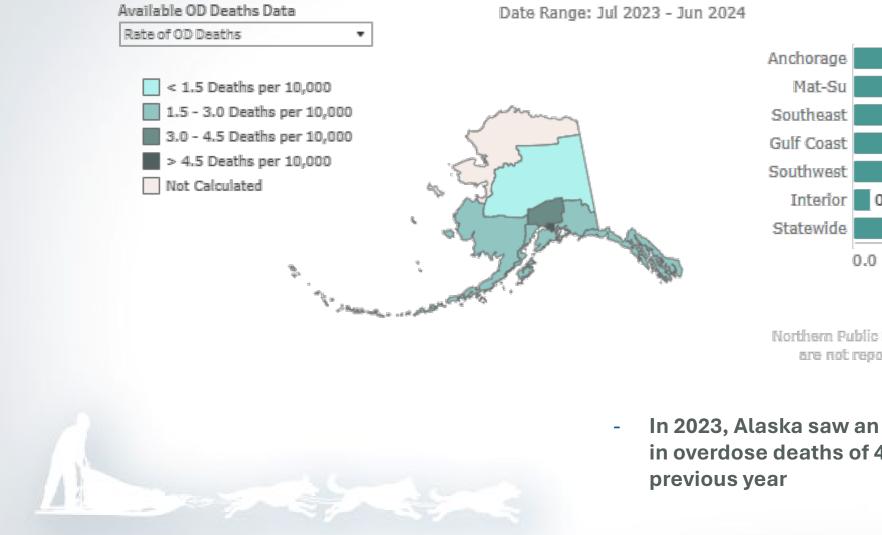
### CONFIRMED AND PROBABLE HEPATITIS C INVESTIGATIONS

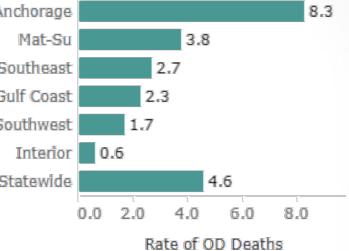




Cases per 100,000 population

## **Overdose Deaths in Alaska**





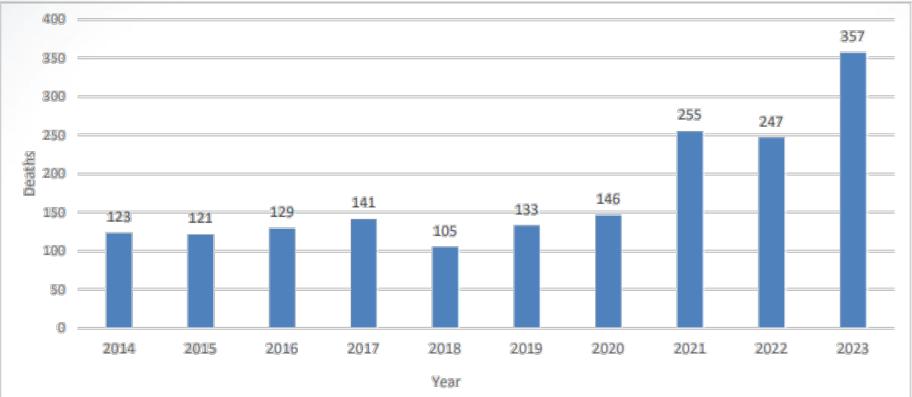
Northern Public Health Region numbers and rates are not reported due to small sample size

In 2023, Alaska saw an annual increase in overdose deaths of 43% over the



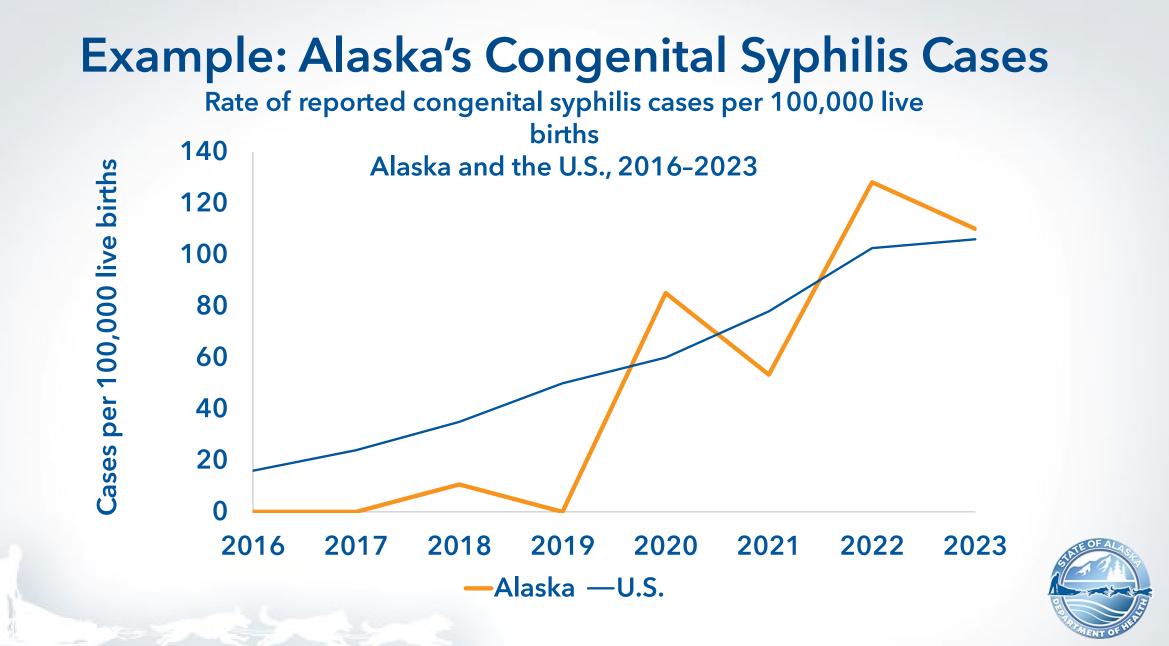
## **Overdose Deaths in Alaska**





 In 2023, Alaska saw an annual increase in overdose deaths of 43% over the previous year



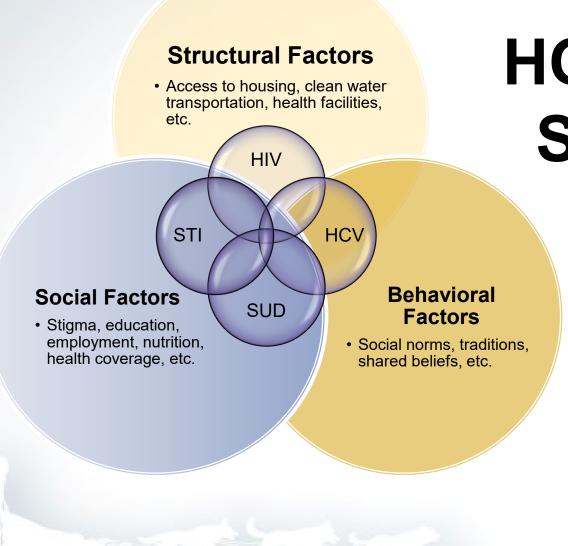


## **Example: Alaska's Congenital Syphilis Cases**

- No or inadequate prenatal care
- Experiencing homelessness
- Substance use especially methamphetamine
- Previous sexually transmitted infection (STI)
- Previous syphilis



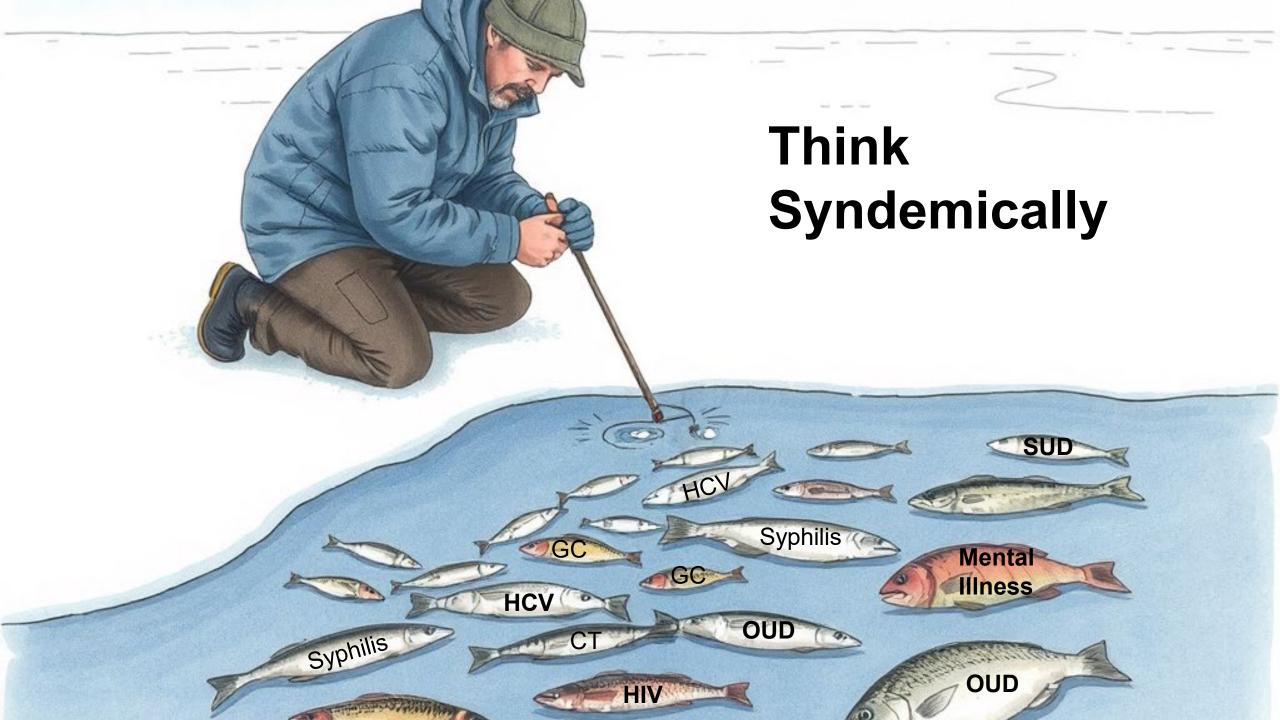




# HOW DO WE THINK SYNDEMICALLY?







# Keep an Upstream Perspective

ST

## **Keep an Upstream Perspective**

Community Conditions

## Individual Health Related Needs



8-22

### Keep an Upstream Perspective Nutrition Clean Homelessness Water

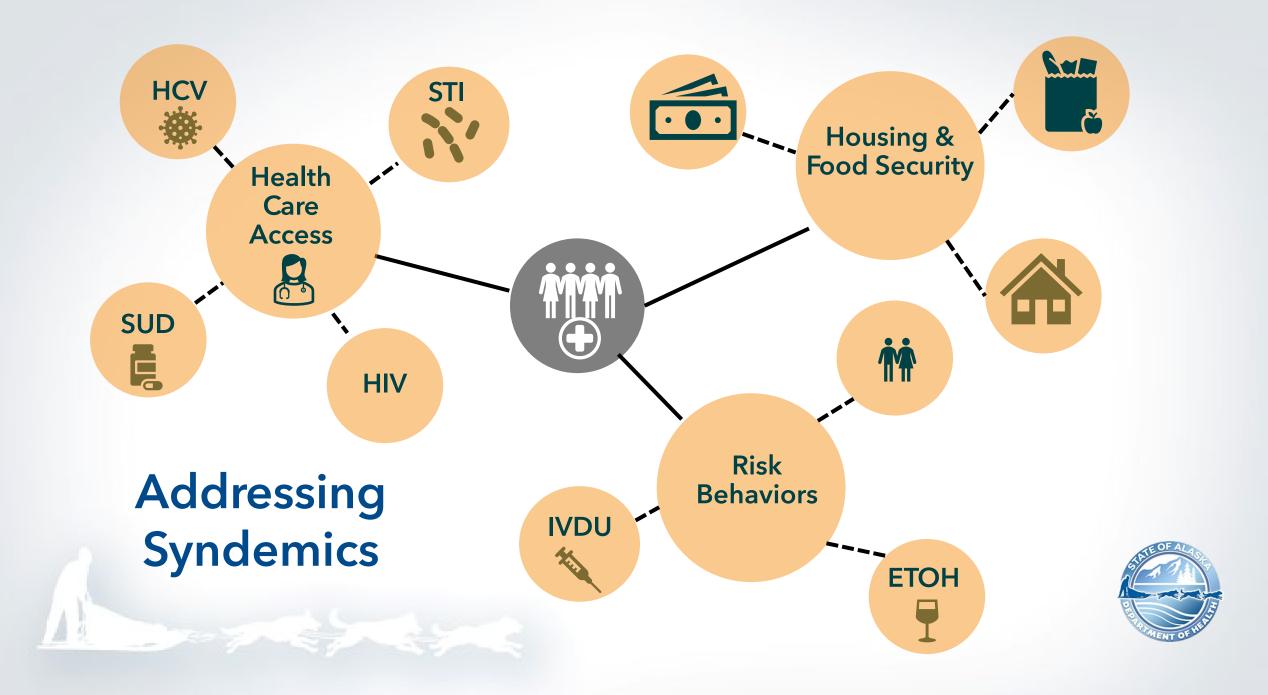
Clinical

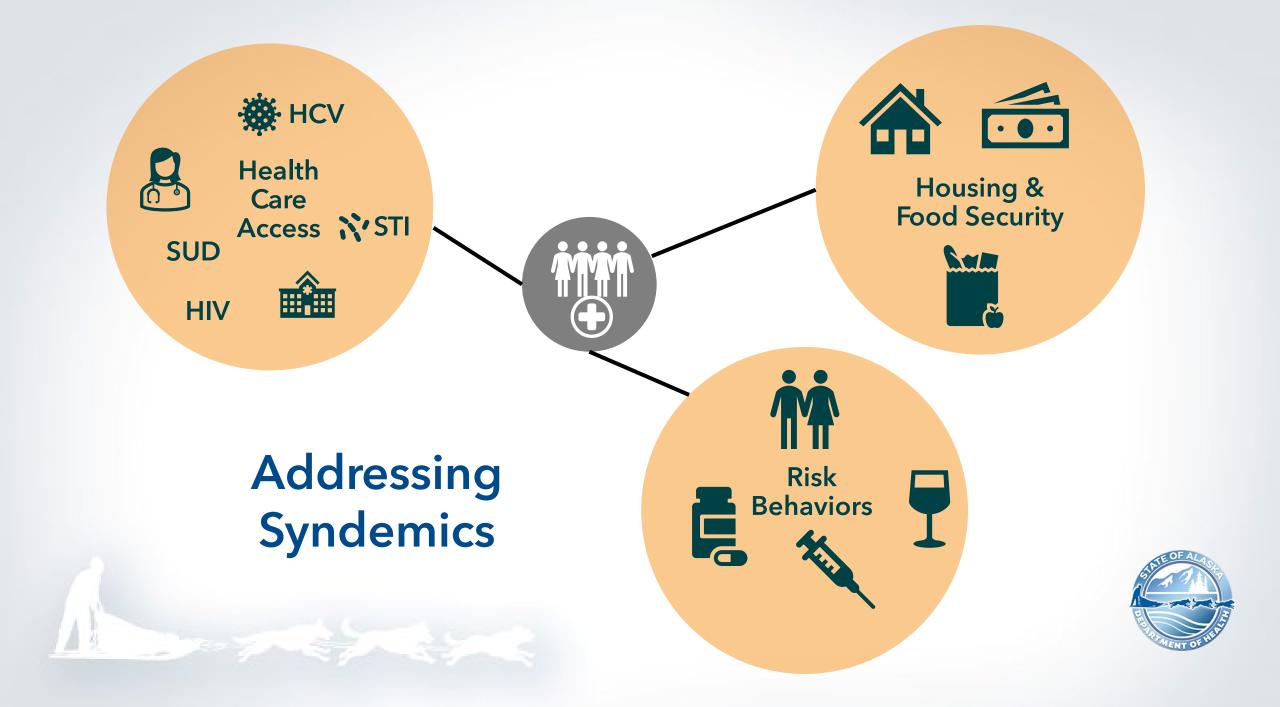
Care

58 -2 m

**Exposures** Justice

## Individual Health Related Needs





## Addressing Syndemics



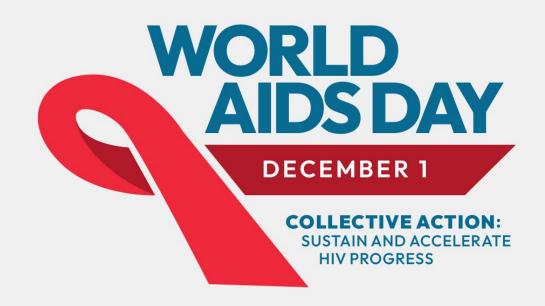


## Ending the Syndemic: STI/HIV

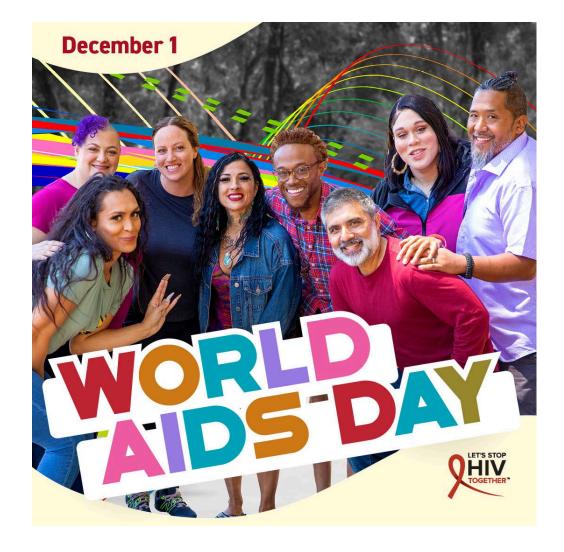
Bethel, AK - December 4-5, 2024

#### Leah Besh, PA-C, AAHIVS

Early Intervention Services/HIV Program Alaska Native Tribal Health Consortium labesh@anthc.org (907) 729-2907



## World AIDS Day – December 1



December 1st is World AIDS Day – a day to reflect and raise awareness about HIV and AIDS and honor the lives impacted by the epidemic.

This year's theme is Collective Action: Sustain and Accelerate HIV Progress. Together, we can prevent HIV, support people with HIV, and remember those who lost their lives to an HIV-related illness.



### I have no conflicts of interest to disclose





## Acknowledgement

This Mountain West AIDS Education and Training (MWAETC) program is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$3,098,654 with 0% financed with non-governmental sources.

The content of this presentation are those of the author(s) and do not necessarily represent the official views, nor an endorsement, by HRSA, HHS, or the U.S. Government.





- Understand the Epidemiology of HIV and STIs and how it affects your community \*\*State of Alaska EPI removed from PDF\*\*
- Increase your knowledge and comfort with comprehensive STI screening
- Increase your knowledge and prescribing of PEP and PrEP
- Understand how you can play a part in HIV elimination.
- Understand where there are disparities and gaps in care related to HIV/STI prevention.



## Four Pillars of Ending the HIV Epidemic in the U.S. (EHE)

75% reduction in new HIV diagnoses in 5 years and a 90% reduction in 10 years.



#### Diagnose

All people with HIV as early as possible.

#### Treat

People with HIV rapidly and effectively to reach sustained viral suppression.

#### Prevent

New HIV transmissions by using using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).

#### Respond

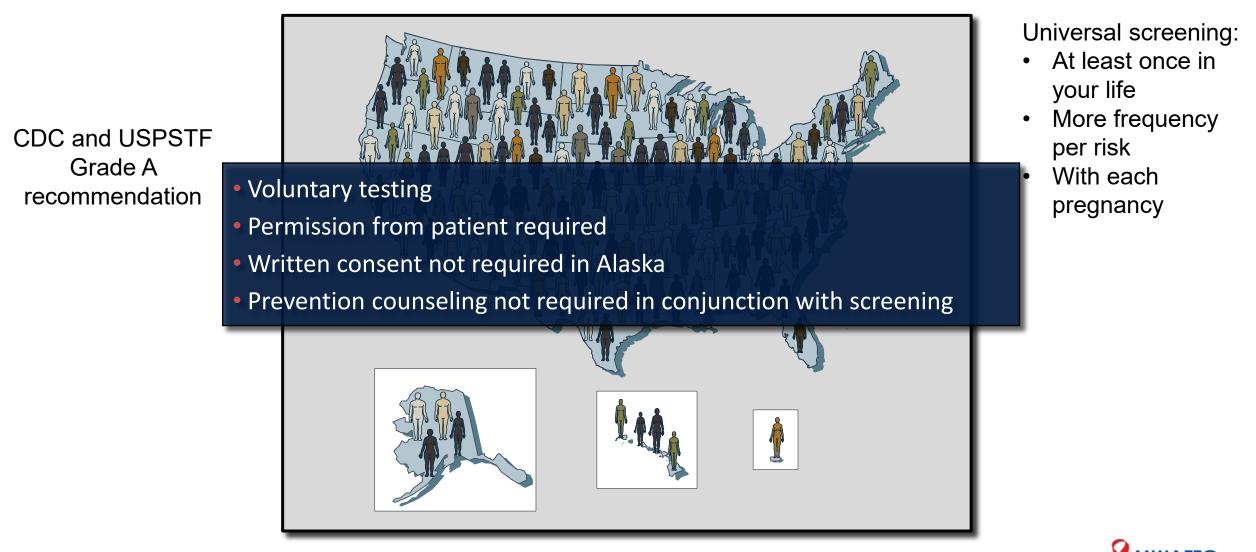
Quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.



### HIV/STI Screening and Lab Interpretation

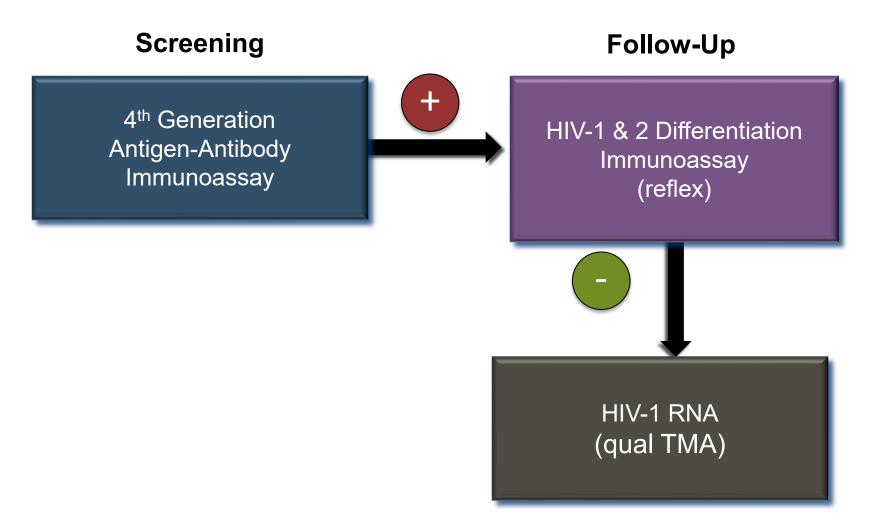


## **Routine Screening for HIV Infection**



Source: CDC. MMWR 2006;55(no. RR-14):1-17. CDC HIV SCREENING RECOMMENDATIONS

## Approach to HIV Screening and Diagnostic Testing



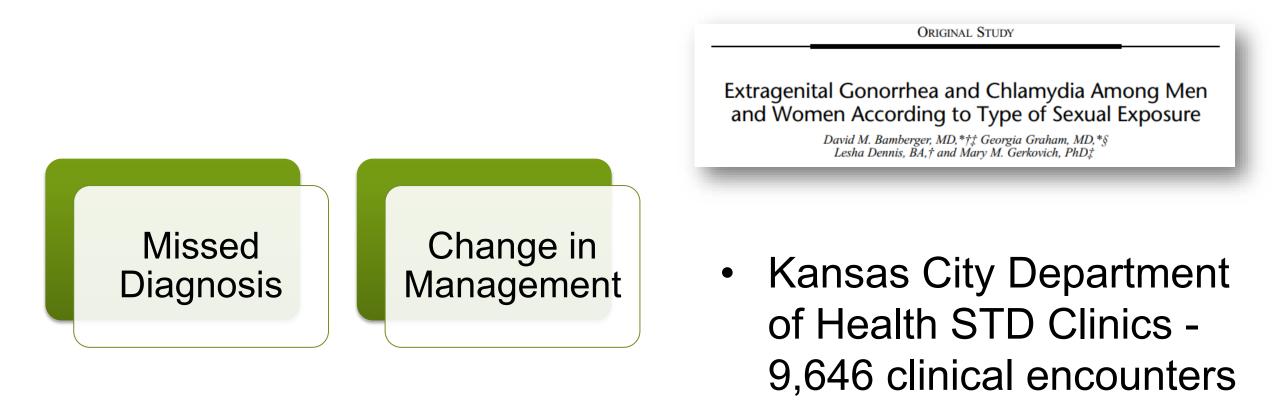


Slides courtesy of David Spach, NWAETC

### STI/HIV Complete Screen

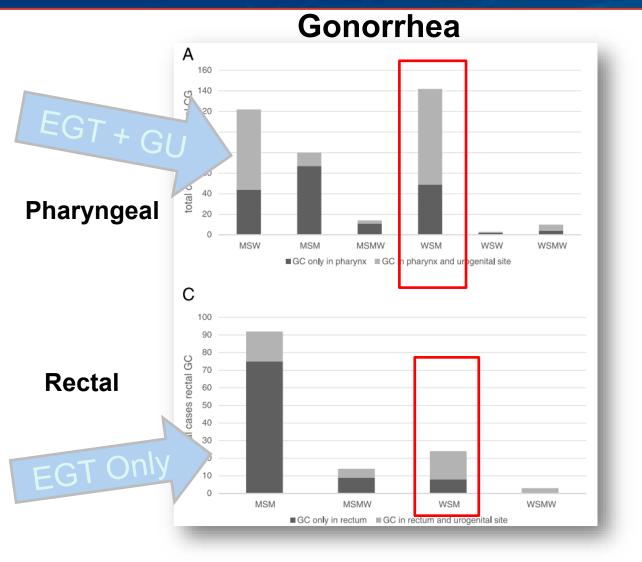
Test	Exceptions
HIV Ag/Ab screening	-Add HIV PCR if concerned for acute HIV infection -All positive rapid Ab only HIV testing need confirmatory testing
Syphilis screen	-Start with RPR if Hx of syphilis infection
Chlamydia/Gonorrhea	-Offer testing at all sites people use for sex-ASK, offer all sites anyway -We rarely use urethral swabs, urine is just fine (and clients more likely to return for testing!)
Trichomonas	-Offer with all vaginal aptima swabs -No specific guidelines for non-vaginal testing
Hepatitis C Antibody	-If positive it means patient has been exposed, may not have active infection-confirmation needed -If known Hx of HCV, Screen via HCV PCR (viral load)
Hepatitis B Screening with: HBV surface Antigen, HBV core Antibody, HBV surface antibody	-If there is documentation of full vaccine series, screen may not be indicated unless immunocompromised. -If no infection and not immune-VACCINATE
Hepatitis A total Antibody	Screening recommended for MSM, IDU populations. -I would recommend if there is no documented Hx of HAV vaccination series, and HAV total Ab negative-VACCINATE (if pos they are immune from prior vaccine or prior infection)

## **Emphasis on Extragenital Testing**

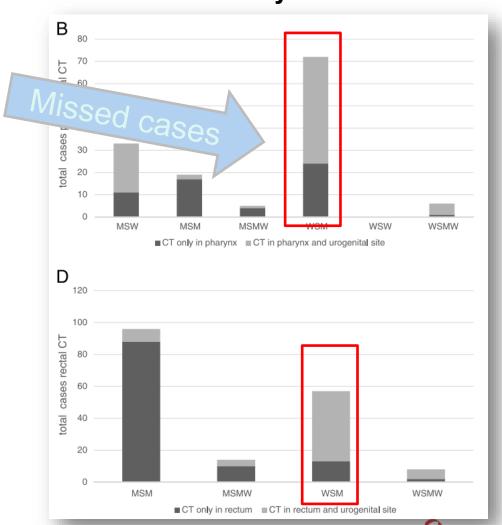




## **Emphasis on Extra Genital Testing**



Chlamydia



**MWSIMe** 23

Bamberger DM, Graham G, Dennis L, Gerkovich MM. Extragenital Gonorrhea and Chlamydia Among Men and Women According to Type of Sexual Exposure. Sex Transm Dis. 2019 May;46(5):329-334. doi: 10.1097/OLQ.00000000000000967. PMID: 30676485.

# Vaginal Swab Tips and Tricks

- Insert about 2 inches just like a tampon, swirl for 10-30 seconds or whatever they want.
- If giving patients the collection tube, remind them not to poke through the foil top or spill the fluid, consider giving just the wrapper.
- Does not matter if they are on their period or bleeding.

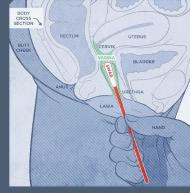
Posters available, email AlaskaKit@anthc.org

https://www.uwptc.org/self-testing-guides-downloads



#### TEST YOURSELE The Visual Guide for a

Self-collected Vaginal Swab









Patient labe

Wash your hands with soap and water

3





Vaginal labe

6 above the dashed line (closer to the swab tip





2 inches (5 cm) into the ind twirl the swab for ure the swab touche the sides of the vagin



Remove the swab but d

9 some discharge o



the transport tube









Put the cap back on Place the collection swab into the transpo and twist it closed to tube, snapping it at the dashed line. Do not to prevent leaks. spill the liquid or pierce

13 Put the transport

14

### Pharygeal Swab Tips and Tricks

- It's just like a strep swab, no need for stigma!
- The one swab patients often prefer the care team to do due to gag reflex.

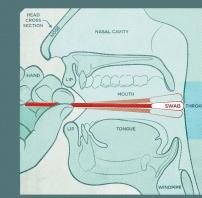
Posters available, email AlaskaKit@anthc.org

https://www.uwptc.org/self-testing-guides-downloads



#### TEST YOURSELF

The Visual Guide for a Self-collected Throat Swab





Wash your hands with soap and water



2 Remove the transport tube and

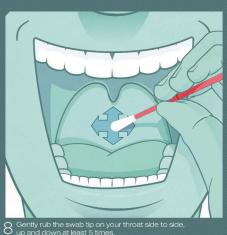


3 Label the transport tube with your Patient label.

A Label the transport tube with the **5** Containing the collection swab.

6 Hold the collection swab far enough from the tip.





 $7\,\mathrm{Say}\,\mathrm{AHH}...$  and reach the collection swab into your mouth to gently touch your throat.











10 Place the collection swab into the transport tube, snapping it at 11 Put the cap back on the transport tube and twist it closed to prevent leaks.

12 Put the transport tube into the biohazard bag.

13 Wash your hands with soap and water.

### **Rectal Swab Tips and Tricks:**

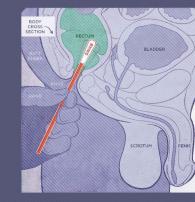
- Ask patients to separate their buttocks, spreading out the anal opening allows for less friction while inserting probe
- Can dampen with water, but no lube even if water-based, please.
- You really only need to go in one inch, and swirl 5 times. You do not need to reach the transition zone as in an anal PAP

Posters available, email AlaskaKit@anthc.org



#### IRSELE

Self-collected Rectal Swab







Wash your hand:

3 Laber and tube with your swab from packaging.





5 Open the package containing the collection swah

O collection swab above the dashed line (closer to the swab tip



stool may help













3 Wash your hands with soap and wate



 $\angle$  tube into the





8 Gently insert the swab 1 inch into the rectum and twirl the swab in a circle at least 5 times



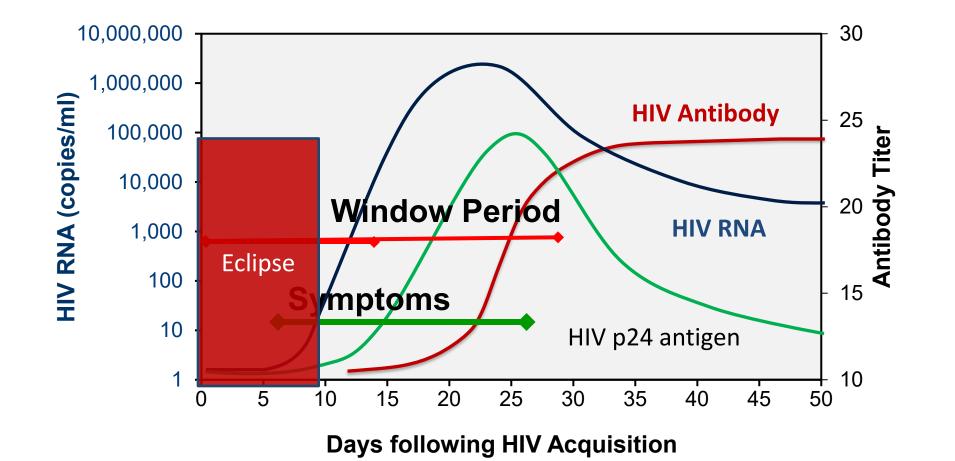
# **HIV Self-Test Kit**

- Mailed to individuals
- OraQuick 24/7 support center available via telephone
- AK-based RN available during business hours



# iknowmine.org/shop

### Laboratory Diagnosis of Early HIV Infection

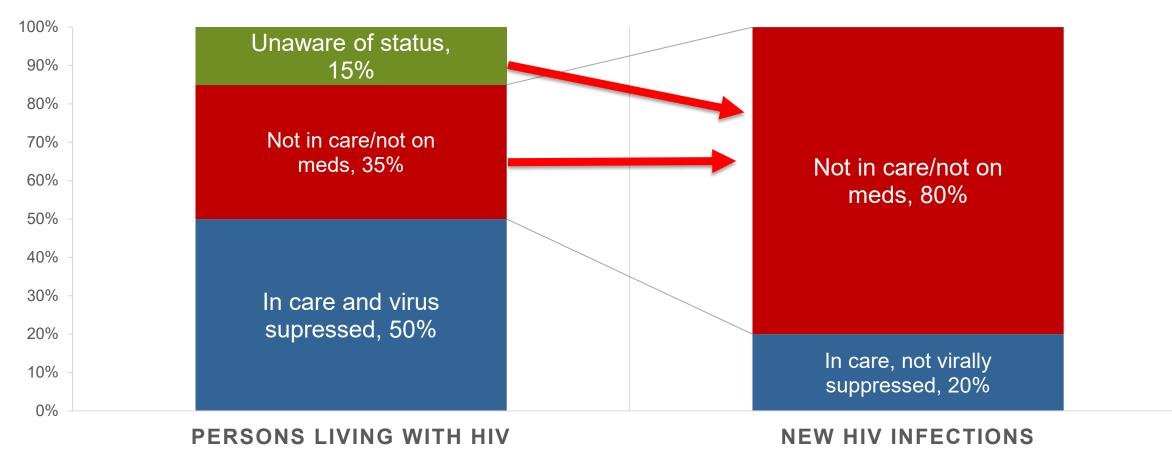


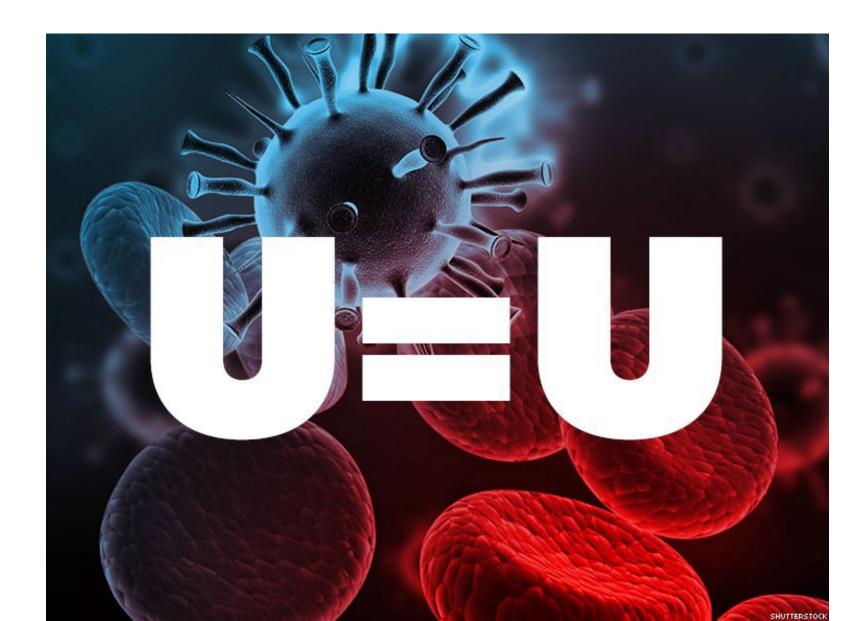
# PLWHIV not in care transmit most of new infections

In care and virus supressed

Not in care/not on meds

Unaware of status



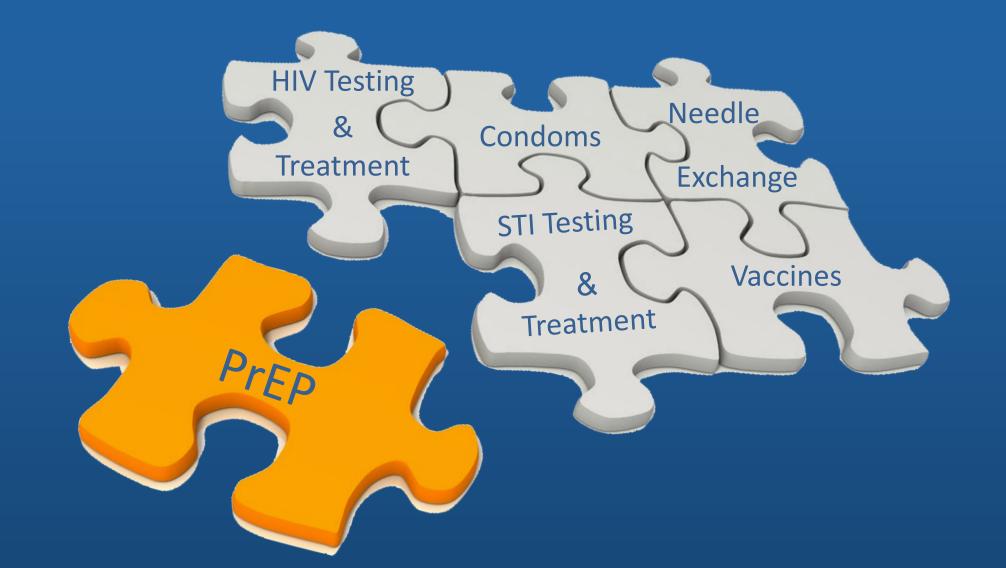




### HIV Prevention PEP/PrEP



#### PrEP is One Piece of the HIV Prevention Puzzle



Nonoccupational or Occupational Post-Exposure Prophylaxis is a tool we can use to help prevent HIV infections.

- The three drug antiviral regimen helps by blocking the HIV virus entry into cells, and therefore blocks infection.
- PEP first used in 1990s for healthcare workers
- nPEP guidelines first published by the CDC in 2005, updated in 2016

#### PrEP VS. PEP ethods for preventing HIV that involve taking H

PrEP and PEP are methods for preventing HIV that involve taking HIV medicines. When you take steps to protect yourself against a disease, like HIV, it's called prophylaxis.

PrEP and PEP are for people who don't have HIV, but are at risk of getting it.



### nPEP Considerations

- What is your patient's HIV status?
- Do you know the source patient's HIV status?
  - If they do have HIV, do we know their HIV antiviral history?
- What exposure occurred?
- When did the exposure occur, or when did it last occur?

### WHAT IS PEP?

**PEP** (or post-exposure prophylaxis) involves taking anti-HIV drugs **very soon after** a possible exposure to HIV to **prevent HIV.** 



# What is your patient's HIV status

A HIV screen (Antigen/Antibody) screen should be obtained at baseline

- If Screen is positive:
  - Connect patient to services for ongoing HIV management and rapid antiviral therapy start
  - A 28 day of PEP is not useful
- If Screen is negative:
  - Continue to assess PEP indication
  - Are they taking PrEP? If Yes, PEP may not be indicated

#### HOW CAN YOU TELL IF YOU HAVE HIV?

You **can't** rely on symptoms to tell if you have HIV.

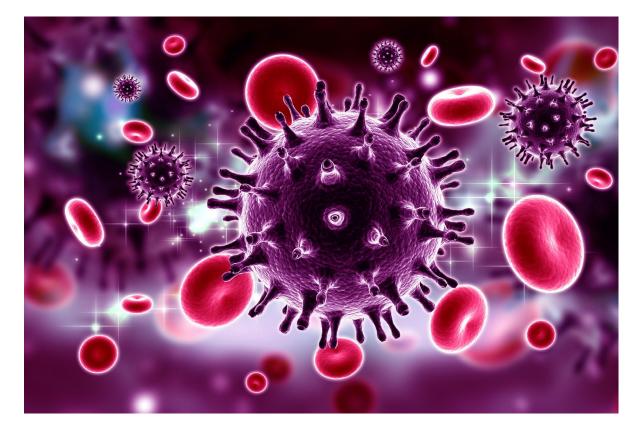
The **only** way to know for sure is to **GET TESTED!** 





### Do you know the source patient's HIV Status

- Often in cases of sexual assault the source patient status will be unknown
- If HIV status positive
  - Are they undetected
  - U=U (undetectable = untransmissible)

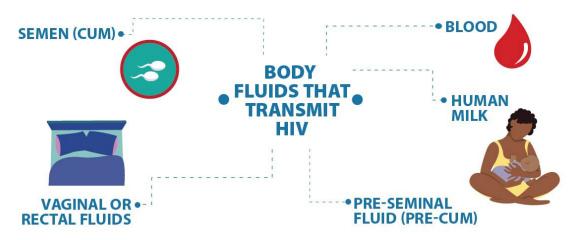




#### What was the exposure

Nonoccupational HIV PEP should only be used in the setting of "substantial risk for HIV acquisition," defined as contact involving an area of the body known to be associated with HIV acquisition (vagina, rectum, eye, mouth, or other mucous membranes, nonintact skin, or percutaneous needlestick injuries) with an infectious body fluid (e.g., blood, semen, vaginal secretions, rectal secretions, breast milk, or any other body fluid visibly contaminated with blood).

# Only **certain body fluids** from a person who has HIV **can transmit HIV**.





#### Risk

#### Table 1. Estimated Per-Act Probability of Acquiring HIV from an Infected Source, by Exposure Act<sup>\*</sup>

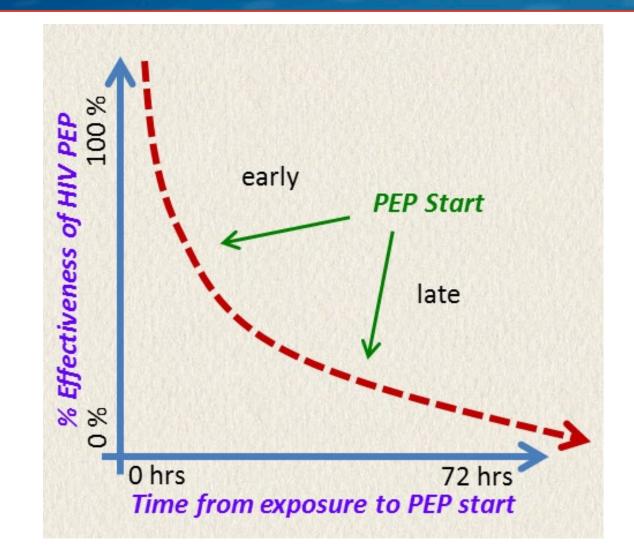
Exposure Type	Rate for HIV Acquisition per 10,000 Exposures		
Parenteral			
Blood transfusion	9,250		
Needle sharing during injection drug use	63		
Percutaneous (needlestick)	23		
Sexual			
Receptive anal intercourse	138		
Insertive anal intercourse	11		
Receptive penile-vaginal intercourse	8		
Insertive penile-vaginal intercourse	4		
Receptive oral intercourse	Low		
Insertive oral intercourse	Low		
Other			
Biting	Negligible		
Spitting	Negligible		
Throwing body fluids (including semen or saliva)	Negligible		
Sharing sex toys	Negligible		



Centers for Disease Control and Prevention: U.S. Department of Health and Human Services. Updated Guidelines for Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, and Other Nonoccupational Exposure to HIV—United States, 2016.

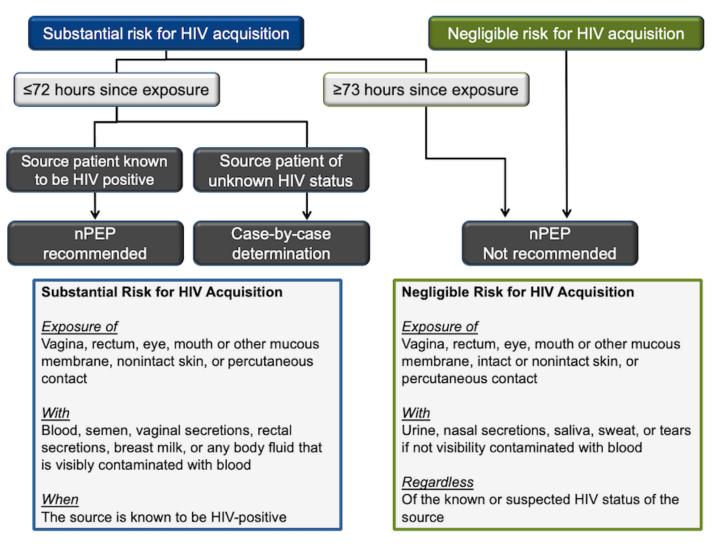
# When did it occur

- Multiple studies have demonstrated PEP is only beneficial if started within 72 hrs
  - If multiple exposures, can initiate within 72 hrs after last exposure





### nPEP Decision Algorithm





#### www.hiv.uw.edu/go/prevention/nonoccupational-postexposure-prophylaxis/core-concept/all

### nonoccupational Post Exposure Prophylaxis: Medication Options

• Preferred Regimen:

Tenofovir Disoproxil Fumarate/Emtricitabine 200/300mg 1qd (Truvada) plus Dolutegravir 50mg 1qd x 28 days or Raltegravir 400mg BID

- Prefer to prescribe both together for 28-day supply initially
- Prefer once a day dosing for simplicity and improved compliance

Dolutegravir (DTG) became a preferred medication in pregnancy in 2022 after additional research was obtained to demonstrate no significant increased NTD risk for patients taking DTG vs other ART medications.



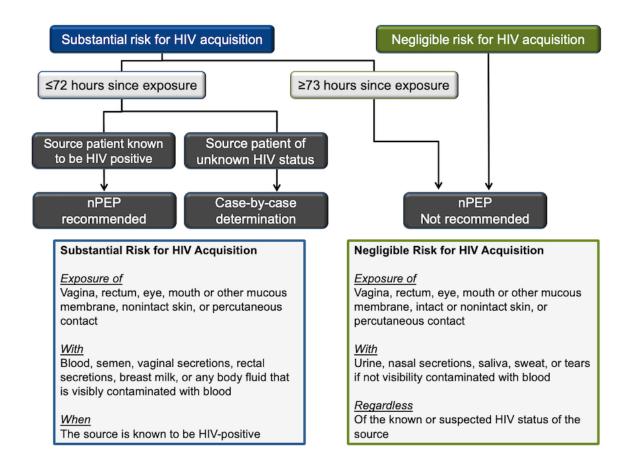
www.hiv.uw.edu/go/prevention/nonoccupational-postexposure-prophylaxis/core-concept/all

#### What is nPEP: nonoccupational Post Exposure Prophylaxis

• TDF/FTC 200/300mg 1qd (Truvada) plus

Raltegravir 400mg BID <u>or</u> Dolutegravir 50mg 1qd x 28 days

- Determine if PEP is necessary
- Start within 72 hours of exposure
- Determine if client should transition from PEP→PrEP
- Ensure follow-up labs occur





### What is PrEP?

- A prevention strategy in which a high-risk individual takes a medication regularly (along with continued behavioral riskreduction strategies) to prevent HIV infection
- Medication first became available in 2012
- United States PrEP guidelines first published in 2014
- U.S. Preventative Task Force classified PrEP as a
- grade A recommendation in June 2019
  - Insurance coverage improved
- First injectable Medication approved January 2022

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



of people who could potentially benefit from PrEP are African American – approximately 500,000 people... ...but only 1% of those – 7,000 African Americans – were prescribed PrEP\*





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



# Who May Benefit from PrEP

- Anyone who self-identifies a need for PrEP
- People with partners living with or at-risk for HIV
- People with any of the following risk factors in the past 6

months

- Bacterial STI (gonorrhea, syphilis, any rectal STI)
- Condomless anal sex
- Transactional sex
- Injection drug use with shared needles and/or shared equipment
- Some populations are at higher risk based on epidemiology

and sexual networks

- MSM
- Trans women

Additional risk factor if the patient's partners would benefit from PrEP





# PrEP Indications following CDC 2021 Updates

- <u>All</u> sexually active adults and adolescents should be informed about PrEP
- Patients who request PrEP should be offered it, even when no specific risk behaviors are elicited.
- Because most people who inject drugs are also sexually active, they should be assessed for sexual risk.

#### What is PrEP?

PrEP (pre-exposure prophylaxis) is a once-a-day pill taken to prevent HIV



#### **The benefits of PrEP**

When taken consistenly, PrEP can reduce the risk of contracting HIV by 99%



PrEP is most effective when combined with condoms and other prevention tools

#### PrEP is recommended for anyone wanting to prevent HIV and is for those who are:

- Sexually active with a HIV+ partner
- Sexually active with men who have sex with men, more than one partner, or your partner has more than one partner
- Having anal or vaginal sex and not consistently using condoms
- An intravenous drug user who shares needles, syringes, or other equipment to inject drugs





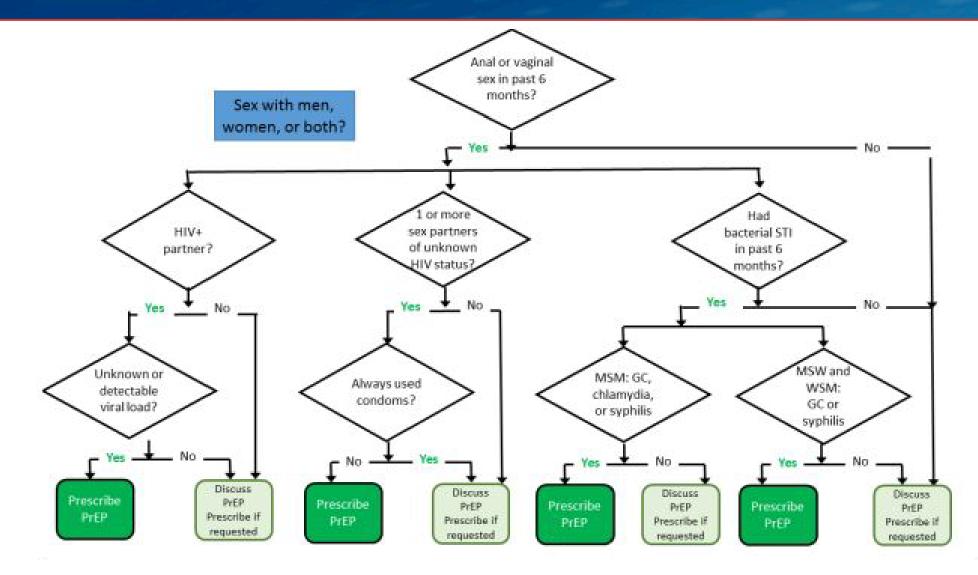
### **PrEP Medications**

- **Tenofovir DF-emtricitabine**: TDF/FTC (Truvada) approved for HIV PrEP by the FDA in July 2012
- **Tenofovir AF-emtricitabine**: TAF/FTC (Descovy) approved for HIV PrEP by FDA October 3, 2019
  - Approved for males and transgender women
  - Not approved for women or on-demand dosing
- Added benefits: some protection against HSV and HBV
- Long acting Cabotegravir Injection: CAB (Apretude)
  - Every other month injection (after loading dose)



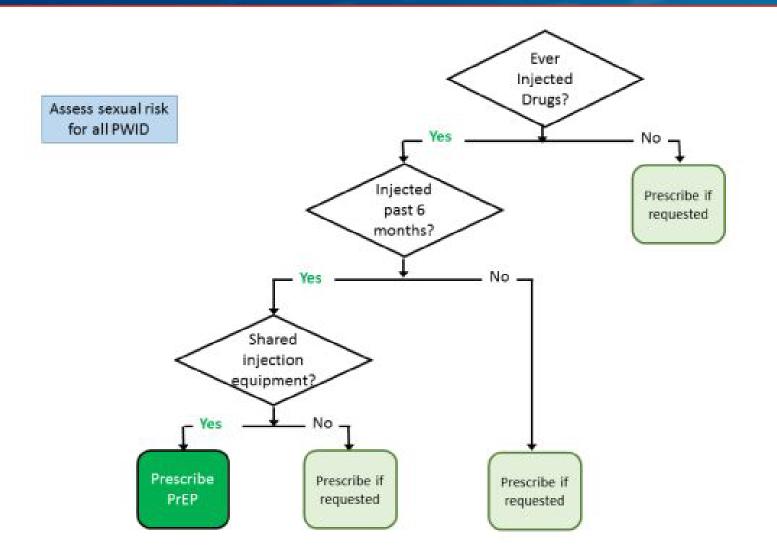


### Assessing PrEP indication: Sex Risk



MWAETC

### Assessing PrEP Indication: IDU





# Lab Testing for F/TDF, F/TAF

#### Table 5 Timing of Oral PrEP-associated Laboratory Tests

Test	Screening/Baseline	Q 3 months	Q 6 months	Q 12 months	When stopping
	Visit				PrEP
HIV Test	X*	Х			X*
eCrCl	Х		If age ≥50 or	If age <50 and	Х
			eCrCL <90	eCrCl≥90	
			ml/min at	ml/min at	
			PrEP	PrEP	
			initiation	initiation	
Syphilis	Х	MSM /TGW	Х		MSM/TGW
Gonorrhea	Х	MSM /TGW	Х		MSM /TGW
Chlamydia	Х	MSM /TGW	Х		MSM /TGW
Lipid panel	Х			Х	
(F/TAF)					
Hep B serology	Х				
Hep C serology	MSM, TGW, and			MSM,TGW,	
	PWID only			and PWID	
	-			only	

\* Assess for acute HIV infection (see Figure 4)



### Lab Testing for Cabotegravir

Table 7	Timing of	CAB	PrEP-associated	Laboratory	Tests
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Test	Initiation Visit	1 month visit	Q2 months	Q4 months	Q6 months	Q12 months	When Stopping
							CAB
HIV*	Х	Х	Х	X	Х	Х	Х
Syphilis	Х			MSM^/TGW~ only	Heterosexually active women and men only	Х	MSM/TGW only
Gonorrhea	X			MSM/TGW only	Heterosexually active women and men only	х	MSM/TGW only
Chlamydia	X			MSM/TGW only	MSM/TGW only	Heterosexually active women and men only	MSM/TGW only

\* HIV-1 RNA assay

X all PrEP patients

^ men who have sex with men

~ persons assigned male sex at birth whose gender identification is female



# PrEP Summary of Recommendations: Oral Meds

#### Table 1a: Summary of Clinician Guidance for Daily Oral PrEP Use

- TDF not recommended for CrCl<60
- TAF not recommended for CrCl <30</li>

	Sexually-Active Adults and Adolescents <sup>1</sup>	Persons Who Inject Drug <sup>2</sup>
Identifying substantial risk of acquiring HIV infection	<ul> <li>Anal or vaginal sex in past 6 months AND any of the following:</li> <li>HIV-positive sexual partner (especially if partner has an unknown or detectable viral load)</li> <li>Bacterial STI in past 6 months<sup>3</sup></li> <li>History of inconsistent or no condom use with sexual partner(s)</li> </ul>	HIV-positive injecting partner OR Sharing injection equipment
Clinically eligible	ALL OF THE FOLLOWING CONDITIONS ARE MET:           • Documented negative HIV Ag/Ab test result within 1 week before initially prescribing PrE           • No signs/symptoms of acute HIV infection           • Estimated creatinine clearance ≥30 ml/min <sup>4</sup> • No contraindicated medications	р
Dosage	<ul> <li>Daily, continuing, oral doses of F/TDF (Truvada®), ≤90-day supply OR</li> <li>For men and transgender women at risk for sexual acquisition of HIV; daily, continuing, ora day supply</li> </ul>	l doses of F/TAF (Descovy®), ≤90-
Follow-up care	Follow-up visits at least every 3 months to provide the following:         • HIV Ag/Ab test and HIV-1 RNA assay, medication adherence and behavioral risk reductio         • Bacterial STI screening for MSM and transgender women who have sex with men <sup>3</sup> – oral,         • Access to clean needles/syringes and drug treatment services for PWID         Follow-up visits every 6 months to provide the following:         • Assess renal function for patients aged ≥50 years or who have an eCrCl <90 ml/min at PrE	rectal, urine, blood P initiation

<sup>1</sup> adolescents weighing at least 35 kg (77 lb)

<sup>2</sup>Because most PWID are also sexually active, they should be assessed for sexual risk and provided the option of CAB for PrEP when indicated

<sup>3</sup> Sexually transmitted infection (STI): Gonorrhea, chlamydia, and syphilis for MSM and transgender women who have sex with men including those who inject drugs; Gonorrhea and syphilis for heterosexual women and men including persons who inject drugs

<sup>4</sup> estimated creatine clearance (eCrCl) by Cockcroft Gault formula ≥60 ml/min for F/TDF use, ≥30 ml/min for F/TAF use



# **PrEP Summary of Recommendations: Injection**

#### Table 1b: Summary of Clinician Guidance for Cabotegravir Injection PrEP Use

#### Sexually-Active Adults Persons Who Inject Drugs<sup>1</sup> Anal or vaginal sex in past 6 months AND any of the following: Identifying HIV-positive injecting partner substantial · HIV-positive sexual partner (especially if partner has an unknown or detectable viral load) OR risk of acquiring Bacterial STI in past 6 months<sup>2</sup> Sharing injection equipment HIV infection · History of inconsistent or no condom use with sexual partner(s) ALL OF THE FOLLOWING CONDITIONS ARE MET: Clinically eligible · Documented negative HIV Ag/Ab test result within 1 week before initial cabotegravir injection · No signs/symptoms of acute HIV infection · No contraindicated medications or conditions Dosage · 600 mg cabotegravir administered as one 3 ml intramuscular injection in the gluteal muscle o Initial dose Second dose 4 weeks after first dose (month 1 follow-up visit) Every 8 weeks thereafter (month 3,5,7, follow-up visits etc) Follow-up care At follow-up visit 1 month after first injection HIV Ag/Ab test and HIV-1 RNA assay At follow-up visits every 2 months (beginning with the third injection - month 3) provide the following: HIV Ag/Ab test and HIV-1 RNA assay · Access to clean needles/syringes and drug treatment services for PWID At follow-up visits every 4 months (beginning with the third injection- month 3) provide the following: · Bacterial STI screening<sup>2</sup> for MSM and transgender women who have sex with men<sup>2</sup> - oral, rectal, urine, blood At follow-up visits every 6 months (beginning with the fifth injection - month 7) provide the following: Bacterial STI screening<sup>1</sup> for all heterosexually-active women and men – [vaginal, rectal, urine - as indicated], blood At follow-up visits at least every 12 months (after the first injection) provide the following: · Assess desire to continue injections for PrEP · Chlamydia screening for heterosexually active women and men - vaginal, urine At follow-up visits when discontinuing cabotegravir injections provide the following:

<sup>3</sup> Because most PWID are also sexually active, they should be assessed for sexual risk and provided the option of CAB for PrEP when indicated <sup>3</sup> Sexually transmitted infection (STI): Gonorrhea, chlamydia, and syphilis for MSM and transgender women who have sex with men including those who inject drugs; Gonorrhea and syphilis for heterosexual women and me including persons who inject drugs

Preexposure Prophylaxis for the Prevention of HIV Infection in the United States – 2021 Update Clinical Practice Guideline Page 16 of 108

- Re-educate patients about the "tail" and the risks during declining CAB levels
   Assess ongoing HIV risk and prevention plans
   If PrEP is indicated, prescribe daily oral F/TDF or F/TAF beginning within 8 weeks after last injection
   Continue follow-up visits with HIV testing quarterly for 12 months
- Continue follow-up visits with HIV testing quarterly for 12 months



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

Lab Interval Change

months

per risk)

HIV Ab/Ag screening plus

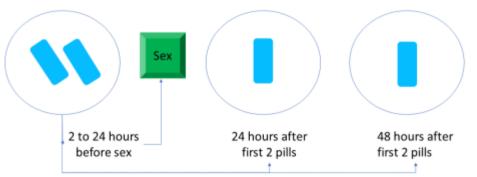
STI screening every 4

HIV-1 RNA assay every 2

months (more frequently

### On Demand/2-1-1 PrEP

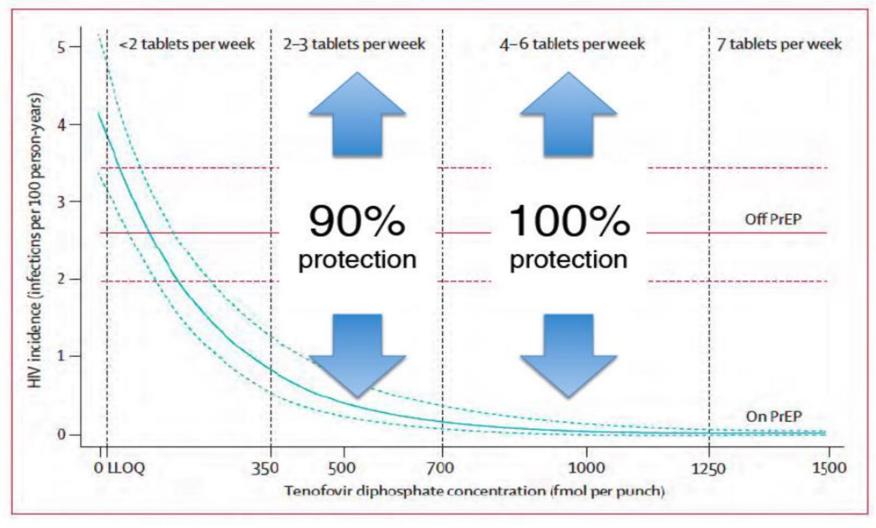
- Process of taking PrEP only when engaging in high risk behavior
- No U.S. Guidelines, consideration added to PrEP 2021 update
- Consider in men or transgender women whose risk factor is sexual activity
- TDF/FTC obtains max concentrations in rectal tissue within 7 days of continued use vs 20 days in blood and cervical/vaginal tissue.
- PrEP 2-1-1
  - Take two tablets 2-24 hrs before high risk event, one tablet 24 hrs after, and one tablet 48 hrs after. If High risk events continue, then continue with daily PrEP dosing.



- If next sexual encounter is <7 days after last took pill, restart 1 pill daily
- If next sexual encounter is >7 days after last took pill, restart with 2 pills
- If high risk continues, continue with 1 pill a day
- Prescribe 30 pills at a time



# iPrEx OLE confirmed prior estimates

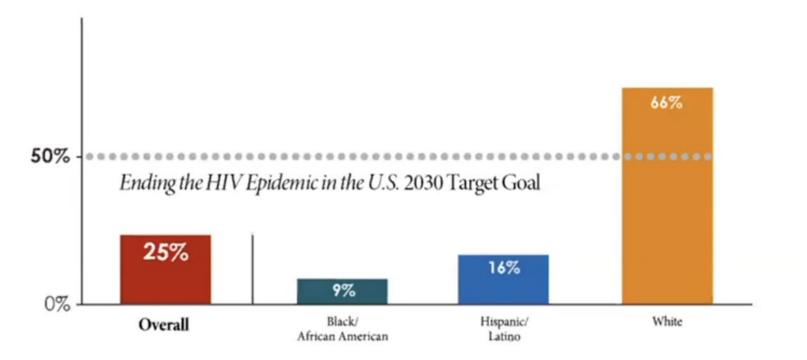


Grant RM, et al. Lancet Inf Dis. Sep 2014;14(9):820-9

### **Continued Engagement and Decreasing Disparities**

#### WHILE 25% OF PEOPLE ELIGIBLE FOR PREP WERE PRESCRIBED IT IN 2020, COVERAGE IS NOT EQUAL

#### PREP COVERAGE IN THE U.S. BY RACE/ETHNICITY, 2020





**CDC HIV Surveillance Data Tables**, 2021

### **PrEP Discontinuation**

- Discontinuation only if:
  - Per patient request/risk decrease
  - Safety concerns related to medication, may consider alternative approved medication
  - Patient becomes HIV positive
  - Continue PrEP for at least 28 days after high risk situation
  - If Patient wishes to Restart PrEP the same pre-treatment eval should be performed
  - Remember to screen for HIV/STIs per risk even after PrEP is stopped







# **HIV Care: Linkage to Care**

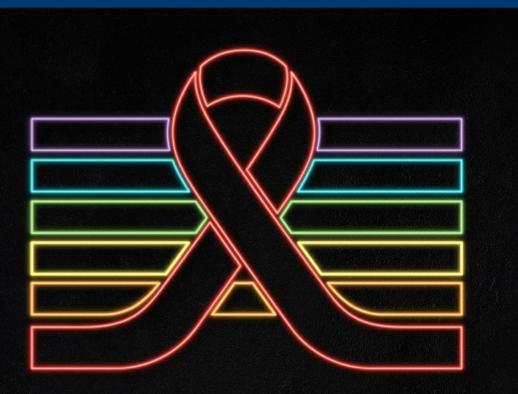


#### Rapid ART Start

- Rapid start of ART (antiretroviral therapy):
   Starting ART as soon as patient is willing after HIV diagnosis, goal within 1 week.
  - has showed better engagement and retention in care
  - Overtime decreased inflammation within the body, linked to decreased CVD
  - Regimens available that can be started prior to all lab results returning
    - Avoid regimens containing abacavir
    - Should cover HBV unless aware of immune status
  - Patient must be willing, ready and able without contraindications
- Obtain recommended labs at first visit and start ART-do not wait for labs to return to start ART, can modify regimen if needed when resistance results and other labs result.

Utilize YKHC Raven power plans: HIV





### Resources

# LET'S STOP HIV TOGETHER

Learn more at cdc.gov/stophivtogether



#### ANTHC Early Intervention Services/HIV Clinical Team Program: (907)729-2907 Hospital on-call ID: (907)563-2662

#### Clinicians

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#### **Program Support Team**

Linda Hogins, CMA Minnie Chavez, ACM

Laura Riley, Sr. Program Manager Jenn Arnold, AETC Coordinator Jeni Williamson, Rural Navigator, ECHO Coordinator



### **PrEP Resources: Navigation**









HIV-prevention and payment assistance resources in English and Spanish. Search for PrEP providers in your area.

For patients and providers.

In collaboration with NPIN/PrEPLocator.

#### Find a PrEP Provider

0

Enter your city or ZIP code

- OR -Use the interactive map to search by state Not sure how to search for a PrEP Provider? Set tips here.







# **PrEP Resources: Clinical Guidance**

#### National PrEP Line: Free clinician consultations

#### **PrEP: Pre-Exposure Prophylaxis**



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

#### nccc.ucsf.edu

CLINICIAN CONSULTATION CENTER



#### Alaskan AIDS Education and Training Center (AETC)

- Alaska AIDS Education and Training Centers offers a wide range of training opportunities for health professionals, including lectures, preceptorships, webinars, and conferences.
- Delivers innovative education and training to improve access to care and quality of life for people with or are at increased risk for acquiring HIV.
  - Education and training
  - Clinical consultation
  - Capacity building assistance on prevention, diagnosis, and treatment of HIV and commonly associated co-morbidities
- For more information, please contact AETC@anthc.org





# Since National HIV Curriculum

#### FREE CME, MOC, CNE, Pharmacology CE, and CE

Free, up-to-date website for novice to expert clinicians to learn about HIV diagnosis, treatment, and prevention



Recertified for CE in fall 2020, six modules with 37 lessons and corresponding question bank topics address: Screening and Diagnosis
Basic HIV Primary Care
Antiretroviral Therapy

- Co-Occurring Conditions
- Prevention of HIV
- Key Populations

The National HIV Curriculum is an AIDS Education and Training Center (AETC) Program supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services as part of an award totaling \$1,000,000 with 0% financed with non-governmental sources.



# www.hivprep.uw.edu

This free curriculum addresses how to assess, initiate, and monitor HIV PrEP.

- **11 lessons** offer 14 free CME credit, CNE and CE contact hours, 10 pharmacology CE for APNs, and Certificates of Completion
- HIV PrEP Training Certificate available in HIV PrEP Fundamentals Module
- HIV PrEP Tools for Clinicians app supports interactions with patient from assessment and medication selection to what labs to order
- Experts discuss relevant topics via Mini-Lectures, Panel Discussions, and Interviews
- 4 concise HIV PrEP Clinical Guides review HIV PrEP studies, injectable cabotegravir, on-demand dosing, and recommended lab tests
- A learning group tool for healthcare entities & training programs to enroll members, assign units, and track progress

#### www.iwantthekit.org

- I Want the Kit (IWTK) is an STI self-collection, mailbased program that started at the Johns Hopkins University School of Medicine (JHU) in 2004.
- Since 2011, ANTHC has partnered with JHU to provide testing of self-swab samples for chlamydia, gonorrhea and trichomoniasis.
- The Alaska-based service is working on expanding the service to include testing for HIV, Hepatitis C, Hepatitis B and syphilis using a finger prick blood collection.
- For more information, email: <u>alaskakit@anthc.org</u>





Alaska Infectious Disease ECHO: HCV, HIV, PrEP and common STIs Second Tuesday of every month from noon-1 PM AKST

- Enduring CEs Available
  - HIV Update
  - Syphilis 101
  - Congenital Syphilis
  - PrEP mini-series



www.anthc.org/ak-id-echo // akidecho@anthc.org



#### Questions

# Leah Besh PA-C, AAHIVS

*Director HIV Clinical Services* Alaska Native Tribal Health Consortium

TigerText for urgent concerns Email: labesh@anthc.org aetc@anthc.org-for training inquiries ANTHC Early Intervention Services HIV Program: 907-729-2907



