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Diploma in Pharmacy 1st Year
Social Pharmacy
Experiment

To study the market preparation of antiviral agents and mosquito repellent used in daily life

Aim:

To study the market preparation of antiviral agents and mosquito repellent used in daily life

Reference :

Dr. Gupta G.D , Dr. Sharma Shailesh , Dr. Sharma Anshu , " Practical Manual of Social Pharmacy " Published by Nirali Prakashan , Pg.No 57 - 60

Theory :

Antiviral

Antiviral operators are drugs endorsed by the FDA for the treatment or control of viral contaminations Accessible antiviral specialists basically target stages within the viral life cycle. The target stages within the viral life cycle are; viral connection to have cell, uncoating, amalgamation of viral mRNA, interpretation of mRNA. replication of viral RNA and DNA, development of unused viral proteins, budding, discharge of recently synthesised infection, and free infection in body liquids At slightest half of accessible antiviral specialists are for the treatment of human immunodeficiency infection (HIV) diseases. The others are utilised basically for the administration of herpes viruses, hepatitis B infection (HBV), hepatitis C infection (HCV), and respiratory viruses Antiviral specialists can be utilised for prophylaxis, concealment, pre-emptive treatment, or treatment of obvious illness Two critical variables that can constrain the utility of antiviral drugs are harmfulness and the advancement of resistance to the antiviral operator by the infection. In addition, host phenotypic behaviours toward antiviral drugs because of either genomic or epigenetic factors could limit the efficacy of an antiviral agent in an individual

Classification of Antiviral agents:

1. **Anti-Retrovirus:**
    i. **Nucleoside Reverse Transcriptase Inhibitors (NRTIs):** Ziovudine (AZT), Didanosine, Zalcitabine, Stavudine, Lamivuldine, Abacavir
    ii. **Nonnuleaside Reverse Transcriptase Inhibitors (NNRTIs):** Nevirapine, Efavirenz, Delavirdine
    iii. **Inhibitor of HIV Fusion with Host Cells:** Enfurvitide
    iv. **Integrase Inhibitor:** Ratelgravir
    v. **Chemokine Receptor Antagonist (CCR5):** Maraviroc
    vi. **Protease Inibitors :** Ritonavir, Indinavir, Nelfinavir, Saquinavir, Amprenavir, Lopinavir
2. **Anti-Herpes Virus:** Idoxurdine, Acyclovir. Valacyclovir, Famciclovir,Ganciclovir, Foscamnet. Trifluridine, Cidoclovir, Fomivirsen.
3. **Anti-Influenza Virus:**
    1) Amantadine, Rimantadine, Oseltamiv, Zanamivir
    2) Anti-hepatitis virus/ nonselective antiviral drugs
    3) **Primarily for Hepatitis B:** Lamivuldine, Adefovir diplivoxil, Tenofovir
    4) **Primarily for Hepatitis C:** Ribavirin. Intreferon a

Mosquito Repellent

A mosquito repellent may be a substance outlined to keep away mosquitoes, subsequently avoiding them from gnawing people and nourishing on human blood. Mosquito repellents are accessible as creams, moisturisers, oils, and sticks, which are connected straight forwardly on the skin. They moreover come as vaporised and pump spray items, which are utilised on the skin and to treat clothing. Mosquito repellents are distinctive from bug sprays in that the last mentioned are utilised to kill insects. Various substances have been utilised to repulse mosquitoes. These incorporate smoke, tar, mud, and oils inferred from plants, such as citronella, cedar, geranium, and peppermint.

Citronella oil, determined from the Southeast Asian grass citronella, was the primary genuinely compelling mosquito repellent. Citronella had been utilised for centuries for restorative purposes. In 1901, it was found that citronella utilised as a hairdressing scent may repulse mosquitoes. In any case,

the oil dissipates rapidly and, thus, keeps going as it were a brief time. Citronella oil is additionally utilised as the dynamic fixing in candles or coils that are burned outside to deliver smoke that repulses mosquitoes.

Names of market preparation of mosquito repellent.

1) Ben's 30 DEET Wipes.
2) Sawyer Products 20% Insect Repellent.
3) Coleman Lemon Eucalyptus Insect Repellent.
4) Avon Skin-So-Soft Bug Guard 5) Ultrathon Insect Repellent Lotion.
5) Repel Plant-Based Lemon Eucalyptus Insect Repellent Pump Spray.
6) Natrapel wipes.
7) Cutter citro guard citronella candle.
8) Murphy's lemon eucalyptus bug spray.

Result : The market preparation of antiviral agents and mosquito repellent used in daily life was studied.

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