

## Title of the learning unit: Antivirotics

### Impact of the learning unit:

Learning outcomes of the learning unit are to introduce the basic classes of antiviral drugs, their mechanisms of action, side effects and indications in which these drugs are used.

### Relevant terms

antivirotics

local

systemic

antiherpetics

DNA polymerase inhibitors

**aciclovir / valaciclovir**

**ganciclovir / valganciclovir**

antiviral agents against influenza viruses

uncoating inhibitors

amantadine

neuraminidase inhibitors

zanamivir

oseltamivir

antiretrovirals

reverse transcriptase inhibitors

nucleoside and nucleotide (NRTI)

zidovudine

emtricitabine

tenofovir

non-nucleoside (NNRTI)

efavirenz

protease inhibitors

ritonavir

saquinavir / sachinavir

indinavir

fusion inhibitors

enfuvirtide

CCR5 receptor antagonists (entry inhibitors)

maraviroc

integrase inhibitors

raltegravir

multiple drugs – Highly Active Antiretroviral Therapy (HAART)

RSV therapy

palivizumab

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 E - Book, Humphrey Rang 8th edition, 2016, chapter 53, pp. 642 – 652

Study materials to subjects aVLFA0822c and aVLFA0822p.

### **Exam questions**

*Special pharmacology:* 53. Antivirals

*“Essential” drugs:* 111. acyclovir; 112. zidovudine