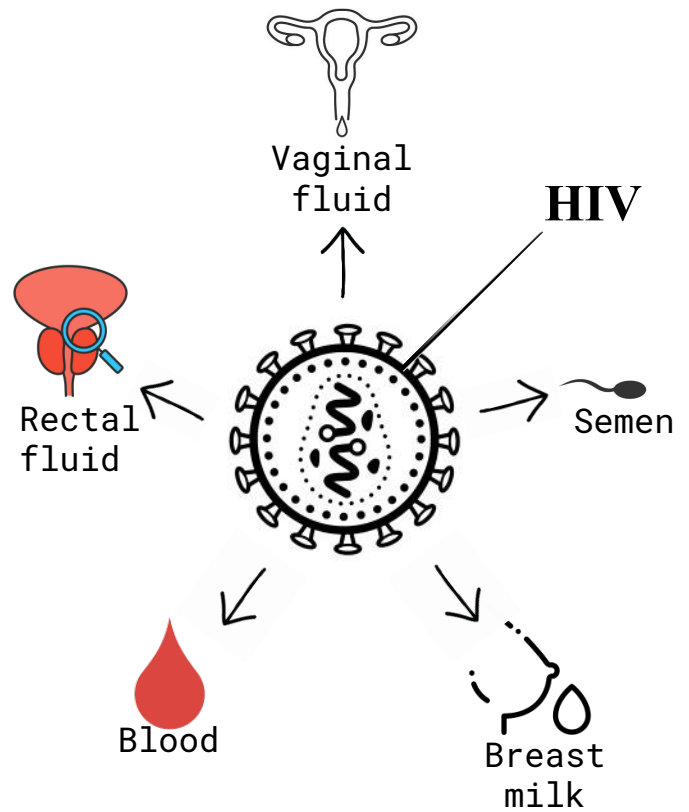


HIV infection



Agent

- Name : HIV infection
- Cause(microbe) : Human immunodeficiency virus (HIV)
- Attacks the body's immune system (specifically the CD4 cells which help the immune system fight off infections.)
- Spreads only in certain body fluids from a person who has HIV : blood, semen(cum), pre-seminal fluids, rectal fluids, vaginal fluids, and breast milk.



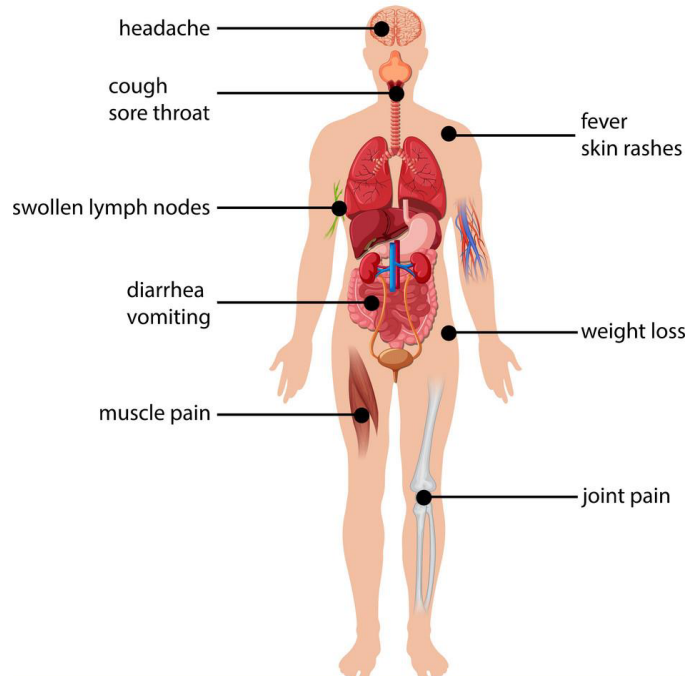
Agent - Transmission of body fluids

1. Sharing injection drug equipment, such as needles, with someone who has HIV.
2. Having vaginal or anal sex with someone who has HIV without using a condom or taking medicines to prevent or treat HIV. (Anal sex is riskier than vaginal sex)
3. From mother to child during pregnancy, birth, or breastfeeding
4. Getting stuck with an HIV-contaminated needle or other sharp object.



Host

SYMPTOMS OF ACUTE HIV INFECTION



- Host : people with HIV (originated from chimpanzee)
- Symptoms : fever, chills, rash, night sweats, muscle aches, sore throat, fatigue, swollen lymph nodes and mouth ulcers.
(Flu like symptoms)
 - Can last anywhere from a few days to several weeks.
 - Someone may not have symptoms.

Environment

: **There is no certain environment that is necessary for HIV's spread and existence.**

- **Environmental and social changes in global-scale** were detected in regions that are most affected by HIV/AIDS
- **Poverty**: one of the big reason why is HIV/AIDS so prevalent in certain regions.
 - **People cannot have HIV tests, and medical cares** due to the poverty.
 - **Hard to reach them and provide programs about changing sexual and other behaviors that cause HIV/AIDS.**

Other facts about HIV

HIV is not transmitted through food or air, for instance, coughing, or sneezing. (There has never been a case where a person was infected by sharing eating utensils or bathroom facilities or kissing)

YOUNG WOMEN AGED 10-24 ARE TWICE AS LIKELY TO CONTRACT HIV AS MALES THE SAME AGE.

There is no cure for HIV. But antiretroviral treatment can control the virus, make people with HIV can live long and healthy lives.

Treatments

Can't cure HIV,

but prevent HIV from multiplying

(making copies of itself), which
reduces the amount of HIV in the
body (called the viral load).

Antiretroviral
therapy
(ART)

#1

Involves taking a combination
of HIV medicines
(called an HIV treatment
regimen)

Help people with HIV live
longer, healthier lives.

Gives immune system a chance to recover and produce more CD4 cells.

Antiretroviral therapy (ART)

#2

Technically no cure for AIDS but ART can prevent AIDS, as it can increase a person's CD4 cells count to 200 or higher, where it is considered to no longer have AIDS.

Side effects :

nausea, vomiting, diarrhea, difficulty sleeping, dry mouth, headache and etc.

HIV typically turns into AIDS
in about 8 to 10 years.

CD4 cells are white blood cells that play a large
role in helping your body fight disease.

AIDS is diagnosed when the CD4 cell
count falls below 200 while HIV destroys
CD4 cells, or you have an AIDS-defining
complication, such as a serious infection or
cancer.

Normal adult's CD4 count is 500
to 1,500 per cubic millimeter.

Preventions

- Get tested and check your and your partner's HIV and STD status.
- Choose less risky sexual behaviors and use condom.
- Limit your number of sexual partners. The more partners you have, the more likely you will have HIV or STD.
- Don't inject drugs. But if you do, use only sterile drug injection equipment and water and never share your equipment with others.



Citation

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