

TEACHERS:

- ✖ Read through the notes on each slide prior to teaching
- ✖ Alter based on your school/Principal's requirements.
- ✖ Points for open note quiz can be altered based on your specific grading
- ✖ Email Katie Dobbs if you have questions.

OBJ: SWBAT: DEFINE HIV/AIDS, IDENTIFY MODES OF TRANSMISSION AND SYMPTOMS RELATED TO HIV/AIDS

**Drill: What behaviors could increase a
person's risk of contracting STIs?
(don't list obvious behaviors)**



DEFINITIONS

HIV

- × Human Immunodeficiency Virus
- × A virus that **attacks** the **IMMUNE SYSTEM**

AIDS

- × Acquired Immune Deficiency Syndrome
- × A disease in which the immune system of the patient is **weakened**

What is the purpose of the IMMUNE SYSTEM????



Where did AIDS come from?

→ History

- May have mutated from chimpanzees
 - > Simian Immunodeficiency Virus
 - > A strain of SIV is almost identical to HIV
- May have been circulating through the Congo in the 1920's
- Became aware of HIV in the U.S. in the early 1980's.

TRANSMISSION

➡ HIV **is** transmitted through:

➡ **BLOOD**

➡ **SEMEN**

➡ **VAGINAL SECRETIONS**

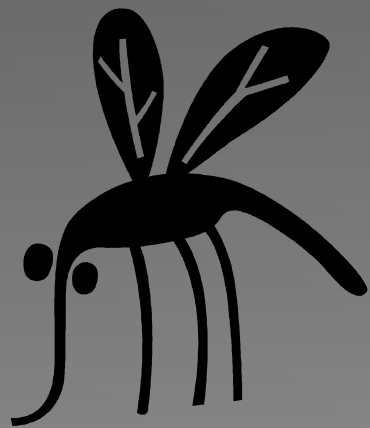
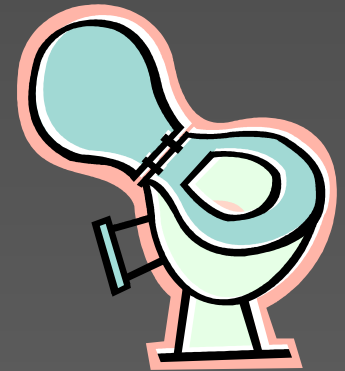
➡ **BREAST MILK**

➡ ***Direct contact*** with the *infected* fluids listed above



NOT BY....

- ✖ Sharing drinks
- ✖ Urine
- ✖ Sitting on a toilet seat
- ✖ Kissing
- ✖ MOSQUITO BITES



HIV **can not survive** in mosquitoes- therefore you can NOT get it from a mosquito bite!!!!!!

Prevention

- Abstinence!
- Condoms
 - > (Male or Female)
- PrEP



PrEP is a prevention method in which **people who do not have HIV** infection **take a pill daily to reduce their risk** of becoming infected.

What is PrEP?

What if I test positive?

Am I at risk for HIV???

How many people are living with HIV?

Where can I Get Tested?

Symptoms

- 1 in 4 do not know they are infected with the virus
- May not have symptoms
- Fever
- Swollen glands
- Mild-Extreme fatigue
- Later Stage:
 - Rapid weight loss

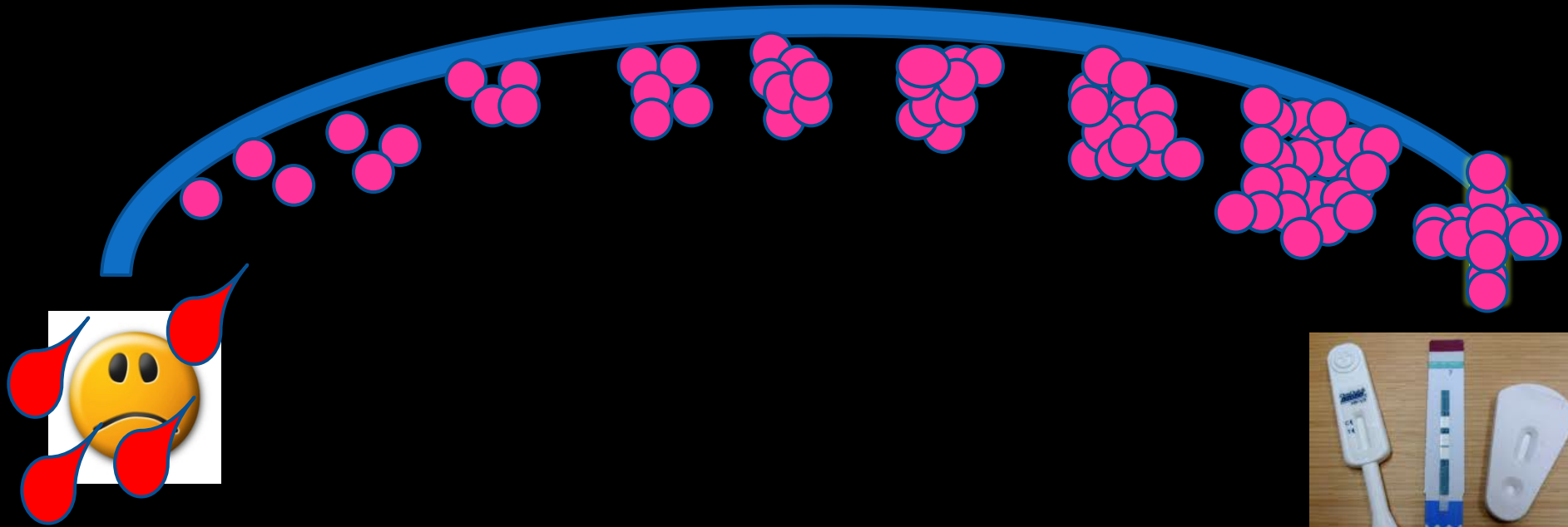
Testing for HIV

- A person could be HIV positive but *NOT test positive*. This is called the **WINDOW PERIOD!**



- It takes **time** for **antibodies** to build up in the blood- if a person tests too early it *could* give *false results*.



WINDOW PERIOD EXAMPLE



What Now?

- PEP post-exposure prophylaxis
 - Must be started within 72 hours of exposure
 - Medication is taken once or twice daily for 28 days





If a person thinks
they may have been
exposed to HIV-
What are the steps
he/she should
take?

Living with HIV

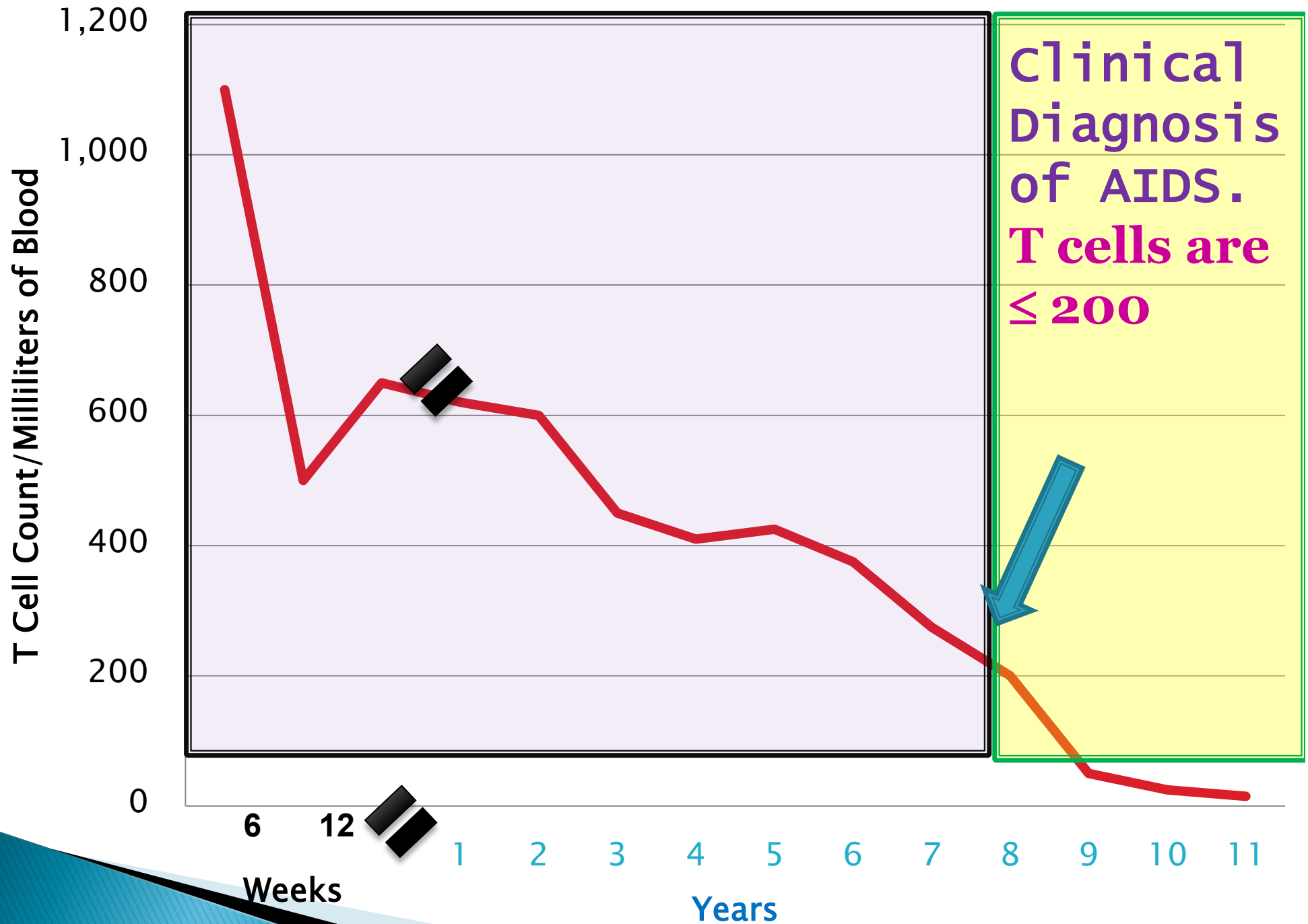
<https://www.cdc.gov/hiv/basics/livingwithhiv/index.html>

Read about it!

Then: Take notes on your paper about HIV treatments.



HIV → AIDS CD4 (T cells)





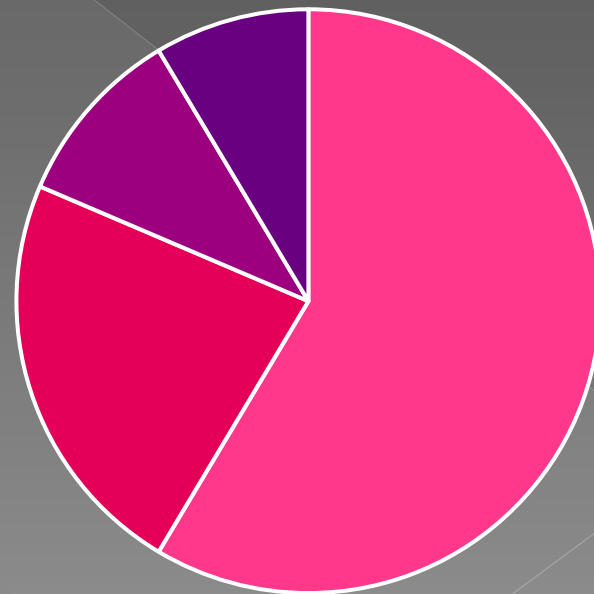
- What will these stats look like if the heroin epidemic continues?

Create a chart!

How does Harford County stack up? Research the HIV rates of 4 different counties. Create a chart representing that comparison.



HIV Rates per 10,000



■ Harford ■ Baltimore ■ Somerset ■ Frederick

Closure 6-4

1. FULLY explain the "window period"
 2. Can a treatment also be a cure? Explain
 3. How does stress affect the immune system?
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