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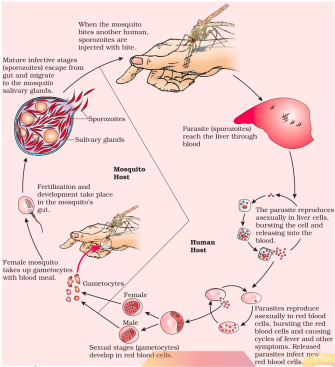
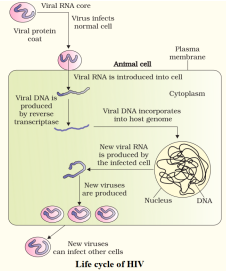
Educational Services Private Limited
NEET, JEE(Mains/Advanced)
अभ्यास ही सफलता का गुरु है।

Class : 12th Biology
Chapter- 8 : Human Health and Diseases





Life cycle of HIV

Caused by HIV

AIDS

Bone marrow, Thymus

Lymphoid organs

Primary

Secondary

Spleen, Lymph node, Tonsils

Memory based acquired immunity, which is able to distinguish foreign molecules or cells (pathogen) from self cells E.g. Rheumatoid arthritis, Multiple sclerosis

Exaggerated response of the immune system to allergens.
- Antibodies s I g E type.
- Anti-histamine, adrenaline and steroids quickly reduce the symptoms.

Drugs

- Opioids- Papavarsomniferum
- Coca alkaloid- Erythroxylum coca.
- Cannabinoids- Cannabis sativa

Wuchereria

Salmonella typhi

Streptococcus Pneumonia

State of complete physical, mental and social well-being

Plasmodium

Ascaris

Rhino virus

Entoamoeba histolytica

Filariasis

Pneumonia

Typhoid

Malaria

Ascariasis

Common Cold

Amoebiasis

Diseases

Auto Immunity

Health

Allergy

Symptoms and signs

- Drop in academic performance
- Lack of interest in personal hygiene.
- Withdrawal and isolation.
- Depression, aggressive and rebellious behavior.
- Deteriorating relationship between family and friends.
- Loss of interest in hobbies.

Human Health and Diseases

Drugs and Alcohol abuse

Causes

- Curiosity and Experimentation. - Need for adventure and excitement.
- Escape from facing problems.
- Stress from pressure to excel in academics or examination.
- Television, movies, newspapers, internet
- Unsupportive family structures and Peer pressure

Prevention control

- Avoid undue peer pressure.
- Education and counselling.
- Seeking help from parents and peers.
- Looking for danger signs.
- Seeking professional and medical help.

Cancer

Types

- Benign tumor
- Malignant
- Metastasis

Detection & Diagnosis

- Biopsy
- Radiography
- CT
- MRI

Treatment

- Radiation therapy
- Chemotherapy
- Immunotherapy

Immunity

Pathogens

Innate (Non-specific)

Acquired (Specific)

Types of barriers

- Physical
- Physiological
- Cellular
- Cytokine

Produces primary & Secondary response

B Lymphocytes

Produces Antibodies

T Lymphocytes

Help B Cells

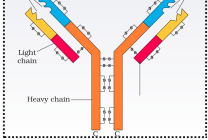
2 Types

Active Own antibiotics

- Natural: exposure to infectious agent
- Artificial: immunization

Pasive Ready made antibiotics

- Natural: maternal antibodies e.g., colostrum
- Artificial: antibodies from other sources like anti-tetanus serum



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