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Antiviral drugs

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Antiviral drugs

Antiviral drugs are used for treating viral infections, ranging from influenza to HIV infections.

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Classifications

- 1. Anti herpes viral drugs
- 2. Anti influenza viral agents
- 3. Anti retroviral drugs

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Anti herpes viral drugs

- Acyclovir
- Famciclovir
- Valacyclovir
- Penciclovir
- Ganciclovir
- Foscarnet
- Idoxuridine
- Trifluridine

Pharmacodynamics

•Antiviral drugs inhibit the development of pathogens instead of destroying them.

•Antiherpes viral agents inhibit the viral DNA synthesis.

Indications

- Herpes simplex Viral infection
- Herpes simplex type 1 causes the diseases in mouth, face, skin, esophagus or brain.
- Type 2 ---Genital area rectum, skin
- Herpes zoster
- CMV
- Chicken pox

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Anti influenza viral agents

- Amantadine
- Rimantadine
- Zanamivir
- Oseltamivir

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Indications

 Influenza A viral infection

Pharmacodynamics

Inhibit the replication of Influenza A virus

 Parkinsonism disease (enhance Dopamine)

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Anti retroviral drugs

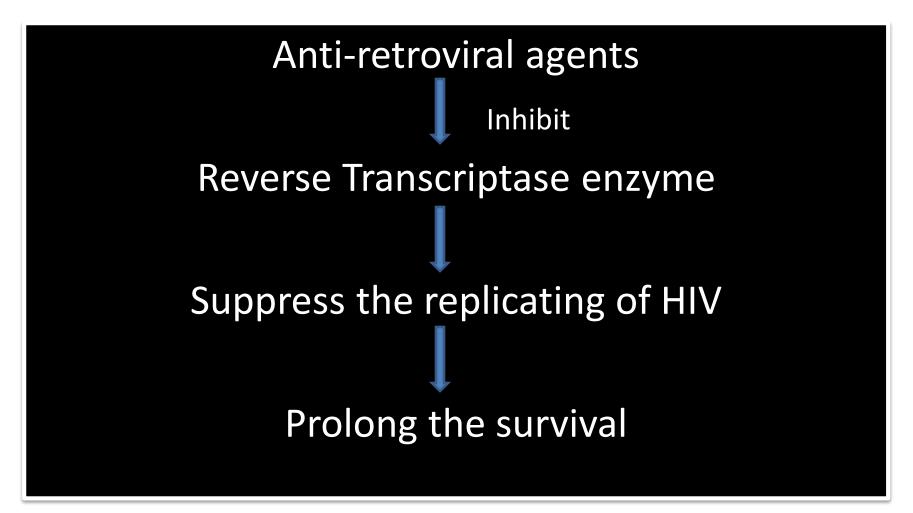
- 1. Nucleoside Reverse Transcriptase Inhibitors (NRTI)
- 2. Non Nucleoside Reverse Transcriptase Inhibitors (NNRTI)
- 3. Protease inhibitors (PI)

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Pharmacodynamics

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- Control the growth of the virus
- Improve how well your immune system works
- Slow or stop symptoms
- Prevent transmission of HIV to others

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Nucleoside Reverse transcriptase inhibitors (NRTI)

- Zidovudine
- Stavudine
- Lamivudine

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Non - Nucleoside Reverse transcriptase inhibitors (NNRTI)

- Delavirdine
- Doravirine
- Etravirine
- Efavirenz
- Nevirapine
- Rilpivirine

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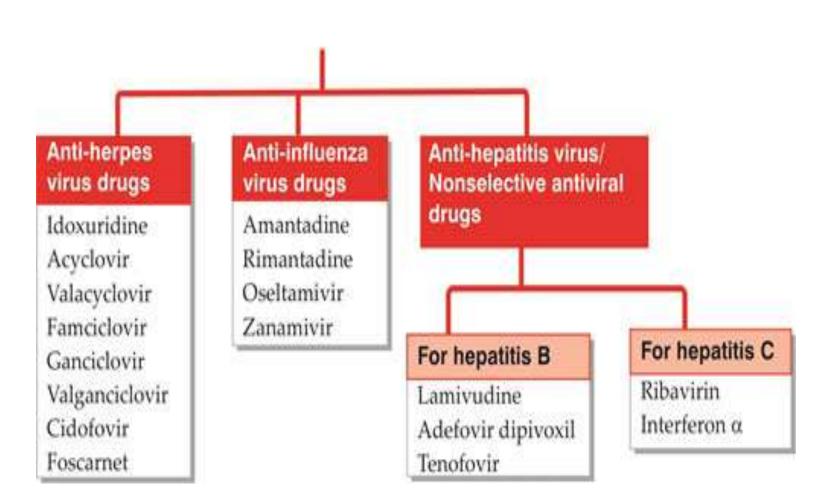
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Protease inhibitors (PI)

- Saquinavir
- Amprenavir
- Indinavir
- Nelfinavir
- Ritonavir
- Lopinavir
- Ritonavir

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References

- Schwartz A.: review and perspective on mechanism of action. *Am J Cardiol* 1989;64:3I-9I.
- Triggle DJ. mechanisms of action, vascular selectivities, and clinical relevance. *Cleve Clin J Med* 1992;59:617-627.
- Opie LH, Buhler FR, Fleckenstein A, et al. International Society and Federation of Cardiology: Working group on classification of Vasodilators for cardiovascular disease. *Am J Cardiol* 1987;60:630-632.
- Materson BJ. is it time to split the lump? *Am J Hypertens* 1995;8:325-329.