Online Learning Module: Syndromic management of sexually transmitted infections

Course Objectives

 Understand how to identify and manage common vaginal and cervical infections based on a group of signs and symptoms called syndromes.

The Syndromic Approach

- Identifies consistent groups of signs and symptoms (syndromes) and treats accordingly
- Provides treatment for majority of serious organisms responsible for producing a syndrome
- Overcomes lack of laboratory infrastructure, expensive tests and special trained personnel
- Overtreatment

General signs and symptoms of STIs

- Vaginal discharge
- Pruritus (itching) of the vulva or vagina
- Lower abdominal pain
- Spotting
- Pain with urination (dysuria)
- Sexual intercourse (dyspareunia)
- Genital ulcers or warts
- Inflammation on exam

SYNDROME: Vaginal Discharge/Pruritis

Vaginal Discharge or Pruritus

 Inflammation is the most common pathological condition of the cervix and vagina. Usually caused by an infection

Discharge can be due to cervicitis
 (inflammation of the cervix) or vaginitis
 (inflammation of the vagina)

Most common causes

- Trichomonas vaginalis
- Bacterial vaginosis
- Candida albicans
- Gonoccal/Chlamydial cervicitis (Rarely)

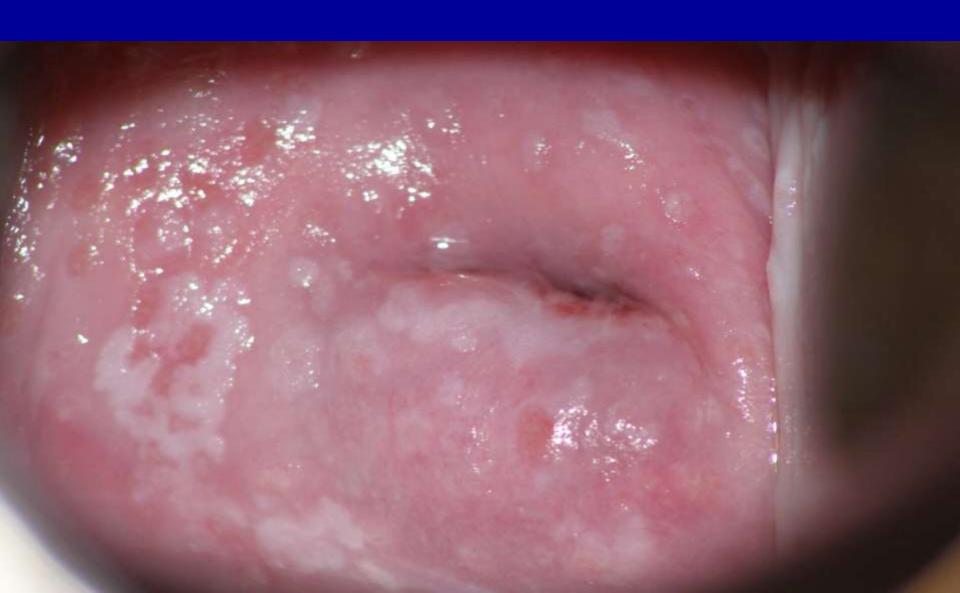
	Discharge	Itching	Inflammation	Odor
Candida	White, curd-like	Yes	Yes	No
Trich	Yellowish, frothy	Yes	Yes	Yes
Bacterial vaginosis	Greyish, white	No	No	Yes



Candidiasis



Candidiasis



 Highly predictive of vaginal infection but poorly predictive of cervical infection

 Thus, all women presenting with vaginal discharge should receive treatment for vaginitis and cervicitis.

Syndromic treatment

- Trichomoniasis or Bacterial vaginosis
 - Metronidazole (Flagyl) 2g PO, once stat
 - Metronidazole (Flagyl) 400-500mg BID x 7
- Candidiasis
 - Fluconazole 150-200mg PO, once stat
 - Clotrimazole 500mg intravag, once stat
 - Miconazole or clotrimazole 200mg intravag, daily x 3
 - Nystatin pessary daily x 5

Syndromic treatment

- Chlamydia
 - Azithromycin 1g PO, once stat
 - Doxycycline 100mg PO BID x14 d
 - Erythromycin 500mg PO QID x 7 d
- Gonorrhea
 - Ciprofloxacin 500mg PO, once stat
 - Ceftriaxone 125mg IM Stat

SYNDROME: Vaginal Discharge + Lower Abdominal Pain

Syndrome: Vaginal discharge + lower abdominal pain

Signs

- Vaginal discharge
- Lower abdominal tenderness on palpation
- Temperature > 38C

Symptoms

- Lower abdominal pain
- Dyspareunia

Syndrome: Vaginal discharge + lower abdominal pain

Most common causes

- Gonococcus
- Chlamydia
- Mixed anaerobes

Syndrome: Vaginal discharge + Lower abdominal pain

Syndromic treatment

- Chlamydia
 - Azithromycin 1g PO stat
 - Doxycycline 100mg PO BID x14 d
 - Erythromycin 500mg PO QID x14 d
- Gonorrhea
 - Ciprofloxacin 500mg PO Stat
 - Ceftriaxone 125mg IM Stat
- Mixed Anaerobes
 - Metronidazole (Flagyl) 400-500mg BID x14 d

Abdominal pain Reasons for referral

- Rebound tenderness
- Guarding
- Last menstrual period overdue
- Recent abortion or delivery
- Menorrhagia—profuse or prolonged menses
- Metrorrhagia—irregular bleeding

SYNDROME: Cervicitis

Symptoms

- Unusual vaginal discharge
- Dysuria (pain on urination)
- Dyspareunia (pain on intercourse)
- Abnormal bleeding

<u>Signs</u>

- Swollen, reddened, and "beefy" cervix
- Cervix bleeds easily when touched
- Mucopurulent or copious discharge from os

Most common causes

- Gonococcus
- Chlamydia

Syndromic treatment

Chlamydia

- Azithromycin 1g PO stat
- Doxycycline 100mg PO BID x 7
- Erythromycin 500mg PO QID x 7

Gonorrhea

- Ciprofloxacin 500mg PO Stat
- Azithromycin 2g PO Stat
- Ceftriaxone 125mg IM Stat

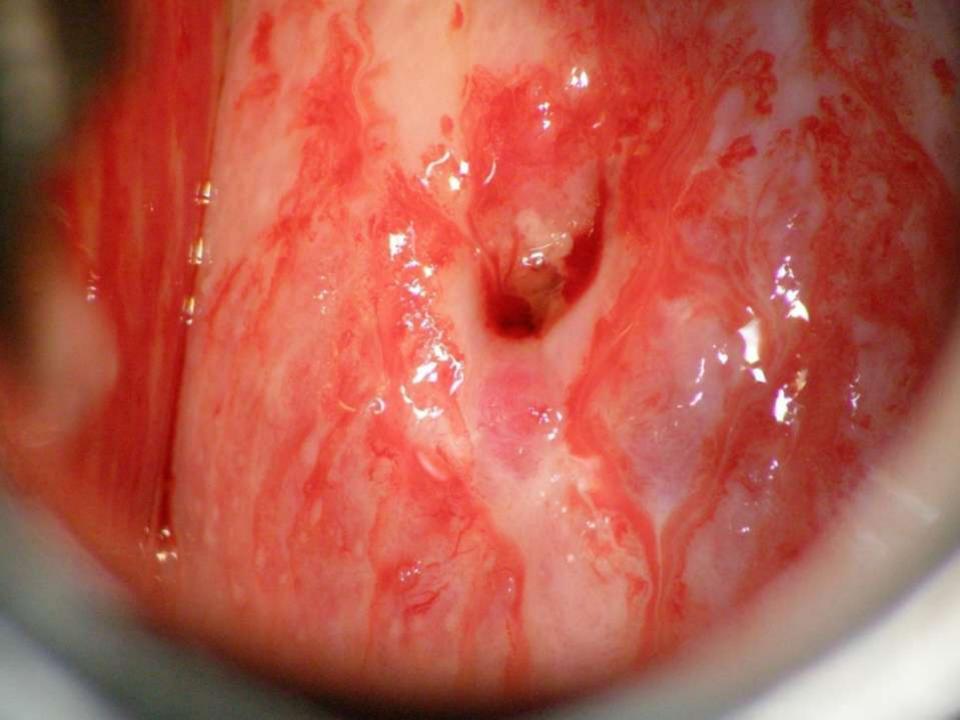


Note mucosal bleeding where purulent discharge has been wiped away.









Other counseling

- Avoid alcohol with antibiotic treatment
- Supply condoms
- Counsel regarding risk reduction
- Partner treatment
- Follow-up after completion of treatment
- Repeat VIA after treatment if necessary

Genital Ulcer Disease

Genital ulcer disease

Most common causes

- Genital herpes
- Chancroid
- Syphillis
- Associated with an increased risk of HIV infection

Genital Herpes

Characterized by multiple, painful vesicles grouped together

First episode - Bilateral

Recurrences - Unilateral

Genital herpes - First episode



Genital herpes - recurrent



Genital herpes - recurrent



Genital herpes - recurrent



Chancroid

· Cause: Haemophilus ducreyi

 Single or multiple ulcers on the labia, vagina, or anus with or without swollen inguinal lymph nodes and cervicitis.

 May be co-infected with HIV, herpes, or Treponema pallidum (syphilis)

Refer

Chancroid



Syphilis

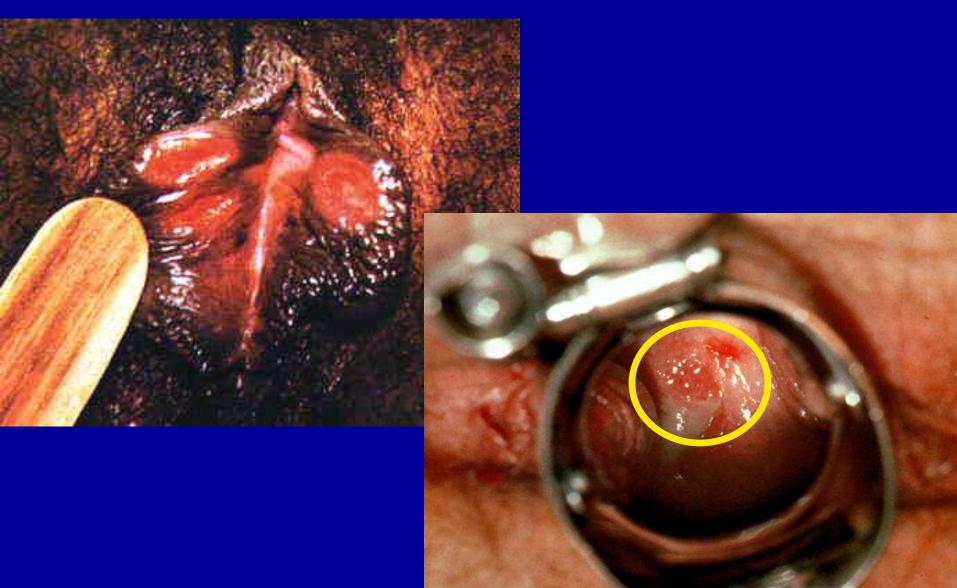
Cause: Treponema pallidum

 Characterized by painless ulcer or chancre on the vulva, vagina, or cervix

Co-infection with HIV is common

Refer

Syphilis



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- 1. The syndromic approach to STI treatment:
 - (a) Identifies patients for treatment based on signs and symptoms
 - (b) Does not require laboratory confirmation of diagnosis
 - (c) May result in overtreatment
 - (d) All of the above
- 2. The most common sexually transmitted cervical infections are:
 - (a) T pallidum infection
 - (b) Herpes virus infection
 - (c) Gonoccocal and chlamydial infection
 - (d) G. vaginalis infection

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- 3. Patients with ulcerative genital lesions should be:
 - (a) Observed closely
 - (b) Treated with Fluconazole alone
 - (c) Treated with Zidovudine (ZDV) alone
 - (d) Referred to a physician for further evaluation and treatment
- 4. Patients with acute abdominal pain and signs of peritonitis should be:
- (a) Referred for urgent physician evaluation and treatment
- (b) Treated with analgesics and discharged home
- (c) Treated with a single dose of Doxycycline
- (d) Discharged home and ask to return for re-evaluation in 48 hours

Evaluation Score

- Congratulations!
- You passed this evaluation with a score of

 Please click on the CERTIFICATE button below to print your certificate. Be sure to print & sign your name before submitting the certificate to your supervisor.

CERTIFICATE