MUNI
MED

Title of the learning unit: Antivirals

Relevant terms

antivirals

- local
- systemic

antiherpetics

- DNA polymerase inhibitors
  - a**ciclovir** / vala**ciclovir**
  - gan**ciclovir** / valgan**ciclovir**

antiviral agents against influenza viruses

- uncoating inhibitors
  - amantadine
- neuraminidase inhibitors
  - zan**amivir**
  - oselt**amivir**

antiretrovirals

- reverse transcriptase inhibitors
  - nucleoside and nucleotide (NRTI)
    - zidovudine
    - emtricitabine
    - tenofovir
  - non-nucleoside (NNRTI)
    - efavirenz
- protease inhibitors
  - rito**navir**
- entry inhibitors
  - fusion inhibitors- enfuvirtide
  - CCR5 receptor antagonists (entry inhibitors)- maraviroc
- integrase inhibitors
  - ral**tegravir**
- multiple drugs – Highly Active Antiretroviral Therapy (HAART)

Respiratory infections

- RSV -palivizumab
- COVID-19 bamlanivimab
  remdesivir

viral hepatitis treatment

- HCV

    - ribavirin
- HBV – viral polymerase inhibitors
    - adefovir

antiviral biological treatment

- interferons

Learning outcomes

Student knows the basic pharmacological profile (mechanism of action, side effects, indications and contraindications) of individual classes of antiviral drugs.

Student knows major interactions of antivirals with other drugs.

Study literature

Rang & Dale's Pharmacology, 9th ed., 2020

Study materials in IS aVLFA0822c and aVLFA08222p.

Exam questions

Special pharmacology: 40. Antivirals

"Essential" drugs: acyclovir; zidovudine