Small Interactive Session:

Update on Sexually Transmitted Infections Advanced & Interesting Cases

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Objectives

Participants should be able to:

- Discuss clinical presentation, workup, and treatment of common STIs • Review and reference current guidelines for screening and treatment of STIs
- Recognize atypical STI presentations and treatment options
- Contextualize STIs among a diverse patient population (including relationship structures and sexual/gender diversity)

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Sex & Gender

- Assigned sex at birth (AMAB or AFAB)
- Gender = social and cultural distinctions mapped on biology
- Sexuality = attraction, behaviors, orientation

Gonorrhea/Chlamydia Screening

Screen for gc/Ct

Genital | Pharyngeal | Rectal

based on

1) exposure route 2) local guidelines 3) population prevalence

Screen women ≤25y annually

• Consider screening men \leq 25y in areas of \uparrow prevalence or risk factors

*Screening for pharyngeal Ct is not recommended due to low pr

• Screen MSM annually (Q3-6 mo for MSM at high risk)

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Men who have Sex with Men

MSM (Men who have sex with men) – a heterogeneous population of men who engage in sexual behaviors involving men MSM may identify as: Gay Men who identify their sexual orientation as "gay" Bisexual Sexual attraction to more than 1 gender

Heterosexual Sexual attraction to female presenting partners Gender nonbinary Behavior/appearance does not conform with norms Transgender Gender assigned at birth does not match identity *Identities may be temporary, before sexual debut, or after sexual sunset

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Consensual Non-Monogamy (CNM)

- Relationship structure with partners other than primary
- Examples: open, swingers, monogamish, unilateral, medical
- CNM partners
 - Are no more likely to be diagnosed with a STI
 Express similar rates of both commitment and jealousy
 - as monogamous partners

el 2015





2020 CDC Guidelines Update: Gc Treatment

Ceftriaxone 500 mg IM once

Alternative: Gentamicin 240 mg IM once + Azithromycin 2 g PO once OR Cefixime 800 mg PO Once
Weight ≥150 kg (300 lb), ceftriaxone 1g IM once
If chlamydial infection has not been excluded: doxycycline 100 mg PO BID x 7 days.
Pharyngeal gc exceptions
No alternative to ceftriaxone, consult infectious diseases specialist
If chlamydia coinfection is identified treat: doxycycline 100 mg PO BID x 7 days

Lymphogranuloma Venereum (LGV)

- Chlamydia Trachomatis serovars L1, L2, L3
- Inguinal/femoral lymphadenopathy
- +/- anogenital ulceration & severe proctitis
- Clinical diagnosis, specific diagnostic testing not widely available
- Rx: Doxycycline 100mg BID x 21 days • Partners treated with 7d doxy

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Anal Ulcers
 Differential Fissure Traumatic Severe dermatitis HSV LGV Syphilis Malignancy (SCC)

Syphilis

- Primary syphilis painless Chancre
- But, anal chancre can be **painful**
- Firm, well demarcated ulcerAppears 2-6 weeks post exposure
- Treponemal Ab testing ~6 wks
 TPPA, FTA-ABS
- RPR testing ~6-8 wks

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Syphilis Reverse Sequence Testing

Treponema Pallidum Ab testing reflexed to RPR

• Pro: sooner detection, reduced risk of false positive • Cons: limited use in patients with history of syphilis



STI Prophylaxis

2 Pilot Clinical Trials have shown doxycycline as a potential STI prophylaxis

- Doxycyline 100mg daily in HIV-positive MSM
 - 30 men who have had syphilis 2x+ since their HIV infection
 - No difference in risk behavior between groups • 70% reduction in acquisition of any STI (trend to Ct and syphilis)
 - >60% adherence by serum drug levels
- Doxycycline 100 mg 2 tab 72 hrs post-coital in MSM on PrEP
 - 232 HIV-negative MSM on intermittent PrEP
 - Median 7 pills per month (max 6 pills per week)
 - No difference in risk behavior between groups
 ~70% less likely to acquire syphilis or Chalmydia

Doxycycline for STI prophylaxis is OFF-LABEL

Bolan 2015, Molina 2017 (CROI2013

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Is counselling on safer sex effective?

- Make patients aware their risks
- Not counselling may be perceived as condoning behavior

one size fits all; there is no formula

> Focus on **Behaviors** & Anatomy

Chancroid • Caused by H. ducreyi • Diagnosis is clinical • Painful genital ulcer(s) and inguinal adenopathy • R/O syphilis and HSV • Increases risk of HIV acquisition • Treatment (any of the following) • Azithromycin 1g PO once • Ceftriaxone 250mg IM once • Ciprofloxatin 300mg PO x 3d • Erythromycin 500mg PO x 7d • Extremely rare in the US and no commercially available lab test

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Granuloma Inguinale (Donovanosis)

- Caused by Klebsiella granulomatis
- Painless, slowly progressive anogenital ulcers without lymphadenopathy
- Treatment doxycycline 100mg BID x 21 days until all lesions have completely healed
- Extremely rare in the US and no commercially available lab test

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HSV Diagnosis

NAAT/PCR for HSV DNA

 Time sensitive

 Limitations of serology

 Window period

Primary Genital HSV Features

- Extragenital manifestations common
- Fever, HA, malaise, myalgias
- Aseptic meningitis rare
- New lesions can manifest 4-10d after onset

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Recurrent Genital HSV Features

• Prodromal symptoms common but not always

- Recurrences in similar cutaneous distribution
- HSV 2 recurrence more common 4-5x a year

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Acyclovir	400mg	TID	7-10 days
	200mg	5x/D	7-10 days
Valacyclovir	1000mg	BID	7-10 days
Famciclovir	250mg	TID	7-10 days



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Acyclovir	400mg	TID	5 days
	800mg	BID	5 days
	800mg	TID	2 days
Valacyclovir	500mg	BID	3 days
	1g	QD	5 days
Famciclovir	125mg	BID	5 days
	1g	BID	1 day
	500mg once fo	llowe	d by 250mg BID x 2 days

Drug Resistant HSV

OFF-LABEL therapy for antiviral resistant HSV

- Cidofovir topical 1%-3% QD-BID
- Cidofovir IV 5mg/kg once weekly
- Foscarnet 40-80mg/kg IV Q8hrs until clinical resolution

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Gender Nonbinary (GNB)

"I've always been very free in terms of thinking about sexuality, so I've just tried to change that into my thoughts on gender as well. Non-binary/genderqueer is that you do not identify in a gender. You are a mixture of all different things. You are your own special creation. I've sometimes sat and questioned, do I want a sex change? It's something I still think about: 'Do I want to?' I don't think it is, When I saw the word non-binary, genderqueer, and I read into it, and I heard these people speaking, I was like, 'F*ck, that is me.'" -Sam Smith

Credit: Vanity Fair 2019; Deb Dunn PA-C GLMA 2019

Sexually Transmissable Enteric Infections

- Giardia lamblia and Hystolitica entamoeba
 - Diarrhea, gas, flatulence, cramping, nausea, dehydration, or NO SYMPTOMS
 Dx 3 stool samples on separate days ("ova and parasites")
- Giardia treatment
 - Metronidazole 250 mg PO TID x 5-7 days
 - Tinidazole 2g PO once
 - Albendazole 400mg PO QD x 5 days
- H. entamoeba treatment
 - Metronidazole 750 mg PO TID x 10 days
 - Followed by paromomycin 50mg TID x 7 days (IF symptomatic or cysts on examination of samples)

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Anolingus

Hepatitis A

- Oral-fecal transmission
- HAV vaccination recommended for MSM
- Supportive management
- 10-15% relapse in 6 months
- PEP with vaccine or immunoglobulin

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Sexual Transmission of Hepatitis

HBV

- Vaccine recommended for all patients
- PEP with HBV vaccination or immunoglobulin
- Check titers if at risk for occupational and non-occupational exposure

HCV

- $\hfill \mathsf{T}$ ransmission with fisting and anal intercourse
- \uparrow risk in MSM, HIV-positive, and PrEP users
- No known postexposure prophylaxis (PEP)
- Several multidrug PO treatments available

Human Papillomavirus (HPV)

- The most common STI
- Can affect the genital, mouth, & anus
- LR HPV can cause condyloma (uncommon)
- HR HPV can cause cancer

"Most sexually active people who are not vaccinated get HPV infection at some point in their lives, even if they only have one sexual partner." -NYC DOH

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CDC, NYC DOH

	FOR IMMEDIATE RELEASE
	Thursday, October 7, 2021
	Source: Elizabeth Fernandez (415) 502-6397
	Elizabeth Fernandez/BUCSE.edu @EFernandez/UCSF
	Treating Anal Cancer Precursor Lesions Reduces Cancer Risk for
	People With HIV
	Groundbreaking National Clinical Trial Halted Due to Therapy's High Success Rates
	Treating precursor anal cancer lesions can significantly reduce the risk of progression to full blown anal cancer among people living with HIV, according to results of a large, phase 3 study led by researchers at UC San Francisco.
	In a randomized clinical trial with 4,446 participants, known as the Anal Cancer/HSIL Outcomes Research (ANCHOR) study, researchers found that by removing high-grade squamous intrapelthelial leaions (HSIL), chances of progression to anal cancer were significantly reduced.
	The trial is the first to show such findings and was performed at 21 clinical sites around the United States. Results are being prepared for pert-reviewed publication and are being shared now because of the public health involvance of the findings.
	The study raps decades of research into the history, prevention and treatment of anal cancer and its procursors. It also provides incontant information for developing statuator of care guidelines for people at high risk of anal cancer, including screening for and treatment of anal HSIL, said lead investigator Joel Paletsky, MD, a professor of medicine at UCSF.
USCSW	"ANCHOR data show for the first time that, like cervical cancer, anal cancer, can be prevented even in







Take Home Points

- Sexually transmitted infections are common and presentations vary in different patients and anatomical sites
- Screening, testing, and treatment guidelines continue to evolve and should be used alongside clinical decision making
- Sexual history taking should be focused to understand the context for an individual's screening, testing, treatment, and risk reduction needs and opportunities
- Don't assume anything about an individual's gender or sexuality



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