

ANTIVIRAL DRUGS

Drugs used in the treatment of viral diseases such as HSV, H Influenza, HIV-AIDS, Hepatitis, herpes, chickenpox etc.

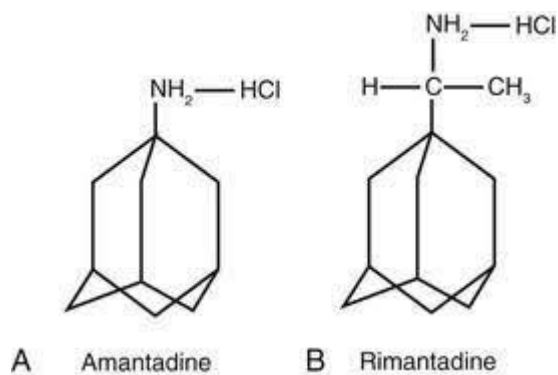
1. AMANTADINE

2. RIMANTADINE HCl

3. ACYCLOVIR

1. Amantadine HCl

(Gocovir, symmetrel)



CHEMICAL NAME: 1-Adamantanylamine

MOA: Viral replication inhibitors, preventing uncoating viral protective shell, (capsid),

Blocking protein transport across M2 channel

Dose 100mg BD

Uses: used in the treatment of H Influenza A and dyskinesia with Parkinson disease

2. Rimantadine HCl

(Flumadin)

CHEMICAL NAME: 1-(Adamantanylamine), Alpha methyl-1-amantane methylamine

MOA: Viral replication inhibitors, preventing uncoating viral protective shell, (capsid),

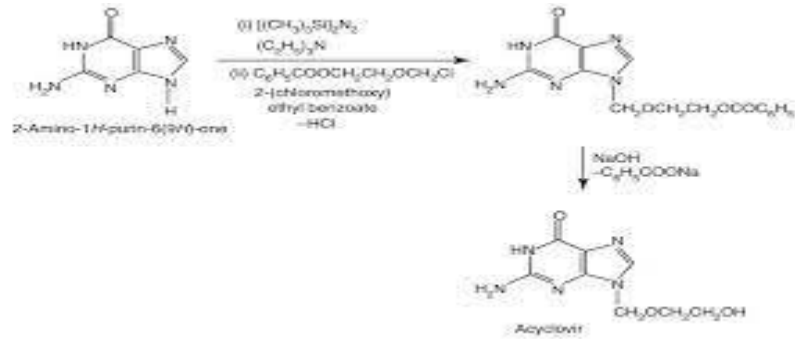
Blocking protein transport across M2 channel

Usual DOSE: 300 Mg

Uses: used in the treatment of H Influenza A and dyskinesia with Parkinson disease

3. Acyclovir (ACV, Zovirax)

Drug synthesis:



CHEMICAL NAME: 2-amino 1, 4-dihydro-9 (2-hydroxy-ethoxy) methyl 1H Purine-6-one

MOA: Nucleoside reverse transcriptase inhibitors

Oral bioavailability 15-25%

DOSE: 10mg/kg body wt.

Uses: used in the treatment of HSV 1, chickenpox