Sexually Transmitted Diseases

• BACTERIA-PID

• PARASITES
  – PROTOZOAN
  – ECTOPARASITES

• VIRUSES

Chlamydia trachomatis

• Most common in US, 75% unreported
• Symptoms rare-65% no symptoms
• Causes PID, infertility
• 3-4 million people/yr

In women:
- unusual vaginal discharge
- burning when urinating
- lower abdominal pain
- bleeding between periods
- low fever

In men:
- discharge from the penis
- burning when urinating
- pain and swelling in the testicles
Neissera gonorrhea

- Second most common STD
- 650,000 cases/yr
- Neonatal ophthalmia
- Similar symptoms to chlamydia

Gonorrhea

Pelvic Inflammatory Disease
**Treponema pallidum: Syphilis**

- 1400’s
- Spirochete bacteria
- 4 stages
  - 1-chancre
  - 2-rash
  - 3-latent
  - 4-severe

**Sexually Transmitted Parasites**

**Trichomonas vaginalis**

- **Pathology and symptoms:**
  - Female: vaginal inflammation, creamy to yellowish frothy vaginal discharge, burning on urination, itching, irritation
  - Male: asymptomatic
  - Prostatitis, urethritis, epididymitis with hematuria, incomplete bladder emptying, wbc and rbc in urine
- **Treatment:** metronidazole, tinidazole

**Phthirus pubis**

**Pubic Lice**

- Itchy skin
- Black powder (lice droppings) in underwear
- White eggs on the hair
- Occasionally, visible lice and eggs
- Spots of blood are sometimes seen as lice feed from blood vessels close to the surface of the skin
**Viral STD’s: Herpes**

- 45 m infections in US
- Lesions shed (cast off) viruses that can infect another person
- 1st symptoms w/in 2 to 10 days
  - Itching or burning
  - Pain in the legs, buttocks, or genital area
- Discharge of fluid

Treatments: (NO CURE)
- Acyclovir (Zovirax)
- Famciclovir (Famvir)
- Valacyclovir (Valtrex)

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**Viral STD’s: Papilloma (HPV)**

- 100 types; 30 types are STIs
- 20 m people in the US; 6m new/yr
- 50% of active, 80% of women 50+
- Often no symptoms
- Skin-to-skin contact
- 2/3 will get warts
- Antiviral creams and Acid treatments
- Linked to cervical cancer

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**Viral STD’s: HIV**

- Human Immunodeficiency Virus
- AIDS-Acquired Immune Deficiency Syndrome
- Blood, vaginal fluid, semen, and breast milk
- 800,000 to 900,000 people who are HIV-positive
- 300,000 people with AIDS
- Signs of HIV disease like fevers, night sweats, diarrhea, or swollen lymph nodes