HIV/AIDS 101

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Resource teacher training

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How Many of You:

✓ Consider yourself knowledgeable about HIV/AIDS?

✓ Know someone who is infected with the HIV virus?

✓ Know someone who has died from AIDS?

✓ Have participated in a risk behavior which puts you at risk of exposure to HIV infection?
HIV/AIDS 101

- Why are you here?
- What do you want to accomplish today?
HIV/AIDS 101

- What is the newest information about HIV/AIDS?
- How do I effectively teach this material to students and others?
- How do I deal with real life situations to protect myself and others from HIV infection?
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- What is HIV Infection?
- What does it look like?
- Who is infectious?
- Who is not infectious?
- How is it spread?
- Who is at risk of getting HIV infection?
What is HIV Infection?
How is it different from AIDS?
How is AIDS defined by the CDC?
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The Virus
- RNA
- Retrovirus
- Uses Reverse Transcriptase
- T4 Cell affinity / CD4 receptor
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What is the PATHOPHYSIOLOGY of HIV infection and AIDS?
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What does HIV Infection look like?

What does AIDS look like?
The Clinical Syndrome

- Immune deficiency
- Opportunistic Infections
  - PCP/ CMV/ Herpes
- Malignancies
  - KS/ Lymphomas
- Neurological Deficits
  - Dementia
The Clinical Syndrome

- Plus UNEXPLAINED and CHRONIC
  - Weight loss
  - Fever
  - Night Sweats
  - Diarrhea
  - Fatigue
  - Adenopathy
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Who is INFECTIOUS?

Who is not INFECTIOUS?
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- How is it spread?
- How is it not spread?
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HIV is spread when an infected body fluid is introduced directly into the blood stream of a non-infected individual.
Dose Response Curve

Which body fluids carry the highest concentrations of HIV?
Modes of transmission

- Sexual
- Sharing IV equipment and drugs
- Perinatal
- Blood
- Health Care workers
- Not by casual contact
Epidemiology

- Trends
- Risk Groups vs. risk behaviors
- Ethnic variances
- Co-factors
Testing

- Screening / Confirmatory
- ELISA/ Western Blot/ NAT
- Antibody / Antigen
- Lab / Home
- Window Period / Incubation Period
Therapeutic Approach

- Counseling
- Medications - Triple drug therapy
- Vaccines
- Prevention
- Safer SEX
- Drug Rehabilitation
- Education about Risk Behaviors
What is your risk of becoming infected?

If you are an HIV negative female and have one unprotected vaginal sexual encounter with an HIV positive Male?
Is the risk higher/ the same/ or lower?

If you are an HIV negative male having one unprotected vaginal sexual encounter with an HIV positive female?
Is the risk higher/ the same/ or lower?

- If the sex is anal sex instead of vaginal sex?
- If the sex is oral sex instead of vaginal sex
Is the risk higher/ the same/ or lower?

- If the HIV infected person is very sick with AIDS?
- If there is a co-existent infection in one of the partners?
Is the risk higher/ the same/ or lower?

- If a condom is used?
- If a female condom is used?
- If a vaginal spermicide is used?
Is the risk higher/ the same/ or lower?

- If the partner is White? / Black? / Hispanic?
- If the partner is popular and very wealthy?
- If there are a large number of sexual encounters?
Safe Sex

- What is Safe Sex?
- What are the alternatives?
- Teaching safety to others
How do you deal with real life situations to protect yourself and protect others?
Real Life Situations

You are a 19 year old male/female college student...

The most gorgeous/handsome man/lady approaches you in a singles bar...

And says, “Let’s split this place.. Your place or mine?”
Real Life Situations

What would you really do?

What should you do?
Real Life Situations

What would you do if you find out that one of your classmates is HIV positive?
Real Life Situations

- You are a teacher...

- You learn that one of the students in your class is HIV positive..

- What should you do?
How do you handle a cut that is bleeding?
Real Life Situations

One of the Football players on your school’s team is HIV positive.

Should he be allowed to play?
Real Life Situations

Your teacher is overtly homosexual

Should he be allowed to teach in school?
Real Life Situations

- You are walking down the hall...

- Your teacher has a heart attack

- Would you perform Mouth to Mouth Resuscitation?
Real Life Situations

- Your DENTIST is HIV positive.
- Would you continue to use him?
Real Life Situations

Your INTERNIST is HIV positive..

Should he be allowed to practice?
Real Life Situations

- Your ORTHOPEDIC SURGEON is HIV positive..
- Should he be allowed to operate?
Real Life Situations

The CHEF and WAITER in your favorite restaurant are HIV positive..

Would you continue to eat there?
Real Life Situations

You are told by your physician that you need a blood transfusion..

What would you do?
You are told that over 50% of the donors at your last school blood drive were HIV positive.

What should you do?
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What resources are available to help answer your questions?
Do you have any QUESTIONS?