

**Krok 2 Pharmacy**  
**Clinical Pharmacy**

**1**

6 months after treatment a patient with coronary heart disease developed tolerance to the prolonged-action nitrates. What drug with nitrate-similar effect should be recommended in this case?

- A Molsidomine**
- B Nifedipine**
- C Prazosin**
- D Verapamil**
- E Metoprolol**

**2**

Which of the following drugs is used for thrombolytic therapy in case of myocardial infarction?

- A Streptokinase**
- B Heparin**
- C Phenylinum**
- D Ticlopidine**
- E Acetylsalicylic acid**

**3**

Which preparation is the specific antidote in case of intoxication with iron preparations?

- A Deferoxamium**
- B Protamine sulfate**
- C Bemegridum**
- D Atropinum**
- E Penicillamine**

**4**

A pregnant woman fell ill with severe pneumonia. Which of these antimicrobials should be administered to this patient?

- A Cefotaxime**
- B Gentamicin sulfate**
- C Tetracycline hydrochloride**
- D Ofloxacin**
- E Biseptol**

**5**

One of the major indicator of drug elimination from the human body is:

- A Effective halfbeak**
- B Volume of distribution**
- C Bioavailability**
- D Bioequivalence**
- E Highest concentration in blood**

**6**

Mother of a 2-month-old child came to a pharmacy and asked for a febrifuge. What drug should be recommended for the child?

**A Paracetamol**

**B Nimesulide**

**C Acetylsalicylic acid**

**D Indometacinum**

**E Diclofenac sodium**

**7**

A 6-year-old child with pneumonia has been administered an antibiotic. After treatment the child lost his hearing. What group of antibiotics might have caused this complication?

**A Aminoglycosides**

**B Cephalosporins**

**C Macrolides**

**D Natural penicillins**

**E Semi-synthetic penicillins**

**8**

A 52-year-old patient had myocardial infarction and was discharged from the hospital after the stationary treatment. What daily dose of acetylsalicylic acid should be administered in order to prevent thrombosis?

**A 100 mg**

**B 500 mg**

**C 1000 mg**

**D 200 mg**

**E 50 mg**

**9**

A patient with hypertension has been administered one of antihypertensive drugs. Blood pressure dropped back to normal, but the patient has developed a persistent dry cough. Which of the following drugs has such a side effect?

**A Enalapril maleate**

**B Propranolol**

**C Clonidine**

**D Furosemide**

**E Nifedipine**

**10**

Name the reason for the reduction of anticoagulant effect of syncumar when it is applied in combination with phenobarbital:

**A Phenobarbital activates microsomal liver enzymes**

**B Phenobarbital inhibits microsomal liver enzymes**

**C Development of syncumar allergy**

**D These drugs are antagonists**

**E Mutual inactivation**

**11**

Choose an optimal antibacterial drug for the mycoplasmal pneumonia treatment:

- A Rovamycine**
- B** Gentamycinum
- C** Penicillin
- D** Ampicillin
- E** Amoksiklav

**12**

Which of the listed preparations should be used as antidote and included into the first-aid kit required at factories where acute intoxications with arsenic, mercury, chrome and bismuth compounds are possible?

- A Unithiolum**
- B** Adrenalinum
- C** Atropinum
- D** Morphinum
- E** Droperidolum

**13**

A patient has chronic pancreatitis with apparent presentations of pancreatic exocrine hypofunction. Which of the following drugs would be the most appropriate in this case?

- A Pancreatinum**
- B** Drotaverine
- C** De-Nol
- D** Omeprazole
- E** Acidin pepsinum

**14**

A patient got an injection of 0,25% novocaine solution for the purpose of anaesthetization. Suddenly the patient has presented with red spots, intense sweating, tachycardia, bronchospasm, edema of nasal mucous membrane. What is the cause of this complication?

- A Immediate allergy**
- B** Delayed allergy
- C** Local irritation
- D** Tachyphylaxis
- E** Abstinence syndrome

**15**

A 15-year-old patient has been first diagnosed with type I diabetes mellitus. Which antihyperglycemic drug should be administered in this case?

- A Insulin**
- B** Metformin
- C** Diabetone
- D** Glurenorm
- E** Glibenclamide

**16**

Which of the following non-steroid anti-inflammatory agents has the least harmful effect on the mucosa of the gastrointestinal tract?

**A Nimesulide**

**B Diclofenac**

**C Indomethacin**

**D Piroxicam**

**E Acetylsalicylic acid**

**17**

Examination of a patient who has been treated for rheumatoid arthritis for a long time revealed hyperglycemia. What drug might have caused it?

**A Dexamethasone**

**B Diclofenac sodium**

**C Ibuprofen**

**D Chloroquine**

**E Levamisole**

**18**

Which drug is used for thrombolysis in case of acute myocardial infarction?

**A Alteplase**

**B Acetylsalicylic acid**

**C Heparin**

**D Pentoxifylline**

**E Fraxiparine**

**19**

A 54-year-old patient who has been suffering from hyperacidic gastritis for several years was prescribed almagel. What pharmacotherapeutical complications on the part of digestive organs may be expected in the first place?

**A Constipation**

**B Nausea**

**C Anorexia**

**D Emesis**

**E Diarrhea**

**20**

A 26-year-old patient was diagnosed with community-acquired pneumonia provoked by mycoplasma. Choose the appropriate antimicrobial preparation for the patient treatment:

**A Rovamycine**

**B Amoxicillin**

**C Gentamycinum**

**D Benzylpenicillinum**

**E Amoksiklav**

**21**

A 60-year-old patient has essential hypertension stage II, coronary disease, bronchial asthma. After pharmacotherapy correction the patient exhibited a bronchospastic attack, intensified dyspnea. What drug provoked this complication?

- A Propranolol**
- B Nifedipine**
- C Euphyllinum**
- D Mucaltinum**
- E Salbutamol**

**22**

After an emotional stress a 60-year-old patient presented with chest pain irradiating to the left arm. Specify a drug that relieves pain in this case:

- A Nitroglycerine**
- B Nifedipine**
- C Diltiazem**
- D Propranolol**
- E Metoprolol**

**23**

A woman asked a pharmacist to dispense an antipyretic for an 8-month-old child. Which drug should be recommended?

- A Paracetamol**
- B Acetylsalicylic acid**
- C Indomethacin**
- D Diclofenac sodium**
- E Piroxicam**

**24**

A 70-year-old patient consulted a doctor about elevated arterial pressure. He has a history of benign hyperplasia of prostate. What drug should be administered in this case?

- A Doxazosin**
- B Enalapril**
- C Propranolol**
- D Diltiazem**
- E Losartan**

**25**

A woman who has been treated for infiltrative focal tuberculosis for a long time complains of acute hearing impairment. Which of the following preparations might be the cause of such side effect?

- A Streptomycin**
- B Isoniazid**
- C Ethambutol**
- D Rifampicin**
- E Ethionamidum**

**26**

Which of the listed antibacterial drugs should NOT be administered to a patient with diabetes mellitus type II being treated with glibenclamid?

**A Co-trimoxazolium**

*B* Midecamycin

*C* Gentamycinum

*D* Benzylpenicillinum

*E* Doxycycline

**27**

Which of the listed pharmacological groups of antihypertensive drugs is contra-indicated the patients with bronchial asthma?

**A Beta-adrenergic blocking agent**

*B* ACE inhibitor

*C* Calcium channel blockers

*D* Angiotensin receptors blockers

*E* Diuretics

**28**

What drug may cause constipation in a patient undergoing combined therapy for arterial hypertension?

**A Verapamil**

*B* Furosemide

*C* Trimetazidine

*D* Panangin

*E* Acetylsalicylic acid in small dosages

**29**

A patient with cholelithiasis should be administered the following drug for the dissolution of cholesterol gallstones:

**A Ursodeoxycholic acid**

*B* Gamma-aminobutyric acid

*C* Acetylsalicylic acid

*D* Citric acid

*E* Mefenamic acid

**30**

A 68-year-old female patient has been continuously taking furosemide for heart failure treatment. What drug should be used to prevent hypokalemia in patients taking furosemide?

**A Panangin**

*B* Atp-long

*C* Mildronatum

*D* Trimetazidine

*E* Sustac forte

**31**

A 52-year-old patient complains of having increased arterial pressure for a month. She has a 5-year history of bronchial asthma. What group of hypotensive drugs should NOT be recommended this patient?

- A  $\beta$ -adrenoreceptor blockers**
- B** Calcium channel blockers
- C** Tranquilizers
- D** Angiotensin receptor blockers
- E** Diuretics

**32**

An 18-year-old patient was diagnosed with disseminated pulmonary tuberculosis. What drug will provide etiotropic pharmacotherapy?

- A Isoniazid**
- B** Benzylpenicillin sodium salt
- C** Trimethoprim
- D** Lincomycin
- E** Metronidazole

**33**

A woman in the III trimester of pregnancy has an acute respiratory viral disease accompanied with body temperature rise up to 39°C. Which of the drugs should be recommended?

- A Paracetamol**
- B** Celecoxib
- C** Indomethacin
- D** Acetylsalicylic acid
- E** Diclofenac sodium

**34**

Benzathine benzylpenicillin is the drug of choice for treating the following disease:

- A Syphilis**
- B** Intestinal infection
- C** Pneumonia
- D** Angina
- E** Furunculosis

**35**

A patient consults a pharmacist about taking acetylsalicylic acid as an antiagregant. What is the daily dose that should be recommended for continuous use?

- A 0,1-0,3 g**
- B** 0,5-1,0 g
- C** 1,0-2,0 g
- D** 2,0-3,0
- E** Over 4,0 g

**36**

A patient suffering from arterial hypertension and chronic bronchitis suddenly presented with dry cough and dyspnea. Body temperature remained unchanged. It is known that the patient takes captopril. These symptoms can be explained by increased generation of:

**A Bradyquinine**

**B** Angiotensin-1

**C** Renin

**D** Aldosterone

**E** Natriuretic peptide

**37**

Which preparation from the group of laxative agents IS NOT to be administered in case of intoxication with CNS-inhibiting substances?

**A Magnesium sulfate**

**B** Sodium sulfate

**C** Vaseline oil

**D** Bisacodyl

**E** Guttalax

**38**

Treatment of poisonings with inorganic mercury compounds includes the use of the following antidote:

**A Unithiol**

**B** Naloxone

**C** Tetacium-calcium

**D** Desferal

**E** Dexamethasone

**39**

During the treatment of chronic heart failure with digoxin in a patient having bradycardia, nausea, vomiting, blurred vision. Which drug is the antidote in this case?

**A Unithiol**

**B** Tetacium calcium

**C** Dipiroximum

**D** Amyl nitrite

**E** Atropine sulphate

**40**

A 46-year-old patient suffering from chronic bronchitis came to a pharmacy. What expectorative drug may be recommended?

**A Ambroxol**

**B** Falimint

**C** Libexin

**D** Glauvent

**E** Salbutamol



**41**

A 26-year-old pregnant woman (III trimester of pregnancy) complains about body temperature rise up to 39°C. What febrifuge may be recommended in this case?

**A Paracetamol**

**B Aspirin**

**C Diclofenac**

**D Analgin**

**E Indometacin**

**42**

During the combined pharmacotherapy a patient with peptic ulcer presented with black-coloured feces. What drug might have caused such change?

**A Bismuth subcitrate**

**B Omeprazole**

**C Actovegin**

**D Metronidazole**

**E Ranitidine**

**43**

A patient who has been undergoing combined drug therapy for peptic ulcer presents with black feces. Specify a drug that might have caused such a change:

**A Bismuth subcitrate**

**B Omeprazole**

**C Actovegin**

**D Metronidazole**

**E Ranitidine**

**44**

A female patient in the first trimester of pregnancy has been diagnosed with acute pyelonephritis. What is the antibiotic drug of choice for treating this patient?

**A Amoxicillin**

**B Norfloxacin**

**C Gentamicin**

**D Chloramphenicol**

**E Amikacin**

**45**

A man with a long history of chronic hepatitis has been diagnosed with pneumonia. Which of the following antibacterial drugs can be applied in this clinical situation?

**A Amoxicillin**

**B Tetracycline**

**C Biseptol**

**D Rifampicin**

**E Vancomycin**

**46**

A 25-year-old patient has been taking antibiotics for 7 days. Antibiotic therapy has caused a complication in form of bowel dysbacteriosis. This complication should be treated with drugs of the following pharmacological group:

- A Probiotics**
- B Spasmolytics**
- C Cholagogic**
- D Antacids**
- E Adaptogens**

**47**

A 57-year-old female patient was diagnosed with rheumatoid arthritis; she has also a history of stomach ulcer. What drug from the group of nonsteroid anti-inflammatory drugs may be recommended this patient?

- A Celecoxib**
- B Diclofenac**
- C Aspirin**
- D Indometacin**
- E Mefenamic acid**

**48**

An internship doctor prescribed his patient nifuroxazid from the group of nitrofurans for the treatment of urinary tracts infection. The doctor made a mistake because:

- A It cannot be absorbed from the digestive tract**
- B It is excreted with urine in the inactive state**
- C It has nephrotoxic effect**
- D It has bacteriostatic effect**
- E It is excreted from the organism very slowly**

**49**

A patient fell ill with severe pneumonia was prescribed ceftriaxonum once a day. Prescription of ceftriaxonum once a day connected with the fact that the drug:

- A Slowly eliminated from the body**
- B Has bactericidal effect**
- C Pluripotential**
- D Accumulates in the lungs**
- E Poorly absorbed from the injection site**

**50**

A patient with moderately severe pneumonia has been administered ceftriaxone 1 time per day. The drug should be taken once a day due to the following properties:

- A Slow excretion**
- B Presence of bactericidal action**
- C Wide range of action**
- D Cumulative ability**
- E Poor absorption from the injection site**

**51**

Which of the following is the drug of choice for bronchial asthma attacks prevention?

**A Cromolyn sodium**

*B* Salbutamol

*C* Drotaverine

*D* Diphenhydramine hydrochloride

*E* Ambroxol

**52**

A patient suffering from stomach ulcer was prescribed an antiulcer drug that also reduces secretion of hydrochloric acid and inhibits *Chelicobacter pylori*. What drug is it?

**A Omeprazole**

*B* Gastrocepine

*C* Maalox

*D* Famotidine

*E* Almagel

**53**

A 24-year-old patient has been suffering from diabetes mellitus type I for 8 years. Diabetic nephropathy provoked development of symptomatic arterial hypertension. Which of the following drugs is indicated for long-term therapy?

**A Enalapril**

*B* Propranolol

*C* Clonidine

*D* Dibazol

*E* Dichlothiazide

**54**

A patient with arterial hypertension was administered a non-prescription drug for symptomatic treatment of rhinitis. What pharmaceutical form should be recommended the patient in order to reduce as much as possible the likelihood of development of undesirable systemic vasoconstriction?

**A Ointment**

*B* Gel

*C* Drops

*D* Aerosol

*E* Tablets

**55**

A 56-year-old patient suffering from essential hypertension was prescribed an inhibitor of angiotensin converting enzyme (ACE) and a potassium-sparing diuretic. Such combination is:

**A Unreasonable because it increases risk of hyperkalemia development**

*B* Reasonable because it decreases risk of hyperkalemia development

*C* Reasonable because it potentiates hypotensive effect of ACE inhibitor

*D* Unreasonable because it reduces hypotensive effect of ACE inhibitor

*E* Unreasonable because it increases risk of orthostatic collapse development

**56**

Treatment course of essential hypertension includes diuretics. Which diuretic DOES NOT NEED to be combined with potassium preparations?

- A Triamteren**
- B** Clopamide
- C** Dichlothiazide
- D** Furosemide
- E** Ethacrynic acid

**57**

A patient with hypertensive crisis received an injection of ganglionic blocker benzo hexonium. What side effect might be expected after the drug injection?

- A Orthostatic hypotension**
- B** Withdrawal (abstinence) syndrome
- C** Central nervous system depression effect
- D** Taste violation
- E** Diarrhea

**58**

A 67-year-old patient who undergoes treatment for bronchial asthma presents with limb tremor, headache, insomnia, extrasystole. What drug might have caused such symptoms?

- A Theophylline**
- B** Prednisolone
- C** Tavegyl
- D** Intal
- E** Acetylcysteine

**59**

A 25-year-old patient with frequent migraine attacks has been prescribed sumatriptan. Specify the mechanism of its action:

- A Selective agonist of 5-HT<sub>1</sub>-serotonin receptors**
- B** Selective antagonist of 5-HT<sub>1</sub>-serotonin receptors
- C** Nonselective  $\alpha$ -blocker
- D** Stimulator of  $\beta$ -adrenergic receptors
- E** Selective  $\alpha$ -blocker

**60**

A 43-year-old patient with a severe form of rheumatoid arthritis has been administered a certain drug for background therapy. Specify this drug:

- A Methotrexate**
- B** Diclofenac sodium
- C** Nimesulide
- D** Prednisolone
- E** Methylprednisolone

**61**

A 65-year-old patient complains of nausea, vomiting, lethargy, seeing yellow spots in front of his eyes. The patient daily takes 0,25 mg of digoxin, 100 mg of aspecardum, 50 mg of metoprolol. What pathological condition is this syndrome typical for?

**A Glycoside intoxication**

**B** Food poisoning

**C** Withdrawal syndrome

**D** Tachyphylaxis

**E** Hypersensitivity reaction

**62**

Bronchodilatory effect of short-acting  $\beta_2$ -adrenoceptor agonist salbutamol develops after:

**A 5-10 minutes**

**B** 20-30 minutes

**C** 45-60 minutes

**D** 2-3 hours

**E** 4-6 hours

**63**

Losartan as a part of treatment of arterial hypertension is contraindicated in case of:

**A Pregnancy**

**B** Hyperglycemia

**C** Urine acid diathesis

**D** Hyperlipidemia

**E** Hypokalemia

**64**

Which of the following antihypertensive drugs has potassium-sparing effect?

**A Triamterene**

**B** Furosemide

**C** Prazosin

**D** Metoprolol

**E** Diltiazem

**65**

In case of simultaneous use of metronidazole and oral anticoagulants derived from coumarin patients must be warned about:

**A Potentiation of anticoagulants effect and the risk of bleeding**

**B** Reduction of anticoagulants effect

**C** Potentiation of metronidazole effect

**D** Reduction of metronidazole effect

**E** Higher neurotoxicity

**66**

A 5-year-old child had accidentally drunk a bottle of eye drops. After 30 minutes the child developed shortness of breath, difficult swallowing, voice hoarseness, dilated pupils,

hyperthermia. Which of the drugs might have induced the described manifestations?

- A Atropine**
- B Adrenaline**
- C Mesatonum**
- D Pilocarpine**
- E Novocaine**

**67**

What is the mechanism of action of diclofenac sodium?

- A It blocks cyclooxygenase**
- B It activates the synthesis of phosphodiesterase**
- C It inhibits cholinesterase**
- D It activates adenylate cyclase**
- E It inhibits phosphodiesterase**

**68**

What is the drug of choice for the treatment of acute pyelonephritis in a pregnant woman in the I trimester?

- A Amoxicillin**
- B Norfloxacin**
- C Biseptolum**
- D Gentamicin**
- E Chloramphenicol**

**69**

What is the most suitable drug that can be recommended for the treatment of rhinitis accompanying an ARVI in a 7-month-old child?

- A 0,9% warm water solution of NaCl**
- B Naphthyzin**
- C Galazolin**
- D Pinosol**
- E Boromentol ointment**

**70**

What drug is indicated in case of taking an overdose of depolarizing muscle relaxants?

- A Neostigmine methylsulfate**
- B Metoprolol**
- C Naloxone**
- D Magnesium sulfate**
- E Unithiol**

**71**

A 20-year-old female patient has been administered bicillin for rheumatic fever prophylaxis. Specify the frequency of bicillin-5 administration:

- A Once every 3 weeks**
- B Once per week**
- C Once in 3 days**

*D* Once per month

*E* Once a day

**72**

A 35-year-old female customer came to a pharmacy to purchase a medicine for the prevention of influenza. Which of the following drugs can be recommended?

**A Rimantadine**

*B* Acyclovir

*C* Ribavirin

*D* Ganciclovir

*E* Lamivudine

**73**

A hypertensive patient had been administered a diuretic as a part of the combined therapy. The administered drug caused hypokalemia. Specify this drug:

**A Hydrochlorothiazide**

*B* Amiloride

*C* Spironolactone

*D* Allopurinol

*E* Triamterene

**74**

A 30-year-old male patient diagnosed with acute osteomyelitis has been administered an antibiotic that is highly effective in penetrating the bone tissue. What drug has been chosen?

**A Lincomycin**

*B* Bicillin 3

*C* Penicillin

*D* Polymyxin-M

*E* Ampicillin