**Topic : AIDS**

AIDS or acquired immune deficiency syndrome (a death warrant) is a serious disease (also called slim disease)

Caused by a retrovirus HIV (human immune deficiency virus).

AIDS was first reported by DR.Goltlieh of U.S centre for disease, control and prevention in 1981.

**Structure of HIV:**

HIV is different in structure from other retroviruses. It is around 120nm in diameter and roughly spherical.

**Transmission:**

Transmission of AIDS essentially requires the exchange of body fluids (semen, vaginal secretion, blood, milk)

Containing the virus or virus infected cells.

There are following major routes of HIV transmission.

1. Transmission of infected blood or blood products.
2. 2. Use of contaminated needles and syringes to inject drugs or vaccines.

3. Use of contaminated razors.

4. Sexual inter course with an infected without a condom

5. From infected mother to child through placenta.

6. Artificial insemination.

7. Organ transplant.

The distributions of high risk factors for AIDS transmission are as follows:

Sex between man(homosexual)—60%

Sex between man and woman-15%

Intravenous drugs abusers—15%

Transfusion of blood---6%

All others---4%

**No risk factors:**

**Touching.**

Dry kissing and embracing.

Using shaving, utensils and towels.

Using sterilized needles.  
Insect bites.

Crowed transport.

Coughing and sneezing.

Sharing swimming pools.

**Diagnosis :**

**ELISA:** the detection of antibodies in the circulation by ELISA(enzyme linked immune sorbent assay)

**Western blot technique:**

A more specific test for the HIV antibodies is employed for confirmation of ELISA positive cases.

**PCR** can be used to detect the presence of the HIV genome in the peripheral blood lymphocytes.

AIDS kits

The amplicor HIV-I monitor test (1996)

**Prevention (prophylaxis):**

\* People should be educated about AIDS. Every year, december1 is recalled as the world AIDS day.

\* Blood test must be done in blood donors, donors of semen,

Donors of organs, patient undergoing haemodialysis and pregnant women.

\* Disposable needles and syringes should be used.

\* In sexual relationship one should be monogamous.

\* Dentists should be sterilized equipments.

\*Avoid tattoos, ear and nose piercing from unqualified people.

\* Avoid use of common blades in barbers shop.

# HIV affects nearly every organ system.

#TB is unique among infections associated with HIV because it is transmible to immune competent people via the respiratory route.

# unexplained chronic diarrhea in HIV infection.

#AIDS dementia complex (ADC) is a metabolic encephalopathy induced by HIV infection.

#AIDS patients often develop opportunistic infections that

Present with non specific symptoms especially low grade fever and weight loss.

This note is very useful for NEET examination. Please send your feed back to our whatsapp number: 9707271107

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