

Sexually Transmitted Infection Prevention

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Objectives



Be comfortable discussing the topic with patients



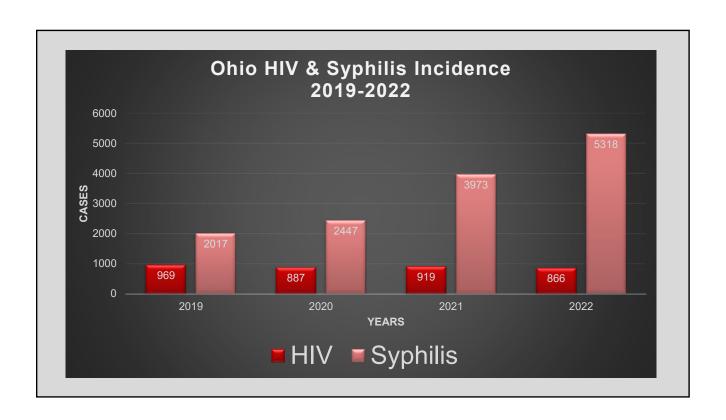
Understand the need and target patient population

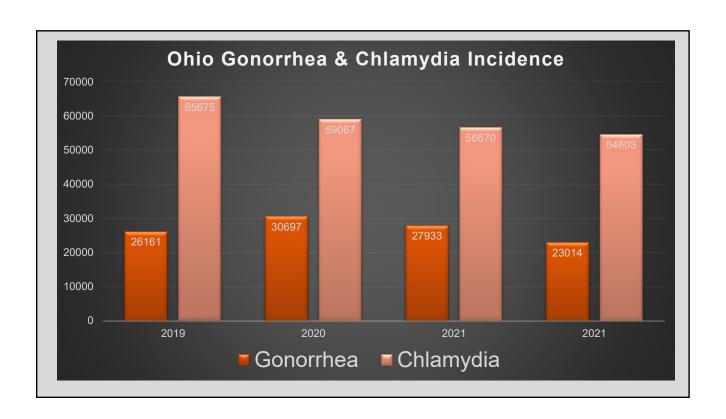


Understand the options



Understand associated risks





o ask some questions about your sexual health ure I give you the care you deserve.	
ou have sex with? How many partners have you past year?	
ing sex do you have vaginal, anal, and oral sex?	
What forms of protection do you use? How often do you have unprotected sex?	
s have you had before? How were you treated?	
ay with getting pregnant if it happens by	
er exchange sex for drugs or money?	

STI Prevention Options

- Medications Pre and post exposure prophylaxis
 - HIV PrEP and DoxyPEP
- Risk Factor Modification condom use, drug use, perinatal exposures
- Treatment as prevention (U=U)

Bacterial STI Prevention

DoxyPEP is the use of antibiotic medication by people without known STI to protect themselves from chlamydia, syphilis, and gonorrhea

DoxyPEP is recommended for all gay, bisexual, and other (MSM) and transgender women with a history of at least one bacterial sexually transmitted infection during the past 12 months

Doxycycline 200 mg is a common tetracycline antibiotic that is well tolerated

Administration:

Take Doxycycline 200 mg within 72 hours of unprotected sexual encounter. Do not take more than 200 mg per day

DoxyPEP Data Summary

Study	Population	Summary Result
IPERGAY	232 MSM/TGWSM on HIV PrEP	Risk reduction in Chlamydia and Syphilis. (lack of significance Gonorrhea**)
DoxyPEP	174 MSM/TGWSM PLWH; 327 MSM/TGWSM on HIV PrEP	Risk Reduction Gonorrhea, Chlamydia, Syphilis
ANRS DOXYVAC	502 MSM/TGWSM on HIV PrEP	Risk Reduction gonorrhea, Chlamydia, Syphilis
dPEP	449 Cis-gender Women on HIV PrEP	No statistical significance*

Implementation

- I prescribe 30(100 mg) tablets with 1 refill
 - 30 encounters
- Follow up every 3-6 months for testing/counseling
- Separate doxycycline dose by at least 2 hours from dairy products, antacids, and supplements that contain calcium, iron, magnesium, or sodium bicarbonate

Ongoing Assessment DoxyPEP

- Every 3 months
 - Gonorrhea
 - Chlamydia
 - Syphilis
 - HIV
- Assess risk factors, educate, treat any infections

- Every 3-6 months (if not on HIV PrEP)
 - Gonorrhea
 - Chlamydia
 - Syphilis
 - HIV
- Assess risk factors, educate, treat infection
- Assess need for HIV PrEP/ Preventative care

Considerations & Adverse Effects

- Gastrointestinal side effects, Photosensitivity, esophageal sensitivity
- Increased tetracycline resistance genes among participant microbiome
- Unknown effects of doxycycline on primary syphilis/RPR
- No proven efficacy with vaginal sex.

HIV PrEP Options

PrEP is the use of antiretroviral medications by people without HIV to protect themselves from getting HIV

PrEP is recommended for adults and adolescents weighing at least 35 kg (77 lb) who are at risk of getting HIV

Injectable PrEP

Cabotegravir (CAB) 600 mg injection (brand name Apretude®)

*On going trials for Lenacapravir

Oral PrEP

Emtricitabine (F) 200 mg in combination with tenofovir disoproxil fumarate (TDF) 300 mg (F/TDF – brand name Truvada® or generic equivalent)

Emtricitabine (F) 200 mg in combination with tenofovir alafenamide (TAF) 25 mg (F/TAF – brand name Descovy®)*

*F/TAF is not approved for use by women or other people who could get HIV through receptive vaginal sex

Side Effects	F/TDF (oral PrEP)	F/TAF (oral PrEP)	CAB (injectable PrEP)
Start-up Syndrome	 <10% of patients Headache, nausea, abdominal discomfort lasting <1 month¹ 	<10% of patients Headache, nausea, abdominal discomfort lasting <1 month¹	- No reported start-up syndrome ¹
Nidney Safety	Small decrease in creatinine clearance Resolves after stopping drug ²	 Less risk of kidney-related side effects³ 	No reported risk of kidney-related side effects ¹
Bone Safety	Small decreases in bone mineral density Not associated with fractures ⁴	- No reported bone safety issues ¹	- No reported bone safety issues ¹
Injection Site Reactions	- N/A	- N/A	Pain, tenderness, local skin swelling Typically, mild/moderate, brief ^s
Weight and Lipids	No reported effects on weight or lipid levels ¹	Weight gain Increased triglycerides ³	No reported effects on weight or lipid levels ¹
Overall Safety		e generally well tolerated, with side	

Baseline Laboratory Testing REQUIRED Hepatitis B screening (F/TAF and F/TDF) HIV test (antigen/antibody test, because active infection is a potential safety preferably laboratory based) to confirm negative status issue **Kidney function Lipid profile** (triglyceride and cholesterol levels) for patients prescribed **F/TAF**, as this medication F/TDF: Estimated creatinine may be associated with triglyceride elevation clearance (must be >60 mL/min) F/TAF: Estimated creatinine STI tests for chlamydia, gonorrhea, and syphilis clearance for all sexually active adults (must be >30 mL/min) **CAB:** Not required Centers for Disease Control and Prevention, US Public Health Service. Preexposure prophylaxis for the prevention of HIV infection in the United States—2021 update—a clinical practice guideline. Published December 2021. Accessed January 20,

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Ongoing Assessment (Oral PrEP)

- Every 3 months
 - Gonorrhea
 - Chlamydia
 - Syphilis
 - HIV
- Assess risk factors, educate, treat any infectious found

- Every year
 - HIV Viral Load
 - Creatinine Clearance
 - Weight, Lipid Panel

Ongoing Assessment (Injectable PrEP)

Every 2 months (Infusion visits)

- HIV, HIV Viral Load
- · Promote adherence

Every 4 months

- Gonorrhea
- Chlamydia
- Syphilis
- Promote adherence, assess risk factors, educate, treat any infectious found

Summary

- Doxycycline can be prescribed to MSM/TGW to decrease Gonorrhea, Chlamydia, Syphilis incidence
- HIV PrEP decreases risk of getting HIV
- Neither option is 100% effective
- PrEP/PEP visits are a good way to increase patient engagement and provide counseling

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