Testing and Treating (and Preventing) STIs in People Living with HIV

Meredith Clement, MD

Assistant Professor of Medicine Louisiana State University New Orleans, Louisiana

1

Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years:

Dr Clement reports research grants paid to her institution from Gilead Sciences, Inc., ViiV Healthcare, and Janssen. She has been on Advisory Boards for Viiv Healthcare. She receives royalties from UpToDate, Inc. (Updated 03/17/23).

Slide

2

Learning Objectives

After attending this presentation, learners will be able to:

- Manage and treat STIs in People with HIV
- Describe recent updates to CDC guidelines
- Weigh risks and benefits of antibiotic prophylaxis for STIs

Slide 3

Outline

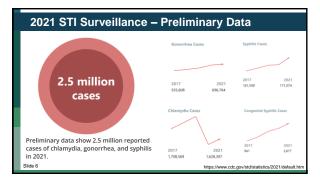
- STI Epi Overview
- Testing and Treatment Updates
- Recent data on STI Prevention
- Mpox

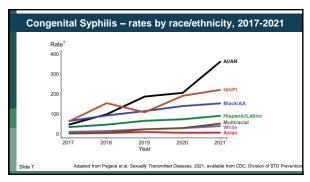
4

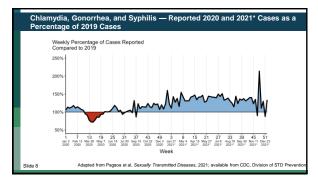
Outline

- STI Epi Overview
- Testing and Treatment Updates
- Recent data on STI Prevention
- Mpox

5

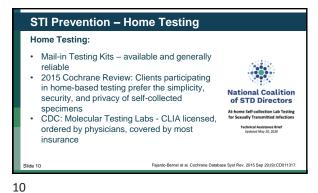






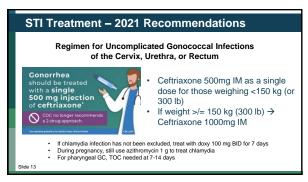
8

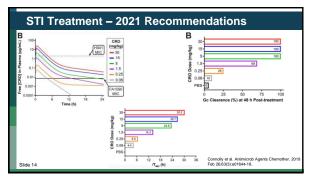
Outline STI Epi Overview Testing and Treatment Updates Recent data on STI Prevention Mpox



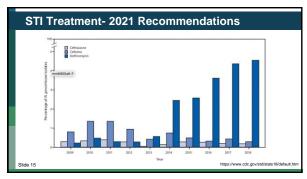


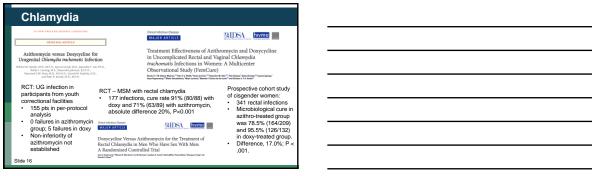
STI Treatment- 2021 Recommendations Sexually Transmitted Infections Summary of CDC Treatment Guidelines—2021 Updates for the following STIs: Gonorrhea Chlamydia Trichomonas vaginalis PID





14





Chlamydia

- Treat uncomplicated pharyngeal, rectal, or urogenital infections with doxycycline 100mg BID x 7 days
- Alternative: Azithromycin 1 g x one dose
- Azithromycin for pregnant women
- Don't forget LGV: extend course to 21 days if bloody discharge, perianal or mucosal ulcers, or tenesmus with positive chlamydia test

Slide 1

17

ARS Question 1

A 43-yo cisgender woman with HIV presents to your HIV clinic for routine care. She takes bictegravir/emtricitabine/tenofovir alafenamide with good adherence. She has had two sexual partners in the past year. She has always had normal Pap smears and is on a schedule of receiving them every three years; her last Pap two years ago was normal. She has not had STI screening in recent years and requests testing today. In addition to ordering tests for syphilis, gonorrhea, and chlamydia, what other testing should be ordered?

- a. HPV testing
- b. Vaginal gram stainc. Vaginal culture
- d. NAAT for T. vaginalis

Slide 18

ARS Question 1

A 43-yo cisgender woman with HIV presents to your HIV clinic for routine care. She takes bictegravir/emtricitabine/tenofovir alafenamide with good adherence. She has had two sexual partners in the past year. She has always had normal Pap smears and is on a schedule of receiving them every three years; her last Pap two years ago was normal. She has not had STI screening in recent years and requests testing today. In addition to ordering tests for syphilis, gonorrhea, and chlamydia, what other testing should be ordered?

- a. HPV testingb. Vaginal gram stainc. Vaginal culture
- d. NAAT for T. vaginalis

19

Trichomonas

- Screen women with HIV upon entry to care and annually with NAAT
- Test women with discharge
- Treatment:
- Clearance can take up to 3 weeks (with NAAT)
 - Metronidazole 500 mg BID x 7 days for vaginal infections
 - Tinidazole 2g one time as alternative
 - 2g dose for men
- If persistent infection, perform resistance testing, consider combination treatment



https://www.cdc.gov/std/trichomonas/stdfact-trichomoniasis.htm

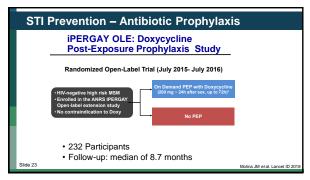
20

Pelvic Inflammatory Disease

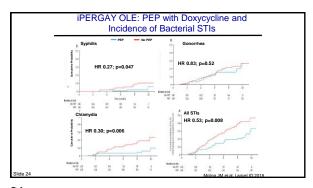
- IM/oral (outpatient) treatment:
 - Ceftriaxone 500 mg PLUS doxy 100 mg q12h x 14 days PLUS metronidazole 500 mg q12h x 14 days
- Clindamycin + gentamicin is alternative



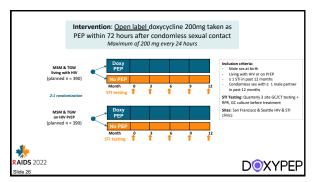




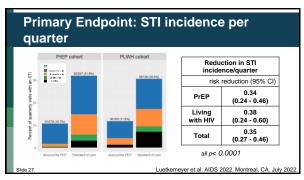
23

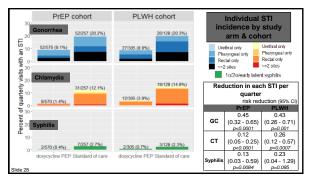


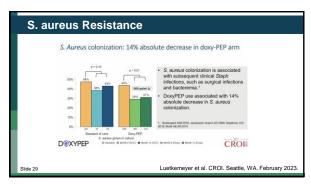




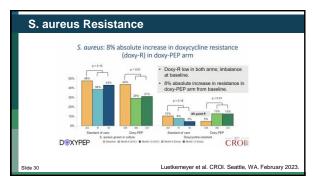
26

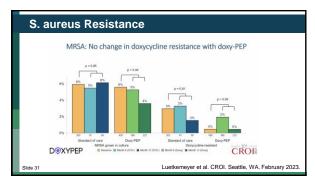


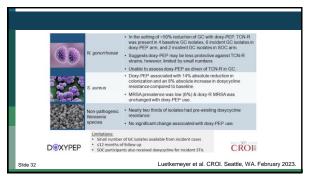




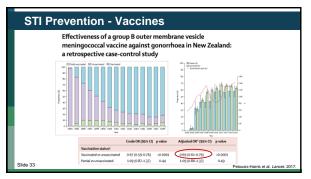
29

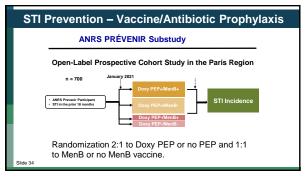


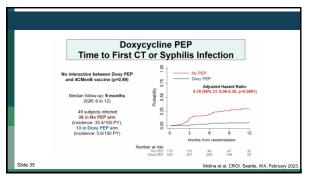




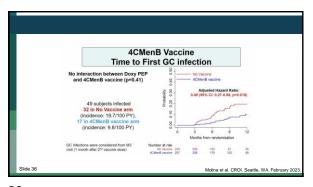
32

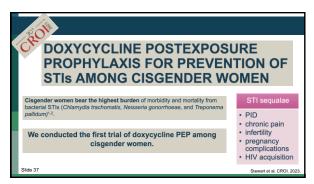


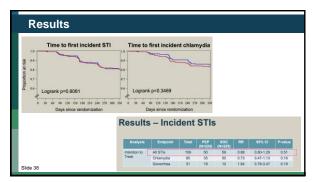




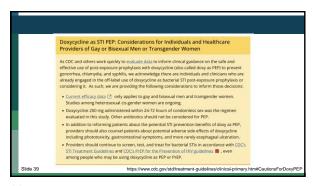
35

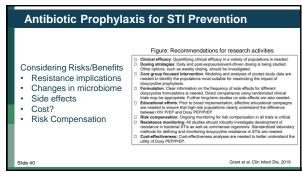






38





Outline STI Epi Overview Testing and Treatment Updates Recent data on STI Prevention Mpox

41



		es		

A 55-yo cisgender man with HIV well-known to your HIV clinic presents with painful vesicular anorectal lesions. His last CD4 count from 18 months ago was 74 (8%) with a viral load of 22,000. HSV testing is negative but his Polymerase chain reaction (PCR) testing for orthopoxvirus DNA is positive. You are concerned for Mpox and you initiate treatment with tecovirimat. All of the following populations should be prioritized for treatment except:

- a. People age 65 years and older
- b. Pregnant or breastfeeding people
 c. People with skin conditions such as psoriasis
- d. People with severe immune compromise (e.g. advanced HIV, leukemia, SOT)

43

ARS Question 2

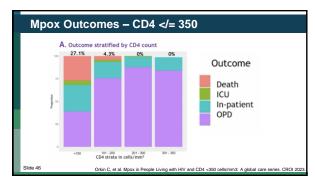
A 55-yo cisgender man with HIV well-known to your HIV clinic presents with painful vesicular anorectal lesions. His last CD4 count from 18 months ago was 74 (8%) with a viral load of 22,000. HSV testing is negative but his Polymerase chain reaction (PCR) testing for orthopoxvirus DNA is positive. You are concerned for Mpox and you initiate treatment with tecovirimat. All of the following populations should be prioritized for treatment except:

a. People age 65 years and older

- b. Pregnant or breastfeeding peoplec. People with skin conditions such as psoriasis
- d. People with severe immune compromise (e.g. advanced HIV, leukemia, SOT)

44

Mpox Outcomes - CD4 </= 350 SHARE Global distribution of SHARE-Net contributing sites Orkin C, et al. Mpox in People Living with HIV and CD4 <350 cells/mm3: A global care series. CROI 2023



DEATHS	
CD4 count (cells/mm3) - median (IQR)	35 (24-100)
Deaths with CD4 count >200	0
Death rate with CD4 <200	15% (27/179)
Death rate with CD4 <100	27%
Viral Load (log copies/ml) - median (IQR)	5 (4-5)
Complications	
Severe coalescing or necrotising skin lesions	25 (93%)
Blood stream or 20 bacterial infections	24 (89%)
Respiratory symptoms and respiratory failure	23 (85.0%)
Rectal complications	21 (78%)
Oropharyngeal	18 (78%)
Ocular	13 (48.%)
CNS	8 (30%)
Cause of death	
Septic shock and multiorgan failure	20 (74.1%)
Respiratory failure	4 (14.8%)
Disseminated mpox	2 (7.4%)
Cardiac arrest	1 (3.7%)

47



