

№	Krok 2023
Topic	Clinical pharmacy of diuretics
Task	A doctor has prescribed a potassium-sparing diuretic for a 35-year-old patient. Which one of the listed drugs belongs to this group?
Correct answer	Triamterene
D	Furosemide
C	Diltiazem
D	Prazosin
E	Bisoprolol
№	Krok 2023
Topic	Clinical pharmacy of insulin drugs, side effects
Task	After administration of insulin, a patient suddenly developed hunger, limb tremor, agitation and moist skin. What complication is likely developing in the patient?
Correct answer	Hypoglycemic coma
D	Collapse
C	Hyperglycemic coma
D	Pulmonary edema
E	Seizure syndrome
№	Krok 2023
Topic	Clinical pharmacy of drugs suppressing CNS activity
Task	What drug is listed as a psychotropic substance?
Correct answer	Phenazepam
D	Phencarolum (Quifenadine)
C	Paracetamol
D	Analgin (Metamizole)
E	Canephron
№	Krok 2023
Topic	Side effects of narcotics
Task	In the postoperative period, a man was receiving promedol (trimeperidine) for a long time. When this drug was discontinued, the patient developed psychic and somatic disturbances. What phenomenon is observed in this case?
Correct answer	withdrawal syndrome
D	Rebound effect

C	tachyphylaxis
D	Idiosyncrasy
E	Steal syndrome
№	Krok 2023
Topic	Clinical pharmacodynamics
Task	A man developed bladder atony in the postoperative period. What drug must be prescribed to the patient in this case?
Correct answer	Prozerin (Neostigmine)
D	Atropine
C	Magnesium sulfate
D	Dimedrol (Diphenhydramine)
E	Verapamil
№	Krok 2023
Topic	Side effects of indirect anticoagulants, antidote treatment
Task	What drug is indicated in cases of overdosing on neodicumarin or other indirect anticoagulants?
Correct answer	Vicasolum (Menadione)
D	Enoxaparin
C	Iron (II) gluconate
D	Streptokinase
E	Naloxone
№	Krok 2023
Topic	Clinical pharmacy of antibiotics, side effects
Task	Among the listed antibacterial drugs, select the group of drugs that are nephro- and ototoxic.
Correct answer	Aminoglycosides
D	Nitrofuranes
C	Fluoroquinolones
D	Amphenicols
E	Macrolides
№	Krok 2023
Topic	Clinical pharmacy of antibiotics
Task	After the removal of a maxillary cyst, the dentist prescribed the patient an oral antibiotic to prevent postoperative bacterial complications. This antibiotic penetrates well into the bone tissue. Name this drug.
Correct answer	Lincomycin

D	Clarithromycin
C	Amoxicillin
D	Nifuroxazide
E	Streptomycin sulfate
№	Krok 2023
Topic	Clinical pharmacy of antianemic drugs
Task	Examination detected atrophic gastritis and B12-deficiency anemia in a patient. What drug should be prescribed in this case?
Correct answer	Cyanocobalamin
D	Folic acid
C	Iron (II) fumarate
D	Sodium nucleinate
E	Erythropoietin
№	Krok 2023
Topic	Clinical pharmacy of antisecretional drugs
Task	A 44-year-old man was diagnosed with chronic hyperacid gastritis. What pharmacological group of drugs would be the most advisable in this case?
Correct answer	Proton pump inhibitors
D	Beta-blockers
C	Alpha-blockers
D	Glucocorticosteroids
E	Inhibitors of proteolytic enzymes
№	Krok 2023
Topic	clinical pharmacy of nitrofurans
Task	A 17-year-old boy fell ill with an acute intestinal infection. Select from the list an antibacterial drug that is not absorbed in the intestine.
Correct answer	Nifuroxaside
D	Sulfadimethoxine
C	Co-trimoxazole
D	Phthalazol (Phthalylsulfathiazole)
E	Sulfacyl sodium (Sulfacetamide)
№	Krok 2023
Topic	Clinical pharmacy of cardiac glycosides, side effects

Task	During the course of treatment for chronic heart failure, the patient developed bradycardia, nausea, and vomiting and started to see yellow-green circles. What group of drugs has caused these signs?
Correct answer	Cardiac glycosides
D	Nitrates
C	Diuretics
D	Beta-blockers
E	ACE inhibitors
№	Krok 2023
Topic	Clinical pharmacy of antacids, pharmaceutical care at heartburn
Task	A 43-year-old woman complains of heartburn after eating spicy foods. What would be the drug of choice for symptomatic treatment in this case?
Correct answer	Antacid
D	Enzymatic agents
C	Sedative
D	Analgesic
E	Antispasmodics
№	Krok 2023
Topic	Clinical pharmacy of nitrates, side effects
Task	A man has bought nitroglycerine for sublingual administration in a pharmacy. He wants to know, what side effect might develop after taking this medicine:
Correct answer	Headache
D	Urinary retention
C	Drowsiness
D	Dry cough
E	Increased blood pressure
№	Krok 2023
Topic	Clinical pharmacy of mucolytics, pharmaceutical care at cough
Task	A 46-year-old patient has chronic bronchitis. What medicine can be purchased at a pharmacy to facilitate the discharge of thick and viscous sputum?
Correct answer	Ambroxol
D	Salbutamol
C	Libexin)Prenoxdiazine)

D	Dextromethorphan
E	Butamirate
№	Krok 2023
Topic	Clinical pharmacy of nitrates, side effects
Task	A woman suddenly developed an attack of angina pectoris. To stop the attack, she took a medicine. After taking this medicine she developed an intense headache, red face, and tachycardia. What group of drugs typically has such side effects?
Correct answer	Nitrates
D	Beta-blockers
C	Alpha-adrenergic agonists
D	Calcium channel blockers
E	Diuretics
№	Krok 2023
Topic	Interaction of drugs
Task	A patient that receives indirect anticoagulant warfarin took acetylsalicylic acid to treat fever. This combination of drugs is dangerous and increases the risk of developing an adverse reaction. What side effect can develop in the patient as a result?
Correct answer	Hemorrhage
D	Cardiotoxicity
C	Neurotoxicity
D	Dysbiosis
E	Osteoporosis
№	Krok 2023
Topic	Clinical pharmacy of H1-histaminoblokera, pharmaceutical care at allergy
Task	A 32-year-old man with allergy symptoms (runny nose, sneezing, itchy skin) came to a pharmacy. He is a professional driver. What H1-histamine blocker can be recommended to this man, taking into account his profession?
Correct answer	Loratadine
D	Atropine sulfate
C	Suprastin (Chloropyramine)
D	Enterogel
E	Dimedrol (Diphenhydramine)
№	Krok 2023
Topic	Principles of treatment of stenocardia attack

Task	A woman suffers from intense retrosternal pain that radiates into her left shoulder. What drug would be optimal as a first aid in this case?
Correct answer	Nitroglycerin
D	Verapamil
C	Euphyllin (Aminophylline)
D	Digoxin
E	Amiodarone
№	Krok 2023
Topic	Pharmaceutical care at headache
Task	A 24-year-old pregnant woman complains of a headache that occurred after a stressful situation. What is the drug of choice in this case?
Correct answer	Paracetamol
D	Naproxen
C	Acetylsalicylic acid
D	Metamizole sodium
E	Indomethacin
№	Krok 2023
Topic	Clinical pharmacy of antiviral drugs
Task	What drug is used for prevention and treatment of influenza and acute respiratory viral infections?
Correct answer	Interferon
D	Amoxicillin
C	Ceftriaxone
D	Metamizole sodium
E	Acetylsalicylic acid
№	Krok 2023
Topic	Clinical pharmacy of insulin drugs, side effects

Task	After administration of insulin, a patient suddenly developed hunger, limb tremor, agitation, and moist skin. What complication is likely developing in the patient?
Correct answer	Hypoglycemic coma
D	Collapse
C	Hyperglycemic coma
D	Seizure syndrome
E	Pulmonary edema
№	krok 2017-2018
Topic	Clinical pharmacology of antihypertensive drugs
Task	A patient suffering from bronchial asthma was diagnosed with essential hypertension. What antihypertensive drug is contraindicated for this patient?
Correct answer	Propranolol
B	Captopril
C	Amlodipine
D	Hypothiazid (Hydrochlorothiazide)
E	Verapamil
№	krok 2017-2018
Topic	Clinical pharmacology of antianginal drugs
Task	A pharmacy customer complains of constricting retrosternal pain that irradiates into the left arm; he fears that he may die. The pain appeared suddenly after physical exertion. Name the first aid medicine in this case:
Correct answer	Nitroglycerine
B	Metacycline
C	Naphthyzin (Naphazoline)
D	Panangin
E	Riboxin (Inosine)
№	krok 2017-2018

Topic	Antianaemic drugs
Task	To treat iron-deficiency anemia the following drug is usually prescribed:
Correct answer	Ferroplex
B	Furagin (Furazidinum)
C	Corticosteroids
D	Heparin
E	Vicasol (Menadione)
№	krok 2017-2018
Topic	Clinical pharmacology of antianginal drugs
Task	A 45-year-old man has been taking long-acting nitrates twice a day for a year. Currently a decrease in effectiveness of the pharmacotherapy is being observed. What side-effect can be suspected in the first place?
Correct answer	Development of nitrate tolerance
B	Progressing ischemic heart disease
C	Progressing coronary atherosclerosis
D	Myocardial infarction
E	Impairment of coronary circulation
№	krok 2017-2018
Topic	Principles of treatment of colics
Task	A 43-year-old patient was delivered to an admission room with renal colic attack. What group of drugs would be the most effective during the attack?
Correct answer	Antispasmodics
B	Hepatoprotectors
C	Antacids
D	Antibiotics
E	Cholagogues
№	krok 2017-2018

Topic	Clinical pharmacology of antianginal drugs
Task	A 63-year-old man suffering from ischemic heart disease was diagnosed with angle closure glaucoma. What group of drugs is CONTRAINDICATED in this case?
Correct answer	Nitrates
B	β -adrenergic blockers
C	Calcium antagonists
D	Anticoagulants
E	Statins
№	krok 2017-2018
Topic	Clinical pharmacology of antihypertensive drugs
Task	What hypotensive drug is an agent of choice for the patients suffering from arterial hypertension with concomitant type I diabetes mellitus?
Correct answer	Lisinopril
B	Hydrochlorothiazide
C	Atenolol
D	Labetalol
E	Carvedilol
№	krok 2017-2018
Topic	Choice of drugs for the treatment renal infectious
Task	A 25-year-old man is diagnosed with acute pyelonephritis of moderate severity. What drugs should be prescribed for etiotropic therapy?
Correct answer	Antimicrobial agents
B	Glucocorticoids
C	Nonsteroidal anti-inflammatory drugs
D	Anticholinesterase drugs
E	Antiarrhythmic drugs
№	krok 2017-2018

Topic	Clinical pharmacology of antianginal drugs
Task	A 53-year-old woman suffers from ischemic heart disease and angina pectoris. What drug can be used to stop angina pectoris attacks?
Correct answer	Nitroglycerine
B	Drotaverine hydrochloride
C	Propranolol
D	Dipiridamol
E	Acetylsalicylic acid
№	krok 2017-2018
Topic	Clinical pharmacology of antiallergic drugs
Task	A patient is 20 years old. After she was stung by a bee the patient developed Quincke's disease; rash in the form of blisters and papulae appeared on her torso. First aid in this case should start with administering the following drug:
Correct answer	Prednisolone
B	Penicillin
C	Fresh frozen plasma
D	Rheopolyglukin (Dextran)
E	Haemodes
№	krok 2017-2018
Topic	Clinical pharmacology of antihypertensive drugs
Task	A patient developed dry cough while undergoing pharmacotherapy for arterial hypertension. What group of drugs can be characterized by this side effect?
Correct answer	ACE inhibitors
B	Calcium antagonists
C	Antipsychotics
D	Tranquilizers
E	Antacids

№	krok 2017-2018
Topic	Clinical pharmacology of bronchodilators
Task	During an asphyxiating attack the patient with bronchial asthma was given intravenously a drug that caused nausea, headache, excitation, and palpitations as side effects. What drug can cause such reaction?
Correct answer	Euphylline (Aminophylline)
B	Prednisolone
C	Ambroxol
D	Suprastin (Chloropyramine)
E	Papaverine hydrochloride
№	krok 2017-2018
Topic	Side effects of drugs
Task	A man with gastric ulcer is prescribed anti-Helicobacter pylori therapy. On the 3rd day the patient developed black coloring of feces. What had caused such changes?
Correct answer	Bismuth subcitrate
B	Omeprazole
C	Metronidazole
D	Tetracycline
E	Tinidazole
№	krok 2017-2018
Topic	Clinical pharmacology of mucolytics
Task	A 46-year-old pharmacy customer suffers from chronic bronchitis and needs a medicine to facilitate expectoration of thick viscous sputum. What drug is indicated in this case?
Correct answer	Ambroxol
B	Oxeladin
C	Salbutamol
D	Butamirate

E	Codeine phosphate
№	krok 2017-2018
Topic	Clinical pharmacology of drugs with metabolic activity
Task	A 52-year-old patient has been diagnosed with gouty arthritis, phase 2. What drug should be basic in treatment of this patient?
Correct answer	Allopurinol
B	Hydrochlorothiazide
C	Paracetamol
D	Furosemide
E	Penicillin
№	krok 2017-2018
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	A 3-year-old child is intolerant to paracetamol. What antipyretic drug can be taken instead?
Correct answer	Ibuprofen
B	Acetylsalicylic acid
C	Nimesulide
D	Naproxen
E	Diclofenac sodium
№	krok 2017-2018
Topic	Clinical pharmacology of antianginal drugs
Task	A patient with angina pectoris takes long-acting nitrates. Consult him what side- effect is the most common for these drugs:
Correct answer	Headache
B	Nausea
C	Vomiting
D	Diarrhea
E	Constipation

№	krok 2017-2018
Topic	clinical pharmacology of antithrombotic drugs
Task	A 60-year-old patient, who had suffered a myocardial infarction, was prescribed acetylsalicylic acid as an antiaggregant. Specify the optimal daily dosage of acetylsalicylic acid for antiaggregatory effect:
Correct answer	100 mg
B	200 mg
C	300 mg
D	400 mg
E	500 mg
№	krok 2017-2018
Topic	Clinical pharmacogenetics
Task	Genetically induced adverse reaction to a certain drug is caused by various enzyme defects. Name this reaction:
Correct answer	Idiosyncrasy
B	Withdrawal syndrome
C	Steal syndrome
D	Rebound effect
E	Dysbiosis
№	krok 2017-2018
Topic	Side effects of drugs
Task	A 25-year-old woman is in the third trimester of her pregnancy. During her regular examination, US detected a malformation in the fetus. Medical history of the patient shows that she was taking large doses of diazepam without prescription during her pregnancy. What type of side effect has occurred in this case?
Correct answer	Teratogenic
B	Embryotoxic
C	Fetotoxic

D	Carcinogenic
E	Mutagenic
№	krok 2017-2018
Topic	Principles of treatment of hypertensive crisis
Task	A 43-year-old woman has come to a pharmacy with complaints of sharp headache in the occipital area, palpitations, "visual snow" in her eyes, nausea; her BP is 180/110 mm Hg. These symptoms correspond with:
Correct answer	Hypertensive crisis
B	Migraine attack
C	Exertional angina pectoris attack
D	Cervical osteochondrosis
E	Acute conjunctivitis
№	krok 2017-2018
Topic	Side effects of antibiotics
Task	A patient, who has undergone treatment for community-acquired pneumonia, complains of hearing impairment. What antibacterial drug could result in such a side- effect?
Correct answer	Gentamicin
B	Amoxicillin/clavulanate
C	Cefazolin
D	Ciprofloxacin
E	Clarithromycin
№	krok 2017-2018
Topic	Clinical pharmacology of antiviral drugs
Task	A 36-year-old woman with herpetic rash on her lips has come to a pharmacy. Recommend her a drug for topical treatment:
Correct answer	Acyclovir
B	Fluconazole

C	Levofloxacin
D	Metronidazole
E	Amikacin
№	krok 2017-2018
Topic	Main principles of choice of antibacterial drugs
Task	A woman with open tuberculosis is undergoing in-patient treatment in the tuberculosis clinic. What drug was prescribed by her physician for etiologic treatment?
Correct answer	Isoniazid
B	Acyclovir
C	Metronidazole
D	Doxycycline hydrochloride
E	Benzympenicillin (Penicillin G)
№	krok 2017-2018
Topic	Side effects of drugs
Task	A patient has been receiving palliative treatment with morphine hydrochloride for a week. Following that the patient demands continuation of this treatment. What phenomenon has occurred in this case?
Correct answer	Dependence
B	Tolerance
C	Cumulation
D	Potentiation
E	Summation
№	krok 2017-2018
Topic	Side effects of antibiotics
Task	A 65-year-old man with community-acquired pneumonia was prescribed antibiotic agent amikacin. It should be kept in mind, that amikacin has the following side-effect:
Correct answer	Ototoxicity
B	Red coloring of urine

C	Vomiting
D	Increased blood pressure
E	Decreased blood pressure
№	krok 2017-2018
Topic	Clinical pharmacology of cholagogues and choleretics
Task	Several cholesterol gallstones are detected in the gallbladder of a woman. Choose the drug to dissolve and excrete the stones:
Correct answer	Ursodeoxycholic acid
B	Papaverine
C	Domperidone
D	Loperamide
E	Platyphyllin
№	krok 2017-2018
Topic	Side effects of drugs
Task	During anti-Helicobacter quadrotherapy patient's feces colored black. What drug could have caused this effect?
Correct answer	Bismuth subcitrate
B	Omeprazole
C	Amoxicillin
D	Clarithromycin
E	Metronidazole
№	krok 2017-2018
Topic	Side effects of anticoagulants, antidote treatment
Task	A patient receives heparin for acute myocardial infarction. On the third day the patient developed hematuria and subcutaneous hematomas. What medicine should be prescribed as an antidote in this case?
Correct answer	Protamine sulfate

B	Vicasol (Menadione)
C	Streptokinase
D	Clopidogrel
E	Acetylsalicylic acid
№	krok 2017-2018
Topic	Clinical biopharmacy
Task	A young mother has come to a pharmacy to buy an antipyretic drug for her 3-month- old infant. What dosage form would you choose for the infant?
Correct answer	Suppositories
B	Tablets
C	Capsules
D	Spray
E	Lozenges
№	krok 2017-2018
Topic	Side effects of antibiotics: prevent and treatment
Task	A 74-year-old man came to the pharmacy. He had been prescribed ampicillin for antibiotic treatment of dysenteric gastroenterocolitis. What group of drugs should be recommended for dysbiosis prevention in this case?
Correct answer	Probiotics
B	Antacids
C	Enzymatic agents
D	Sorbents
E	Immunosuppressants
№	krok 2017-2018
Topic	Clinical pharmacology of antacids
Task	A 28-year-old woman came to a pharmacy complaining of constipation that developed after antacid treatment. What drug could be the cause of this symptom?

Correct answer	Aluminium-containing drugs
B	Magnesium-containing drugs
C	Calcium carbonate
D	Simethicone
E	Ranitidine
№	krok 2017-2018
Topic	Clinical pharmacology of antacids
Task	What antacid can cause constipations, osteoporosis, and encephalopathy when taken for a long period of time?
Correct answer	Aluminium hydroxide
B	Sodium bicarbonate
C	Calcium carbonate
D	Sodium alginate
E	Magnesium oxide
№	krok 2017-2018
Topic	Clinical pharmacology of vitamins
Task	A 60-year-old man has come to a pharmacy with complaints of impaired twilight vision, dry sclera, cracked and peeling skin. The dispensing chemist suspected hypovitaminosis and recommended the customer to take the following drug after consultation with the physician:
Correct answer	Retinol acetate
B	Tocopherol acetate
C	Ergocalciferol
D	Vicasol (Menadione)
E	Ascorbic acid
№	krok 2017-2018
Topic	Clinical pharmacology of antihypertensive drugs

Task	A patient with arterial hypertension, who takes captopril, was prescribed a potassium-sparing diuretic, spironolactone. What complication can develop in the patient due to this combination of drugs?
Correct answer	Hyperkalemia
B	Hypocalcemia
C	Hyponatremia
D	Hypoglycemia
E	Hypernatremia
№	krok 2017-2018
Topic	Interaction of drugs, clinical pharmacology of antacids
Task	A patient was prescribed an oral antibiotic for treatment and an antacid to remove heartburn symptoms. If the drugs are taken simultaneously their interaction can result in the following:
Correct answer	Antibiotic malabsorption
B	Relative overdosage
C	Inhibition of hepatic microsomal enzymes
D	Mutual potentiation
E	Acceleration of metabolism and excretion
№	krok 2017-2018
Topic	Clinical pharmacology of antibiotics
Task	A 63-year-old woman suffering from diabetic nephropathy with functional disturbance of the kidneys needs etiotropic treatment for focal pneumonia. What drug is CONTRAINDICATED in this case?
Correct answer	Aminoglycosides
B	Natural penicillins
C	Synthetic penicillins
D	Macrolides
E	Combined penicillins
№	krok 2017-2018
Topic	Clinical pharmacology of hypocholesterol drugs

Task	A 68-year-old man has been prescribed a hypolipidemic agent as a part of his combination therapy for ischemic heart disease. Name this drug:
Correct answer	Atorvastatin
B	Nitroglycerine
C	Lisinopril
D	Nifedipine
E	Hydrochlorothiazide
№	krok 2017-2018
Topic	Interaction of drugs, clinical pharmacology of antacids
Task	When dispensing an antacid agent and ofloxacin in tablets, the dispensing chemist warned the customer that these drugs should be taken separately with 2-hour interval in between. Simultaneous taking of both drugs:
Correct answer	Decreases ofloxacin absorption
B	Increases ofloxacin absorption
C	Increases antacid effectiveness
D	Decreases antacid effectiveness
E	Increases risk of dysbiosis
№	krok 2017-2018
Topic	Clinical pharmacology of antihypertensive drugs
Task	A 54-year-old hypertonic patient undergoing pharmacotherapy developed bronchial spasm. His physician considers it to be a therapy-induced complication caused by the drug that belongs to the following group:
Correct answer	β -adrenergic blockers
B	Calcium antagonists
C	α -adrenergic blockers
D	Ganglionic blockers
E	Diuretics

№	krok 2017-2018
Topic	Clinical pharmacology of cardiac glycosides, side effects, antidote treatment of cardiac glycosides intoxication
Task	A patient with chronic heart failure, who has been taking cardiac glycosides, developed signs of glycoside intoxication. What antidote would be advisable in this case?
Correct answer	Unithiol (DMPS)
B	Vicasol (Menadione)
C	Protamine
D	Naloxone
E	Methionine
№	krok 2017-2018
Topic	Clinical pharmacology of nitrofurantoin derivatives
Task	For treatment of enteric infection a 36-year-old woman was prescribed a nitrofurantoin derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:
Correct answer	Nifuroxazide
B	Furacilin (Nitrofurantoin)
C	Nitroxoline
D	Furadonin (Nitrofurantoin)
E	Nalidixic acid
№	krok 2017-2018
Topic	Side effects of antibiotics: prevention and treatment
Task	Specify the drugs recommended for prevention and correction of dysbiotic problems caused by antibiotic therapy:
Correct answer	Probiotics
B	Antacids
C	Prokinetics
D	Uroseptics

E	Choleretics
№	krok 2016, 2015
Topic	Side effects of drugs
Task	A patient with chronic constipation had been prescribed bisacodyl. After 3 weeks of treatment the patient noticed a reduction of laxative effect. This is caused by the development of the following side effect:
Correct answer	Tolerance
B	Dependence
C	Sensibilization
D	Cumulation
E	Disbacteriosis
№	krok 2016
Topic	Clinical pharmacology of drugs for treatment of thyroid gland diseases
Task	A patient complains of tachycardia, insomnia, weight loss, irritability, sweating. Objectively: the patient has goiter and slight exophthalmos. What gland is affected, and what functional disorder is it?
Correct answer	Hyperthyroidism
B	Hypothyroidism
C	Hyperparathyroidism
D	Hypoparathyroidism
E	Adrenomedullary hyperfunction
№	krok 2016
Topic	Antidote treatment
Task	What are the indications for the use of naloxone?
Correct answer	Acute intoxication with narcotic analgesics
B	Heavy metals intoxication
C	Intoxication with cardiac glycosides
D	Intoxication with ergot alkaloids

E	Atropine sulfate intoxication
№	krok 2016, 2015
Topic	Antimalaria drugs
Task	What drug should be administered for individual prevention of malaria?
Correct answer	Chingamin
B	Rifampicin
C	Ampicillin
D	Gentamicin
E	Biseptol (Co-Trimoxazole)
№	krok 2016
Topic	Antianaemic drugs
Task	At the sixth month of pregnancy a woman has been diagnosed with severe iron-deficiency anemia. Appearance of the following elements in her blood became the diagnostic character:
Correct answer	Hypochromic erythrocytes
B	Macrocytes
C	Megalocytes
D	Reticulocytes
E	Erythroblasts
№	krok 2016, 2015
Topic	Clinical pharmacology of antibiotics
Task	Analysis of the cerebrospinal fluid of a child with signs of purulent lesion of brain tunics revealed gram-negative bean-shaped diplococci. What provisional diagnosis can be made based on the analysis results?
Correct answer	Meningitis
B	Gonorrhoea
C	Cholera
D	Plague

E	Anthrax
№	krok 2016
Topic	Clinical pharmacology of vitamins
Task	Diet of an individual must contain vitamins. What vitamin is usually prescribed for treatment and prevention of pellagra?
Correct answer	Vitamin <i>P P</i>
B	Vitamin <i>C</i>
C	Vitamin <i>A</i>
D	Vitamin <i>B₁</i>
E	Vitamin <i>D</i>
№	krok 2016
Topic	Types of pharmacotherapy
Task	A pharmaceutical enterprise produces a tetanus-specific preventive drug. Which drug of those listed below is it?
Correct answer	Anatoxin
B	Dead vaccine
C	Live vaccine
D	Immunoglobulin
E	Recombinant vaccine
№	krok 2016
Topic	Clinical pharmacology of vitamins
Task	An ophthalmologist has detected increased time of dark adaptation in a patient. What vitamin deficiency can result in such symptom?
Correct answer	<i>A</i>
B	<i>C</i>
C	<i>K</i>

D	B_1
E	B_6
№	krok 2016
Topic	Clinical pharmacology of hypocholesterol drugs
Task	A 70-year-old patient presents with cardiac and cerebral atherosclerosis. Examination revealed changes of blood lipid spectre. Increase of the following lipoproteins plays a significant role in atherosclerosis pathogenesis:
Correct answer	Low-density lipoproteins
B	Very low-density lipoproteins
C	Intermediate density lipoproteins
D	High-density lipoproteins
E	Chylomicrons
№	krok 2016, 2015
Topic	Clinical pharmacology of vitamins
Task	A woman noticed that a cut on her skin was still bleeding even after 4 minutes had passed. What vitamin deficiency causes such condition?
Correct answer	Vitamin <i>K</i>
B	Vitamin <i>A</i>
C	Vitamin <i>D</i>
D	Vitamin <i>E</i>
E	Vitamin B_{12}
№	krok 2016
Topic	Clinical pharmacology of enzyme and antienzyme drugs
Task	Contrykal is used to prevent pancreatic autolysis. This drug is the inhibitor of the following enzymes:
Correct answer	Proteases
B	Lipases

C	Glycosidases
D	Nucleases
E	Synthetases
№	krok 2016, 2015
Topic	Clinical pharmacology of antianaemic drugs
Task	An elderly man exhibits low levels of red blood cells and hemoglobin in blood; however, his color index is 1,3. Blood smear analysis revealed megaloblasts. What type of anemia is observed in this case?
Correct answer	<i>B</i> ₁₂ -folic acid deficiency
B	Iron-deficiency
C	Acquired hemolytic
D	Hereditary hemolytic
E	Chronic posthemorrhagic
№	krok 2016, 2015
Topic	Clinical pharmacology of antiviral drugs
Task	Pharmacy has received viricides. Choose the viricide for influenza treatment from the list given below:
Correct answer	Rimantadine
B	Metisazone
C	Levamisole
D	Azidothimidine
E	Acyclovir
№	krok 2016, 2015
Topic	Principles of treatment of acute myocardial infarction
Task	A 46-year-old patient was found to have hyperactivity of creatine kinase in the blood serum. What pathology can be suspected?
Correct answer	Myocardial infarction
B	Acute pancreatitis

C	Chronic hepatitis
D	Hemolytic anemia
E	Renal failure
№	krok 2016
Topic	Clinical pharmacology of antibiotics
Task	A pharmaceutical enterprise offers wide range of antimicrobial agents. Select the broad spectrum antimicrobial agent:
Correct answer	Tetracycline
B	Rimantadine
C	Nystatin
D	Griseofulvin
E	Phthalazolium
№	krok 2016, 2015
Topic	Clinical pharmacology of drugs for the treatment of thyroid gland diseases
Task	A patient with hyperproduction of thyroid hormones has been prescribed Merkazolilum. This drug inhibits the following enzyme participating in iodothyronine synthesis:
Correct answer	Iodide peroxidase
B	Aromatase
C	Reductase
D	Decarboxylase
E	Aminotransferase
№	krok 2016, 2015
Topic	Principles of treatment of acute myocardial infarction
Task	Neuroleptanalgesia has been applied in the case of cardiac infarction. What neuroleptic is most often applied along with fentanyl?
Correct answer	Droperidol
B	Perphenazine (Aethaperazinum)

C	Levomepromazine
D	Clozapine
E	Sulpiride
№	krok 2016
Topic	Side effects of drugs, antidote treatment
Task	A patient complaining of dry mouth, photophobia, and visual impairment has been delivered into an admission room. The skin is hyperemic and dry; pupils are dilated; tachycardia is observed. The patient was diagnosed with belladonna alkaloids intoxication. What drug would be advisable?
Correct answer	Proserin
B	Aceclidine
C	Pilocarpine
D	Armin
E	Dipiroxim
№	krok 2016
Topic	Side effects of drugs, antidote treatment
Task	A patient with signs of cardiac glycosides intoxication was prescribed Unithiol. What is the mechanism of drug action in this case?
Correct answer	Reactivation of membrane $^{+}$, Na^{+} -adenosine triphosphatase
B	Binding of ionized Ca^{2+}
C	Increased permeability of K^{+} into myocardiocytes
D	Increased Na^{+} content in myocardium
E	Induction of cardiac glycoside metabolism
№	krok 2016
Topic	Clinical pharmacology of drugs that inhibits activity of CNS
Task	A woman suffering from neurosis has disturbed sleep. What drug is optimal for insomnia treatment?
Correct answer	Nitrazepam

B	Phenobarbital
C	Aethaminalum-natrium (Pentobarbital)
D	Bromisoval
E	Valerian tincture
№	krok 2016, 2010
Topic	Clinical pharmacology of vitamins
Task	A patient consulted an ophthalmologist about deterioration of twilight vision and xerophthalmus. What drug should the doctor prescribe?
Correct answer	Retinol
B	Pyridoxine
C	Tocopherol
D	Ascorbic acid
E	Coccarboxylase
№	krok 2016, 2015
Topic	Interaction of drugs
Task	Due to prolonged taking of phenobarbital an epileptic patient has developed tolerance for this drug. What is this phenomenon based on?
Correct answer	Biotransformation acceleration
B	Absorption process weakening
C	Increase of receptor sensitivity
D	Biotransformation suppression
E	Substance accumulation in body
№	krok 2016
Topic	Interaction of drugs
Task	Decreased absorption of tetracyclines, if they are taken simultaneously with antacids, is an example of their:
Correct answer	Pharmacokinetic incompatibility

B	Pharmaceutical incompatibility
C	Pharmacodynamic incompatibility
D	Synergism
E	Functional antagonism
№	krok 2016
Topic	Clinical pharmacology of diuretics
Task	A patient with epilepsy is prescribed a diuretic. Name this drug:
Correct answer	Diacarb (Acetazolamide)
B	Verospiron
C	Furosemide
D	Hypothiazid (Hydrochlorothiazide)
E	Mannitol
№	krok 2016, 2015
Topic	Clinical pharmacology of antihypertensive drugs
Task	What side effect is characteristic of captopril?
Correct answer	Dry cough
B	Increased blood pressure
C	Hyperglycemia
D	Cardiac rate disorder
E	Hypokalemia
№	krok 2016
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	Paracetamol belongs to the following pharmacological group:
Correct answer	Nonnarcotic analgetics
B	Soporifics
C	Diuretics
D	Hypotensive drugs

E	Antianginal drugs
№	krok 2016, 2015
Topic	Pharmaceutical care in GIT symptoms
Task	An elderly patient suffers from constipation caused by large intestine hypotonia. What drug should be prescribed?
Correct answer	Bisacodyl
B	Sodium sulfate
C	Castor oil
D	Atropine sulfate
E	Procainamide
№	krok 2016
Topic	Antidote treatment
Task	A 25-year-old woman with signs of acute morphine intoxication was administered naloxone, which rapidly improved her condition. What is the mechanism of action of this drug?
Correct answer	Opioid receptor blockade
B	GABA receptor blockade
C	Serotonin receptor blockade
D	Dopamine receptor blockade
E	Benzodiazepine receptor blockade
№	krok 2016, 2011, 2009
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	A patient with rheumatoid arthritis and concomitant duodenal ulcer has to be prescribed nonsteroid anti-inflammatory drug. Which one of the drugs listed below is a drug of choice in the given case?
Correct answer	Celecoxib
B	Acetylsalicylic acid
C	Paracetamol
D	Metamizole

E	Diclofenac sodium
№	krok 2016
Topic	Clinical pharmacology of drugs at bronchial obstructive syndrome
Task	A 48-year-old patient has been intravenously administered prednisolone solution to arrest severe attack of bronchial asthma. What group of hormonal agents does prednisolone belong to?
Correct answer	Glucocorticoids
B	Gestagenic drugs
C	Estrogenic drugs
D	Mineralocorticoid
E	Anabolic steroids
№	krok 2016, 2015
Topic	Clinical pharmacology of cardiac glycosides
Task	Choose the most efficient way of convallariae glycoside administration for acute heart failure treatment:
Correct answer	Intravenous
B	Intramuscular
C	Subcutaneous
D	Internal
E	Inhalational
№	krok 2016
Topic	Clinical pharmacology of cardiac glycosides
Task	What drug should be administered in case of acute cardiac insufficiency?
Correct answer	Corglycon
B	Salbutamol
C	Pilocarpine hydrochloride
D	Naloxone
E	Heparin
№	krok 2016

Topic	Antidote treatment
Task	A patient with signs of mercury poisoning has been delivered into an admission room. What antidote should be prescribed in this case?
Correct answer	Unithiol
B	Atropine sulfate
C	Proserin
D	Naloxone
E	Calcium chloride
№	krok 2016
Topic	Clinical pharmacology of diuretics
Task	Diuretic should be prescribed to treat cerebral edema. What drug is to be administered?
Correct answer	Furosemide
B	Hydrochlorothiazide
C	Caffeine and sodium benzoate
D	Diacarb (Acetazolamide)
E	Spirolactone
№	krok 2016, 2015
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	A doctor has prescribed a non-steroidal anti-inflammatory drug to relieve inflammation and pain syndrome. Name this drug:
Correct answer	Diclofenac sodium
B	Glibenclamide
C	Loratadine
D	Prednisolone
E	Calcium chloride
№	krok 2016
Topic	Clinical pharmacology of antianginal drugs

Task	The 55-year-old patient has been diagnosed with angina pectoris. Calcium channel-blocking agent was prescribed for treatment. Name this agent:
Correct answer	Amlodipine
B	Atenolol
C	Guanethidine
D	Reserpine
E	Labetalol
№	krok 2016
Topic	Clinical pharmacology of antiviral drugs
Task	Interferons are natural antiviral and antitumor agents. What is their mechanism of action?
Correct answer	Protein synthesis depression
B	Protein synthesis increase
C	Replication activation
D	Transcription activation
E	Repair activation
№	krok 2016
Topic	Clinical pharmacology of vitamins
Task	A patient demonstrates symmetrical dermatitis on the palms. A doctor made a diagnosis of pellagra. What vitamin deficiency can result in such symptoms?
Correct answer	Nicotinic acid
B	Cobalamin
C	Ascorbic acid
D	Folic acid
E	Cholecalciferol
№	krok 2016
Topic	Clinical pharmacology of hepatoprotectors

Task	A woman complains of nausea, vomiting, skin itch. She was diagnosed with mechanical jaundice. What is the possible cause of skin itch in such a condition?
Correct answer	Bile acids accumulating in the blood
B	Increased blood content of indirect bilirubin
C	Cholesterol accumulating in the blood
D	Direct bilirubin appearing in the blood
E	Erythrocyte disintegration products accumulating in the blood
№	krok 2016, 2015
Topic	Clinical pharmacology of antihypertensive drugs
Task	During ultrasound investigation a patient has been diagnosed with bilateral stenosis of renal artery with atherosclerotic genesis. Specify the bioactive substance that due to its excessive secretion is the key component of arterial hypertension pathogenesis in the given case:
Correct answer	Renin
B	Cortisol
C	Vasopressin
D	Noradrenaline
E	Thyroxin
№	krok 2016
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	A patient with headache consulted a pharmacist. The patient was prescribed a cyclooxygenase inhibitor - an aminophenol derivative. What drug was prescribed?
Correct answer	Paracetamol
B	Acetylsalicylic acid
C	Diclofenac
D	Ketorolac
E	Ibuprofen
№	krok 2016

Topic	Clinical pharmacology of analgetics
Task	A woman is to be prescribed a narcotic analgesic for labor pain relief. What drug is indicated in this case?
Correct answer	Promedol (Trimeperidine)
B	Morphine
C	Papaveretum (Omnopon)
D	Codeine
E	Fentanyl
№	krok 2016, 2015
Topic	Side effects of drugs
Task	A woman, who during the 5th-10th weeks of her pregnancy had been taking sodium valproate for treatment of epilepsy, gave birth to a child with pathology of the vertebral column (split spine). What side effect of the drug caused such malformation?
Correct answer	Teratogenic
B	Mutagenic
C	Embryotoxic
D	Fetotoxic
E	Sensitizing
№	krok 2016
Topic	Types of pharmacotherapy
Task	A patient undergoes chemotherapy with 5-fluorouracil that is a competitive inhibitor of thymidilate synthase. What process is inhibited by this drug?
Correct answer	Thymidine monophosphate synthesis
B	Purine nucleotides disintegration
C	Adenosine triphosphate synthesis
D	Purine nucleotides salvage
E	Glucose synthesis

№	krok 2016, 2015
Topic	Side effects of drugs
Task	What group of drugs is characterized by development of drug addiction as a side effect?
Correct answer	Psychosedatives
B	Cholinergic antagonists
C	Adrenergic drugs
D	Diuretics
E	Emetics
№	krok 2015
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	A patient has been taking diclofenac sodium for a long time. A family physician withdrew this drug and prescribed celecoxib. What disease was the cause of drug substitution?
Correct answer	Peptic ulcer
B	Bronchial asthma
C	Urolithiasis
D	Arterial hypertension
E	Chronic hepatitis
№	krok 2015
Topic	Interaction of drugs
Task	Combined administration of furosemide with aminoglycoside antibiotics causes:
Correct answer	Hearing impairment
B	Increased blood pressure
C	Cramps
D	Hyperhidrosis
E	Increased intraocular pressure
№	krok 2015
Topic	Clinical pharmacology of vitamins

Task	Diet of a human must contain vitamins. What vitamin is usually prescribed for treatment and prevention of pellagra?
Correct answer	Vitamin PP
B	Vitamin C
C	Vitamin A
D	Vitamin B_1
E	Vitamin D
№	krok 2015
Topic	Drugs for the correction of dysbacteriosis
Task	A 3,5-year-old child has been diagnosed with dysbacteriosis in the form of critical reduction of gram-positive anaerobic bacteria and increased number of staphylococci and yeast fungi. What preparation should be used for the correction of dysbacteriosis?
Correct answer	Bifidumbacterin
B	Colibacterin
C	Coli-Proteus bacteriophage
D	Furazolidone
E	Lactoglobulin
№	krok 2015
Topic	Clinical pharmacology of antiallergic drugs
Task	In response to the administration of protein drugs, a patient developed an allergic reaction. The development of the allergic reaction is caused by the increased synthesis of the following compound:
Correct answer	Histamine
B	Choline
C	Adrenaline
D	Histidine
E	Serotonin

№	krok 2015
Topic	Clinical pharmacology of drugs that correct metabolic processes
Task	A patient complains of pain in the small joints. High concentration of uric acid is detected in his blood plasma. What pathology causes such changes?
Correct answer	Gout
B	Diabetes mellitus
C	Phenylketonuria
D	Lesch-Nyhan syndrome
E	Diabetes insipidus
№	krok 2015
Topic	Types of pharmacotherapy
Task	A student in severe condition was delivered into a contagious isolation ward of a hospital. He is diagnosed with toxic diphtheria of the pharynx. What drug should be administered immediately for specific treatment and prevention of complications?
Correct answer	Antidiphtheric serum
B	Diphtheria and tetanus toxoids and pertussis adsorbed vaccine
C	Diphtheria anatoxin
D	Penicillin antibiotic
E	–
№	krok 2015
Topic	Clinical pharmacology of cardiac glycosides
Task	During treatment of chronic cardiac failure with digoxin a patient developed the drug-specific signs of intoxication. A doctor prescribed Unithiol (Dimercaptopropansulfonate sodium). Explain its mechanism of action of Unithiol in case of cardiac glycoside intoxication:
Correct answer	Restoration of $K^+ - Na^+$ -adenosine triphosphatase activity
B	Binding of calcium ions

C	Increase of sodium concentration in cardiac hystiocytes
D	Increase of calciun permeability of cardiac hystiocytes
E	Binding of glycosides into complex compound
№	krok 2015
Topic	Side effects of antibiotics
Task	In the course of bronchitis pharmacotherapy a patient has developed dyspeptic disorders, photodermatitis and hepatic failure. What drug can cause such disorders?
Correct answer	Doxycycline
B	Paracetamol
C	Ascorbic acid
D	Acetylcysteine
E	Codeine phosphate
№	krok 2015
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	The patient with rheumatoid arthritis and concomitant duodenal ulcer has to be prescribed a non-steroid anti-inflammatory drug. Which one of the drugs listed below is the drug of choice in the given case?
Correct answer	Celecoxib
B	Acetylsalicylic acid
C	Paracetamol
D	Metamizole sodium
E	Diclofenac sodium
№	krok 2015
Topic	Clinical pharmacology of bronchdilators
Task	The patient with bronchial asthma had been prescribed salbutamol, which led to disappearance of bronchospasm symptoms. It happened due to stimulation of:
Correct answer	β_2 -adrenoreceptors

B	α_1 -adrenoreceptors
C	Muscarinic acetylcholine receptors
D	Acetylcholine synthesis
E	β_1 -adrenoreceptors
№	krok 2015
Topic	Clinical pharmacology of antianginal drugs
Task	A 55-year-old patient had been diagnosed with angina pectoris. Calcium channel-blocking agent was prescribed for treatment. Name this agent:
Correct answer	Amlodipine
B	Atenolol
C	Guanethidine
D	Reserpine
E	Labetalol
№	krok 2015
Topic	Clinical pharmacology of vitamins
Task	A patient suffers from mucosal dryness and mesopic vision disorder. What vitamin deficiency causes these symptoms?
Correct answer	A
B	P
C	C
D	E
E	D
№	krok 2015
Topic	Clinical pharmacology of antianginal drugs
Task	What drug group has the most pronounced vasodilatory action, and has little effect on cardiac conduction system and myocardial activity?

Correct answer	Dihydropyridine derivatives
B	Phenylalkylamine derivatives
C	Benzodiazepine derivatives
D	Sulfonylurea preparations
E	β -adrenoceptor agonist
№	krok 2015
Topic	Clinical pharmacology of mucolytics
Task	A patient with acute bronchitis was prescribed an expectorant that caused bronchial spasm after the patient had taken it. What drug of those listed below can cause such side effect?
Correct answer	Acetylcysteine
B	Salbutamol
C	Validol (Menthyl isovalerate)
D	Platyphyllin
E	Prenoxdiazine (Libexin)
№	krok 2015
Topic	Clinical pharmacology of antianginal drugs
Task	A patient was visiting a pharmacy, when he suddenly felt unwell. He developed palpitations, rapid heart rate, pain in the chest that after several minutes spread to the left scapula and left side of the head. What condition should be considered first?
Correct answer	Ischemic heart disease
B	Peptic gastric ulcer disease
C	Dysphagia
D	Pneumonia
E	Somatoform autonomic dysfunction
№	krok 2015
Topic	Side effects of antibiotics

Task	Prolonged application of broad spectrum antibacterial drugs resulted in the patient being hospitalised with diagnosis of candidiasis. What side effect of antibiotic therapy has developed in the patient?
Correct answer	Disbacteriosis
B	Endotoxic reaction
C	Toxic reaction
D	Allergic reaction
E	Formation of resistant microorganism strains
№	krok 2015
Topic	Clinical pharmacology of antisecretional drugs
Task	A 37-year-old patient with peptic gastric ulcer disease was prescribed a medicine as a part of his multimodality therapy. The medicine lowers acidity of gastric juice, inhibits H ⁺ , K ⁺ -adenosine triphosphatase, decreases the volume of gastric secretion and pepsinogen production. It is a prodrug. Name this medicine:
Correct answer	Omeprazole
B	Famotidine
C	Gastrozepin (Pirenzepine)
D	Ranitidine
E	Phosphalugel (Aluminium phosphate)
№	krok 2015
Topic	Clinical pharmacology of hepatoprotectors
Task	A doctor prescribed a herbal drug with flavonoid complex of Silybum marianum to a patient suffering from chronic hepatitis. This hepatic protector stimulates protein synthesis, normalizes phospholipid metabolism, acts as an antioxidant. Name this drug:
Correct answer	Silymarin
B	Essentiale
C	Galstena

D	Thiotriastoline
E	Ursodeoxycholic acid
№	krok 2015
Topic	Clinical pharmacology of bronchodilators
Task	Adrenomimetic agents are differentiated into selective and non-selective. What drug is an agonist of β_2 -adrenergic receptors and can be used for treatment of bronchial asthma?
Correct answer	Salbutamol
B	Metoprolol
C	Atenolol
D	Anaprilin (Propranolol)
E	Nebivolol
№	krok 2015
Topic	Clinical pharmacology of antibiotics
Task	What drug is used in treatment regimen for peptic ulcer disease to eliminate <i>Helicobacter pylori</i> ?
Correct answer	Clarithromycin
B	Tienam
C	Biseptol
D	Chloridine
E	Sulfalen
№	krok 2015
Topic	: Clinical pharmacology of antiviral drugs
Task	A local general practitioner recommends taking interferon for influenza prevention. What is the mechanism of action of this drug?
Correct answer	Blocks virus protein synthesis
B	Blocks virus stripping
C	Inhibits virion exit from cells

D	Prevents adsorption of virus in cell receptors
E	Disrupts the process of virus assembly
№	krok 2015
Topic	Clinical pharmacology o drugs that inhibit functions of CNS
Task	A doctor prescribed diazepam to a patient with anxiety disorders. What pharmacological effect is the reason for such a prescription?
Correct answer	Anxiolytic
B	Anticonvulsant
C	Anti-inflammatory
D	Antianginal
E	Hypotensive
№	krok 2014
Topic	Clinical pharmacology of antihypertensive drugs
Task	Losartan as a part of treatment of arterial hypertension is contraindicated in case of:
Correct answer	Pregnancy
B	Hyperglycemia
C	Urine acid diathesis
D	Hyperlipidemia
E	Hypokalemia
№	krok 2014, 2012
Topic	Clinical pharmacology of antithrombotic drugs
Task	Which of the following drugs is used for thrombolytic therapy in case of myocardial infarction?
Correct answer	Streptokinase
B	Heparin
C	Phenylinum
D	Ticlopidine
E	Acetylsalicylic acid

№	krok 2014
Topic	Side effects of drugs
Task	At the end of the drug action drug addicts develop severe mental, neurological and somatic disorders. This complex of symptoms is called:
Correct answer	Withdrawal syndrome
B	Tachyphylaxis
C	Sensibilization
D	Cumulation
E	Tolerance
№	krok 2014
Topic	Antidote treatment
Task	What drug is used as the specific antidote in case of intoxication with iron preparations?
Correct answer	Deferoxamine
B	Protamine sulfate
C	Bemegride
D	Atropine
E	Penicillamine
№	krok 2014, 2013
Topic	Clinical pharmacology of antihypertensive drugs
Task	Which of the following antihypertensive drugs has potassium-sparing effect?
Correct answer	Triamterene
B	Furosemide
C	Prazosin
D	Metoprolol
E	Diltiazem
№	krok 2014
Topic	Clinical pharmacology of imidazole derivatives

Task	What antiprotozoal agent can be recommended to a female patient with trichomoniasis?
Correct answer	Metronidazole
B	Primaquine
C	Chloridinum
D	Solusurminum
E	Chiniofonum
№	krok 2014
Topic	Clinical pharmacology of mucolytics
Task	A patient has a history of chronic bronchitis. Recommend him an expectorant which can be purchased at a pharmacy to facilitate the expectoration of thick and viscous mucus:
Correct answer	Ambroxol
B	Falimint
C	Glauvent
D	Libexin
E	Salbutamol
№	krok 2014
Topic	Clinical pharmacology of cardiac glycosides
Task	What drug from the group of cardiac glycosides can be used as an alternative for strophanthine if it is not available at a pharmacy?
Correct answer	Corglycon
B	Isolanidum
C	Digitoxin
D	Adonisidum
E	Celanidum
№	krok 2014
Topic	Side effects of drugs
Task	What is the most common symptom of atropine intoxication?

Correct answer	Mydriatic pupils with no light response
B	Myotic pupils with no light response
C	Hyperhidrosis
D	Bradycardia
E	Reduction of intraocular pressure
№	krok 2014
Topic	Side effects of antibiotics
Task	A 6-year-old child with pneumonia had been administered an antibiotic. After treatment the child lost the hearing. What group of antibiotics have caused this complication?
Correct answer	Aminoglycosides
B	Cephalosporins
C	Macrolides
D	Natural penicillins
E	Semi-synthetic penicillins
№	krok 2014
Topic	Clinical pharmacology of antibiotics
Task	Select the optimal antibacterial drug for the treatment of mycoplasma pneumonia:
Correct answer	Rovamycin
B	Gentamicin
C	Penicillin
D	Ampicillin
E	Amoxiclav
№	krok 2014
Topic	: Clinical pharmacology of antiallergic drugs
Task	Help a medical student to select an adrenergic drug for the treatment of anaphylactic shock:
Correct answer	Epinephrine hydrochloride
B	Clonidine

C	Galazolin
D	Fenoterolum
E	Isadrinum
№	krok 2014
Topic	Side effects of drugs
Task	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?
Correct answer	Atropine
B	Adrenaline
C	Mesatonum
D	Pilocarpine
E	Novocaine
№	krok 2014
Topic	Clinical pharmacology of antiallergic drugs
Task	A patient had been given an injection of 0,25% novocaine solution for the purpose of anaesthetization. Suddenly the patient developed red spots, intense sweating, tachycardia, bronchospasm, edema of nasal mucosa. What is the cause of this complication?
Correct answer	Immediate allergy
B	Delayed allergy
C	Local irritation
D	Tachyphylaxis
E	Withdrawal syndrome
№	krok 2014
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	What is the mechanism of action of diclofenac sodium?
Correct answer	It blocks cyclooxygenase

B	It activates the synthesis of phosphodiesterase
C	It inhibits cholinesterase
D	It activates adenylate cyclase
E	It inhibits phosphodiesterase
№	krok 2014, 2012, 2011
Topic	Clinical pharmacology of non-steroidal anti-inflammatory drugs
Task	Which of the following non-steroid anti-inflammatory agents has the least harmful effect on the mucosa of the gastrointestinal tract?
Correct answer	Nimesulide
B	Diclofenac
C	Indomethacin
D	Piroxicam
E	Acetylsalicylic acid
№	krok 2014
Topic	Clinical pharmacology of antihypertensive drugs
Task	A 60-year-old female patient has a history of essential hypertension (stage II), ischemic heart disease, bronchial asthma. After the correction of pharmacotherapy, a patient experienced an attack of bronchospasm, and an escalation of dyspnea. What drug had caused this complication?
Correct answer	Propranolol
B	Nifedipine
C	Aminophylline
D	Mucaltinum
E	Salbutamol
№	krok 2014
Topic	Clinical pharmacology of antibiotics
Task	What is the main mechanism of action that underlies the bactericidal effect of penicillin on the coccal flora?

Correct answer	Disruption of synthesis of the microbial cell wall
B	Inhibition of protein synthesis
C	Damage to the cytoplasmic membrane permeability
D	Activation of the immune system of the macroorganism
E	Fagocytic activity of leukocytes
№	krok 2014
Topic	Clinical pharmacology of antibiotics
Task	What is the drug of choice for the treatment of acute pyelonephritis in a pregnant woman in the I trimester?
Correct answer	Amoxicillin
B	Norfloxacin
C	Biseptolum
D	Gentamicin
E	Chloramphenicol
№	krok 2014
Topic	Pharmaceutical care at patients with respiratory diseases
Task	What is the most suitable drug that can be recommended for the treatment of rhinitis accompanying an ARVI in a 7-month-old child?
Correct answer	0,9% warm water solution of NaCl
B	Naphthyzin
C	Galazolin
D	Pinosol
E	Boromentol ointment
№	krok 2014
Topic	Clinical pharmacology of antihypertensive drugs
Task	What drug may cause the development of constipation in patients undergoing combined therapy for arterial hypertension?

Correct answer	Verapamil
B	Furosemide
C	Trimetazidine
D	Pananginum
E	Acetylsalicylic acid in small doses
№	krok 2014
Topic	Clinical pharmacology of antihypertensive drugs
Task	A patient with a history of essential hypertension has been administered lisinopril. What is the mechanism of action of this drug?
Correct answer	It inhibits ACE
B	It inhibits alpha-adrenergic receptors
C	It inhibits beta-adrenergic receptors
D	It stimulates beta-adrenergic receptors
E	It inhibits M-cholinergic receptors
№	krok 2014
Topic	Clinical pharmacology of antisecretional drugs
Task	A male patient has been administered an antiulcerant that blocks histamine receptors of the gastric mucosa. What drug is it?
Correct answer	Famotidine
B	Omeprazole
C	Almagelum
D	Atropine sulfate
E	Pirenzepine
№	krok 2014, 2013
Topic	Clinical pharmacology oral antidiabetic drugs
Task	Stimulation of beta-cells of the pancreas causes the hypoglycemic effect of the following drug:
Correct answer	Glibenclamide

B	Prednisolone
C	Adrenaline hydrochloride
D	Retabolilum
E	Heparin
№	krok 2014
Topic	Clinical pharmacodynamics
Task	A patient has glaucoma. Recommend him a drug of the M-cholinomimetic group:
Correct answer	Pylocarpine hydrochloride
B	Ephedrine hydrochloride
C	Sulfacyl sodium
D	Atropine sulfate
E	Laevomycesin
№	krok 2014, 2013
Topic	Interaction of drugs
Task	Advise an internship doctor on why iron preparations should not be administered together with antacids:
Correct answer	This causes malabsorption of iron
B	This causes increased binding to blood proteins
C	This prevents deposition of iron in the body
D	This increases intoxication with iron preparations
E	This accelerates elimination of iron preparations
№	krok 2014
Topic	Clinical pharmacology of antibiotics
Task	A female patient with pneumonia has been administered doxycycline hydrochloride. This drug relates to the following group of antibiotics:
Correct answer	Tetracyclines
B	Aminoglycosides
C	Macrolides

D	Cephalosporins
E	Penicillins
№	krok 2014, 2012
Topic	Clinical pharmacology of cholagogues
Task	A patient with cholelithiasis should be administered the following drug for the dissolution of cholesterol gallstones:
Correct answer	Ursodeoxycholic acid
B	Gamma-aminobutyric acid
C	Acetylsalicylic acid
D	Citric acid
E	Mefenamic acid
№	krok 2014, 2013
Topic	Clinical pharmacology of non-glycoside cardiotonics
Task	A patient with acute heart failure and cardiac glycoside intolerance was given an injection of dobutamine. What is the mechanism of its action?
Correct answer	Stimulation of β_1 -adrenoceptors
B	Stimulation of α_1 -adrenoceptors
C	Block of K^+ , Na^+ -ATPase
D	Inhibition of phosphodiesterase
E	Stimulation of M -cholinergic receptors
№	krok 2014
Topic	Antidote treatment
Task	What medication should be used as an antidote to eliminate the respiratory depression caused by an overdose of a narcotic analgesic?
Correct answer	Naloxone
B	Cordiamine

C	Aethimizolum
D	Camphor
E	Ammonia
№	krok 2014
Topic	Clinical pharmacology of hypocholesterol drugs
Task	Fenofibrate relates to the following pharmacological group:
Correct answer	Hypolipidemics
B	Fibrinolysis inhibitors
C	Hypnotics
D	Antihypertensives
E	Indirect anticoagulants
№	krok 2014
Topic	Side effects of antibiotics
Task	A 25-year-old female patient had been taking antibiotics for 7 days, the disease was complicated by the development of intestinal dysbiosis. This complication should be treated by the drugs of the following group:
Correct answer	Probiotics
B	Antispasmodics
C	Choleretics
D	Antacids
E	Adaptogens
№	krok 2014
Topic	Clinical pharmacology of antiallergic drugs
Task	Which of the following drugs should be used for prevention of bronchial asthma attacks?
Correct answer	Cromolyn sodium
B	Salbutamol
C	Drotaverine

D	Diphenhydramine hydrochloride
E	Ambroxol
№	krok 2014
Topic	Antidote treatment
Task	What drug is indicated in case of taking an overdose of depolarizing muscle relaxants?
Correct answer	Neostigmine methylsulfate
B	Metoprolol
C	Naloxone
D	Magnesium sulfate
E	Unithiol
№	krok 2014
Topic	Clinical pharmacology of antibiotics
Task	A 20-year-old female patient has been administered bicillin for rheumatic fever prophylaxis. Specify the frequency of bicillin-5 administration:
Correct answer	Once every 3 weeks
B	Once per week
C	Once in 3 days
D	Once per month
E	Once a day
№	krok 2014
Topic	Side effects of cardiac glycosides
Task	A 65-year-old male patient complains of nausea, vomiting, lethargy, seeing yellow spots in front of his eyes. The patient takes daily 0,25 mg of digoxin, 100 mg of aspecard, 50 mg of metoprolol. What pathological condition is this syndrome typical for?
Correct answer	Glycoside intoxication
B	Food poisoning
C	Withdrawal syndrome

D	Tachyphylaxis
E	Hypersensitivity reaction
№	krok 2014
Topic	Clinical pharmacology of non-glycoside cardiotonics
Task	A patient with acute heart failure has been administered an adrenomimetic agent. What drug is it?
Correct answer	Dobutamine
B	Digoxin
C	Corglycon
D	Metoprolol
E	Salbutamol
№	krok 2014
Topic	Clinical pharmacology of antiarrhythmic drugs
Task	Recommend a drug for the treatment of tachyarrhythmia episodes:
Correct answer	Propranolol
B	Adrenaline
C	Atropine
D	Caffeine sodium benzoate
E	Dobutamine
№	krok 2014
Topic	Clinical pharmacology of antiviral drugs
Task	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?
Correct answer	Rimantadine
B	Acyclovir
C	Ribavirin
D	Ganciclovir
E	Lamivudine

№	krok 2014
Topic	Clinical pharmacology of antiviral drugs
Task	A clinical pharmacist invited to a medical conference made a report on the antiviral drug acyclovir. What is its mechanism of action?
Correct answer	It inhibits the synthesis of nucleic acids
B	It blocks the synthesis of the cell wall
C	It increases the permeability of the cell membrane
D	It antagonizes with PABA
E	It inhibits the synthesis of proteins
№	krok 2014
Topic	Clinical pharmacology of drugs that stimulate functions of CNS
Task	Specify a drug having an analeptic and psychostimulant effect:
Correct answer	Caffeine sodium benzoate
B	Neostigmine methylsulfate
C	Diazepam
D	Corglycon
E	Diclofenac sodium
№	krok 2014
Topic	Clinical pharmacology of broncodilators
Task	What medicines are used to eliminate bronchospasm?
Correct answer	β -adrenergic agonists
B	β -blockers
C	α -adrenergic agonists
D	Cholinesterase inhibitors
E	M-cholinomimetics
№	krok 2014
Topic	Clinical pharmacology of diuretics

Task	A hypertensive patient had been administered a diuretic as a part of the combined therapy. The administered drug caused hypokalemia. Specify this drug:
Correct answer	Hydrochlorothiazide
B	Amiloride
C	Spironolactone
D	Allopurinol
E	Triamterene
№	krok 2014, 2013
Topic	Interaction of drugs
Task	In case of simultaneous use of metronidazole and oral anti-coagulants derived from coumarin patients must be warned about:
Correct answer	Potential of anticoagulants effect and the risk of bleeding
B	Reduction of anticoagulants effect
C	Potential of metronidazole effect
D	Reduction of metronidazole effect
E	Higher neurotoxicity
№	krok 2014
Topic	Clinical pharmacodynamics
Task	What factor underlies the mechanism of the analgesic effect of morphine hydrochloride?
Correct answer	Stimulation of opiate receptors
B	Inhibition of histamine receptors
C	Inhibition of phosphodiesterase
D	Stimulation of adenylate cyclase
E	Inhibition of cholinesterase
№	krok 2014
Topic	Clinical pharmacology of antibiotics

Task	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?
Correct answer	Lincomycin
B	Bicillin 3
C	Penicillin
D	Polymyxin-M
E	Ampicillin
№	krok 2014
Topic	Clinical pharmacology of hypocholesterol drugs
Task	During a medical briefing a pharmacy intern was asked about the mechanism of antiatherosclerotic effect of clofibrate (fenofibrate). What is the correct answer?
Correct answer	It lowers triglycerides
B	It inhibits the cholesterol absorption
C	It binds bile acids in the small intestine
D	It has an antioxidant effect
E	It inhibits the release of free fatty acids from adipose tissue
№	krok 2014
Topic	Pharmaceutical care at diseases of GIT
Task	Which of these drugs kept in the pharmacy stock relates to the group of laxatives?
Correct answer	Bisacodyl
B	Heparin
C	Vicasol
D	Atropine
E	Morphine
№	krok 2014
Topic	Clinical pharmacology of antiviral drugs
Task	A pharmacy received a batch of chemotherapeutic agents. Select an antiviral drug:

Correct answer	Acyclovir
B	Benzympenicillin sodium salt
C	Rifampicin
D	Isoniazid
E	Doxycycline
№	krok 2014, 2013
Topic	Clinical pharmacology of bronchodilators
Task	A 40-year-old patient has a history of bronchial asthma and heart rhythm disorders in form of bradyarrhythmia. Bronchospasm can be eliminated by the drugs of the following pharmacological group:
Correct answer	<i>M</i> -cholinergic antagonists
B	β -blockers
C	<i>M</i> -cholinomimetics
D	Cholinesterase inhibitors
E	Muscle relaxants
№	krok 2012
Topic	Side effects of non-steroidal drugs
Task	On the 4th day of treatment with indomethacin a 55-year-old patient developed gastric bleeding as a result of ulceration of the gastric mucosa. Ulcerogenic effect of this drug is due to a decrease in activity of the following enzyme:
Correct answer	Cyclooxygenase-1 (COX-1)
B	Cyclooxygenase-2 (COX-2)
C	Lipoxygenase (LOX)
D	Thromboxane synthetase
E	Prostacyclin synthetase
№	krok 2012, 2011
Topic	Antidote treatment

Task	A patient complaining of dry mouth, photophobia and blurred vision has been delivered to the admission ward. Objectively: the skin is hyperaemic, dry; mydriatic pupils and tachycardia are present. He has been diagnosed with belladonna alkaloids intoxication. Which of the drugs should be given as an antidote?
Correct answer	Neostigmine
B	Aceclidine
C	Pylocarpine
D	Arminum
E	Dipiroximum
№	krok 2012
Topic	Clinical pharmacology of drugs that inhibits functions of CNS
Task	To stop the delusions and hallucinations in a schizophrenic patient a doctor administered aminazine. What is the mechanism of antihypoxic action of this drug?
Correct answer	Inhibition of dopaminergic processes in the CNS
B	Stimulation of adrenergic and dopaminergic processes in the CNS
C	Stimulation of cholinergic processes in the CNS
D	Inhibition of cholinergic processes in the CNS
E	Inhibition of adrenergic processes in the CNS
№	krok 2012, 2011, 2010
Topic	Antidote treatment
Task	During a surgical operation the muscle relaxant tubocurarine chloride was used. What antagonist drug should be injected in order to allow the patient to breathe independently?
Correct answer	Neostigmine
B	Dithylinum
C	Cytitonum
D	Aethimizolum
E	Benzohexonium

№	krok 2012, 2010
Topic	Clinical pharmacology of antibiotics
Task	A pregnant woman fell ill with severe pneumonia. Which of these antimicrobials should be administered to this patient?
Correct answer	Cefotaxime
B	Gentamicin sulfate
C	Tetracycline hydrochloride
D	Ofloxacin
E	Biseptol
№	krok 2012, 2011
Topic	Clinical pharmacology of antiaggregative drugs
Task	A 52-year-old patient had myocardial infarction and was discharged from the hospital after the stationery treatment. What daily dose of acetylsalicylic acid should be administered in order to prevent thrombosis?
Correct answer	100 mg
B	500 mg
C	1000 mg
D	200 mg
E	50 mg
№	krok 2012, 2010
Topic	Clinical pharmacology of enzyme drugs
Task	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?
Correct answer	Pancreatinum
B	Drotaverine
C	De-Nol
D	Omeprazole

E	Acidin pepsinum
№	krok 2012
Topic	Clinical pharmacology of insulin drugs
Task	A 15-year-old patient has been first diagnosed with type I diabetes mellitus. Which antihyperglycemic drug should be administered in this case?
Correct answer	Insulin
B	Metformin
C	Diabetone
D	Glurenorm
E	Glibenclamide
№	krok 2012
Topic	Clinical pharmacology of antisecretional drugs
Task	A patient with gastric ulcer has been administered omeprazole. What is its mechanism of action?
Correct answer	Inhibition of H^+K^+ -ATPase
B	Blockade of histamine H_2 receptors
C	Blockade of M -cholinergic receptors
D	HCl neutralization
E	Stimulation of mucus production
№	krok 2012
Topic	Clinical pharmacology of thrombolytics
Task	Which drug is used for thrombolysis in case of acute myocardial infarction?
Correct answer	Alteplase
B	Acetylsalicylic acid
C	Heparin
D	Pentoxifylline
E	Fraxiparine

№	krok 2012
Topic	Pharmaceutical care at respiratory diseases
Task	A woman asked a pharmacist to dispense an antipyretic for an 8-month-old child. Which drug should be recommended?
Correct answer	Paracetamol
B	Acetylsalicylic acid
C	Indomethacin
D	Diclofenac sodium
E	Piroxicam
№	krok 2012, 2011, 2010
Topic	Clinical pharmacology of antihypertensive drugs
Task	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?
Correct answer	Doxazosin
B	Enalapril
C	Propranolol
D	Diltiazem
E	Losartan
№	krok 2012, 2011
Topic	Clinical pharmacology of mucolytics
Task	Recommend a patient with acute bronchitis a mucolytic drug that facilitates expectoration:
Correct answer	Acetylcysteine
B	Glaucine
C	Loratadine
D	Diclofenac sodium
E	Drotaverine hydrochloride
№	krok 2012

Topic	Clinical pharmacology of antiallergic drugs
Task	A patient with atopic dermatitis presented at the hospital. Which drug with anti-inflammatory and antiallergic effect should be administered to this patient?
Correct answer	Prednisolone
B	Aethamidum
C	Oxytocin
D	Insulin
E	Retabolil
№	krok 2012, 2011
Topic	Clinical pharmacology of hypocholesterol drugs
Task	A patient with atherosclerosis has been administered an anti-atherosclerotic agent. Specify this drug:
Correct answer	Phenofibrate
B	Ascorbic acid
C	Pyracetam
D	Dexamethasone
E	Phenylbutazone
№	krok 2012, 2010
Topic	Clinical pharmacology of antiallergic drugs
Task	A patient after bee's stings has angioedema (Quincke's edema). Which drug should be immediately inject to eliminate this condition?
Correct answer	Epinephrine hydrochloride
B	Sodium chloride
C	Platyphyllini hydrotartras
D	Atropine sulfate
E	Anaprilinum
№	krok 2012
Topic	Pharmaceutical care at diseases of GIT

Task	An elderly patient has constipation caused by hypotonia of colon. What drug should be administered to this patient?
Correct answer	Bisacodyl
B	Sodium sulfate
C	Castor oil
D	Atropine sulfate
E	Novocaine amide
№	krok 2012
Topic	Clinical pharmacodynamics
Task	From the pharmaceutical stock select an anticholinesterase drug to be administered to the patients with atony of the intestine and urinary bladder in the postoperative period:
Correct answer	Proserin
B	Phosphacolum
C	Benzohexonium
D	Atropine sulfate
E	Dithylinum
№	krok 2012, 2011, 2010
Topic	Clinical pharmacology of antianaemic drugs
Task	A patient who has been suffering from gastric diseases for a long time is found to have hyperchromic anemia. Which of the following drugs is applied for this pathology treatment?
Correct answer	Cyanocobalamine
B	Ascorbic acid
C	Unitiol
D	Ferrum Lek
E	Oxyferriscorbone
№	krok 2012
Topic	Clinical pharmacology of antibiotics

Task	Benzathine benzylpenicillin is the drug of choice for treating the following disease:
Correct answer	Syphilis
B	Intestinal infection
C	Pneumonia
D	Angina
E	Furunculosis
№	krok 2012
Topic	Clinical pharmacology of drugs that inhibits of functions of CNS
Task	A patient with schizophrenia has been administered a neuroleptic. Which of the listed drugs falls into this group?
Correct answer	Aminazine
B	Celecoxib
C	Propranolol
D	Morphine
E	Pyracetam
№	krok 2012
Topic	Interaction of drugs
Task	When a certain drug reduces the effect of another drug, such phenomenon is called:
Correct answer	Antagonism
B	Habituation
C	Sensibilization
D	Potentiation
E	Tachyphylaxis
№	krok 2012
Topic	Clinical pharmacokinetics
Task	The ability of drugs to accumulate in the patient's body is called:
Correct answer	Cumulation

B	Antagonism
C	Synergism
D	Habituation
E	Allergy
№	krok 2012
Topic	Antidote treatment
Task	Treatment of poisonings with inorganic mercury compounds includes the use of the following antidote:
Correct answer	Unithiol
B	Naloxone
C	Tetacinum-calcium
D	Desferal
E	Dexamethasone
№	krok 2012, 2011
Topic	Side effects of drugs
Task	A patient has been taking isosorbide for stenocardia prevention for quite a long time. Now he notes a significant decrease in the effect of the drug. What is this phenomenon called?
Correct answer	Tolerance
B	Cumulation
C	Physical dependence
D	Allergy
E	Potentiation
№	krok 2012
Topic	Clinical pharmacology of antocoagulants
Task	A patient with myocardial infarction has been given an intravenous injection of a direct-acting anticoagulant. Select it among the listed drugs:
Correct answer	Heparin
B	Neodicumarinum

C	Vikasolum
D	Thrombin
E	Calcium gluconate
№	krok 2012
Topic	Side effects of drugs
Task	A patient with chronic bronchitis gets glaucine hydrochloride at a pharmacy. The patient must be warned about the following typical side effect of this drug:
Correct answer	Arterial pressure drop
B	Excitation of the central nervous system
C	Irregular heartbeat
D	Increased intraocular pressure
E	Allergic skin rash
№	krok 2012
Topic	Antidote treatment
Task	Which drug with antagonistic effect can be used to stop bleeding caused by prolonged use of neodicumarinum?
Correct answer	Vikasolum
B	Aminocapronic acid
C	Etamsylate
D	Fibrinogen
E	Ascorbic acid
№	krok 2012, 2010
Topic	Clinical pharmacology of non-steroidal antiinflammatory drugs
Task	Which analgesic, anti-inflammatory, the least harmful for the stomach preparation can be recommended to a patient with exacerbation of rheumatoid arthritis?
Correct answer	Celecoxib
B	Diclofenac sodium

C	Acetylsalicylic acid
D	Ibuprofenum
E	Indometacinum
№	krok 2012
Topic	Clinical pharmacology of antibiotics
Task	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?
Correct answer	Amoxicillin
B	Norfloxacin
C	Gentamicin
D	Chloramphenicol
E	Amikacin
№	krok 2012, 2011
Topic	Clinical pharmacology of antibiotics
Task	A man with a long history of chronic hepatitis has been diagnosed with pneumonia. Which of the following anti-bacterial drugs can be applied in this clinical situation?
Correct answer	Amoxicillin
B	Tetracycline
C	Biseptol
D	Rifampicin
E	Vancomycin
№	krok 2012, 2010
Topic	Clinical pharmacology of antibiotics
Task	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:
Correct answer	Slowly eliminated from the body
B	Has bactericidal effect

C	Pluripotential
D	Accumulates in the lungs
E	Poorly absorbed from the injection site
№	krok 2012
Topic	Clinical pharmacology of antibiotics
Task	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:
Correct answer	Slow excretion
B	Presence of bactericidal action
C	Wide range of action
D	Cumulative ability
E	Poor absorption from the injection site
№	krok 2012, 2011, 2010
Topic	Clinical pharmacology of antiallergic drugs
Task	Which of the following is the drug of choice for bronchial asthma attacks prevention?
Correct answer	Cromolyn sodium
B	Salbutamol
C	Drotaverine
D	Diphenhydramine hydrochloride
E	Ambroxol
№	krok 2012, 2010
Topic	interaction of drugs
Task	Absorption of tetracycline preparations will be reduced when they are administered simultaneously with antacids. This is an example for:
Correct answer	Pharmacokinetic incompatibility
B	Pharmaceutical incompatibility
C	Pharmacodynamic incompatibility

D	Drugs synergism
E	Functional drugs antagonism
№	krok 2012, 2010
Topic	Clinical pharmacology of antihypertensive drugs
Task	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?
Correct answer	Enalapril
B	Propranolol
C	Clonidine
D	Dibazol
E	Dichlothiazide
№	krok 2012, 2009
Topic	Clinical pharmacology of diuretics
Task	Treatment course of essential hypertension includes diuretics. Which diuretic DOES NOT NEED to be combined with potassium preparations?
Correct answer	Triamteren
B	Clopamide
C	Dichlothiazide
D	Furosemide
E	Ethacrynic acid
№	krok 2012
Topic	Clinical pharmacodynamics
Task	During an operation a dentist needs to reduce salivation in a patient. The dentist has to use a drug of the following pharmacological group:
Correct answer	Muscarinic receptor blockers
B	Muscarinic cholinomimetics

C	Adrenomimetics
D	Adrenoceptor blocker
E	Muscarinic and nicotinic cholinomimetics
№	krok 2012, 2010
Topic	Principles of treatment of hypertensive crisis
Task	A patient with hypertensive crisis received an injection of ganglionic blocker benzohexonium. What side effect might be expected after the drug injection?
Correct answer	Orthostatic hypotension
B	Withdrawal (abstinence) syndrome
C	Central nervous system depression effect
D	Taste violation
E	Diarrhea
№	krok 2012, 2010
Topic	Clinical pharmacodynamics
Task	An interhospital pharmacy got an order from a surgical department for a depolarizing muscle relaxant for surgical interventions. What drug was ordered?
Correct answer	Dithylinum
B	Nicotine
C	Atropine sulfate
D	Methacin
E	Hygronium
№	krok 2012, 2011, 2009
Topic	Interaction of drugs
Task	A patient who has taken phenobarbital for a long time was prescribed diclofenac sodium. However the anti-inflammatory effect of diclofenac appeared to be less than expected due to the pharmacokinetic interaction of these drugs. Such interaction might be the result of the following processes:
Correct answer	Accelerated drug metabolism in liver

B	Decelerated drug metabolism in liver
C	Reduced protein concentration in plasma
D	Change of receptor sensibility
E	Increased drug dosage
№	krok 2011, 2009
Topic	Interaction of drugs
Task	During local anaesthetization novocaine solution is usually compounded with solution of adrenaline hydrochloride. What is the purpose of this action?
Correct answer	Vasoconstriction
B	Vasodilatation
C	Increase in smooth muscle tone
D	Decrease in smooth muscle tone
E	Anesthesia reduction
№	krok 2011, 2010
Topic	Side effects of NSAId
Task	On the 4th day of treatment with indometacin a 55-year-old patient developed gastrorrhagia as a result of gastric mucosa ulcer. Ulcerogenic effect of this drug is explained by the lowered activity of the following enzyme:
Correct answer	Cyclooxygenase-1 (COX-1)
B	Cyclooxygenase-2 (COX-2)
C	Lipoxygenase (LOG)
D	Prostacyclin synthetase
E	-
№	krok 2011
Topic	Antidote treatment

Task	A 45-year-old patient has been taking neodicumarinum for thrombophlebitis for two weeks. The regular blood test revealed a decrease in prothrombin concentration, microhematuria. Which drug should be used as neodicumarinum antagonist?
Correct answer	Vicasol
B	Protamine sulfate
C	Sodium citrate
D	Heparin
E	Aminocaproic acid
№	krok 2011, 2009
Topic	Clinical pharmacology of nitroimidazole derivatives
Task	A 52-year-old patient was diagnosed with systemic amebiasis accompanied by bowels, liver and lungs affection. What preparation should be administered?
Correct answer	Metronidazole
B	Chiniofon
C	Tetracycline
D	Chingamin
E	Phthalazol
№	krok 2011, 2010
Topic	Clinical pharmacology of antibiotics
Task	A gravida in her 20th week of gestation got ill with pneumonia. What chemotherapeutical drug may be administered with no risk for the fetus development?
Correct answer	Benzympenicillinum
B	Gentamycin
C	Sulfalenum
D	Laevomycesinum
E	Ofloxacinum
№	krok 2011

Topic	Clinical pharmacology of drugs that stimulate activity of cns
Task	A patient with depression has been administered a drug from the group of tricyclic antidepressants. Specify this drug:
Correct answer	Amitriptyline
B	Phenazepam
C	Droperidol
D	Aminalolum
E	Caffeine
№	krok 2011
Topic	Clinical pharmacology of antihypertensive drugs
Task	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?
Correct answer	Enalapril maleate
B	Propranolol
C	Clonidine
D	Furosemide
E	Nifedipine
№	krok 2011, 2009
Topic	Clinical pharmacology of antisecretory drugs
Task	A patient suffering from ulcer disease was prescribed famotidine. What is the mechanism of its action?
Correct answer	Block of H_2 -histamine receptors
B	Block of H_1 -histamine receptors
C	Block of muscarinic cholinergic receptors
D	Inhibition of adenosine triphosphatase activity
E	Block of cholinergic receptors of sympathetic ganglia

№	krok 2011
Topic	interaction of drugs
Task	Name the reason for the reduction of anticoagulant effect of syncumar when it is applied in combination with phenobarbital:
Correct answer	Phenobarbital activates microsomal liver enzymes
B	Phenobarbital inhibits microsomal liver enzymes
C	Development of syncumar allergy
D	These drugs are antagonists
E	Mutual inactivation
№	krok 2011, 2010
Topic	clinical pharmacology of antibiotics
Task	A 26-year-old patient was diagnosed with community-acquired pneumonia provoked by mycoplasma. Choose the appropriate antimicrobial preparation for the patient treatment:
Correct answer	Rovamycine
B	Amoxicillin
C	Gentamycinum
D	Benzylopenicillinum
E	Amoksiklav
№	krok 2011
Topic	treatment stenocardia attack
Task	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:
Correct answer	Nitroglycerine
B	Nifedipine
C	Diltiazem
D	Propranolol
E	Metoprolol

№	krok 2011, 2010
Topic	clinical pharmacology of sulfonamides, interaction of drugs
Task	Which of the listed antibacterial drugs should NOT be administered to a patient with diabetes mellitus type II being treated with glibenclamid?
Correct answer	Co-trimoxazolum
B	Midecamycin
C	Gentamycinum
D	Benzympenicillinum
E	Doxycycline
№	krok 2011, 2010
Topic	treatment stenocardia attack
Task	In order to arrest stenocardia attacks a patient takes nitroglycerin capsules. What is the rational way of the drug introduction?
Correct answer	Sublingual
B	Peroral
C	Rectal
D	Inhalation
E	Hypodermic
№	krok 2011, 2010
Topic	clinical pharmacology of diuretics
Task	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?
Correct answer	Panangin
B	ATP-long
C	Mildronat
D	Trimetazidine
E	Sustac forte

№	krok 2011
Topic	Clinical pharmacology of NSAID
Task	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?
Correct answer	Paracetamol
B	Celecoxib
C	Indomethacin
D	Acetylsalicylic acid
E	Diclofenac sodium
№	krok 2011
Topic	Clinical pharmacology of antiaggregative drugs
Task	A patient consults a pharmacist about taking acetylsalicylic acid as an antiaggregant. What is the daily dose that should be recommended for continuous use?
Correct answer	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
№	krok 2011
Topic	Clinical pharmacology of bronchodilators
Task	A patient with bronchial asthma has been administered a drug from the group of beta-adrenergic agonists. Specify this drug:
Correct answer	Salbutamol
B	Diazepam
C	Doxycycline hydrochloride
D	Nitroglycerine

E	Digoxin
№	krok 2011
Topic	antidote treatment
Task	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?
Correct answer	Unithiol
B	Tetacinum calcium
C	Dipiroximum
D	Amyl nitrite
E	Atropine sulfate
№	krok 2011
Topic	Clinical pharmacology of drugs that inhibits functions of cns
Task	A 30-year-old patient with a sleep disorder and psychoemotional disbalance has been administered diazepam. What is the mechanism of its psychosedative action?
Correct answer	Activation of GABAergic system
B	Inhibition of the limbic system
C	Inhibition of the reticular formation
D	Reduction of noradrenaline amount in the CNS
E	Inhibition of opioid receptors
№	krok 2011, 2010
Topic	clinical pharmacology of antibiotics
Task	Benzympenicillin sodium is not used orally, because this drug:
Correct answer	Destroys by gastric <i>HCl</i>
B	Poorly absorbed in the intestine
C	Irritates gastric mucosa
D	Reduces formation of gastric <i>HCl</i>
E	Is destroyed by penicillinase

№	krok 2011
Topic	tocostimulators - hormone
Task	A female has prolonged labour. Select a drug that stimulates labour activity due to its physiological effect from the listed below:
Correct answer	Oxytocin
B	Neostigmine
C	Pachycarpine
D	Progesterone
E	Estrone
№	krok 2011
Topic	clinical pharmacology of diuretics
Task	Select a loop diuretic of strong, emergency and short-term action from the listed below:
Correct answer	Furosemide
B	Clopamide
C	Acetazolamide
D	Spirolactone
E	Triamterene
№	krok 2011, 2009
Topic	clinical pharmacology nitrofurane derivatives
Task	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:
Correct answer	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
№	krok 2011, 2009

Topic	clinical pharmacology of nitroimidazole derivatives
Task	A consulting pharmacist informed a patient about possible side effect of metronidazole that is normally provoked by alcohol intake. What is the mechanism of this phenomenon?
Correct answer	Enzyme alcohol dehydrogenase blocking
B	Enzyme alcohol dehydrogenase activation
C	Enzyme acetylcholinesterase blocking
D	Enzyme acetylcholinesterase activation
E	Enzyme glucose 6-phosphate dehydrogenase activation
№	krok 2011
Topic	clinical pharmacology of analgesics
Task	An anaesthesiologist has to perform an operation under neuroleptanalgesia. Which of the following drug combinations should be used in this case?
Correct answer	Fentanyl with droperidol
B	Droperidol with prednisolone
C	Fentanyl with diazepam
D	Diazepam with aminazine
E	Promedol with amitriptillin
№	krok 2010, 2013
Topic	clinical pharmacology of antianginal drugs
Task	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?
Correct answer	Molsidomine
B	Nifedipine
C	Prazosin
D	Verapamil
E	Metoprolol
№	krok 2010

Topic	clinical pharmacology of antisecretional drugs
Task	A patient suffering from peptic ulcer was administered ranitidine. Gastric juice acidity has reduced considerably. What mechanism underlies the action of this drug?
Correct answer	H ₂ -histamine receptors blockade
B	H ₁ -histamine receptors blockade
C	M -cholinergic receptors blockade
D	H,K-ATPase activity inhibition
E	Autonomic ganglion H-cholinergic receptors blockade
№	krok 2010
Topic	antidote treatment
Task	A child has accidentally drunk a solution that was used by his grandmother for glaucoma treatment. The solution turned out to be pilocarpine hydrochloride. What drug can be used as an antidote?
Correct answer	Atropinum
B	Carbacholinum
C	Aceclidinum
D	Benzohexonium
E	Pentaminum
№	krok 2010
Topic	clinical pharmacokinetic
Task	One of the major indicator of drug elimination from the human body is:
Correct answer	Effective halfbeak
B	Volume of distribution
C	Bioavailability
D	Bioequivalence
E	Highest concentration in blood
№	krok 2010

Topic	clinical pharmacology of bronchodilators
Task	When fenoterol for inhalations is not available in a pharmacy, it can be substituted by the following drug from the group of selective beta-2-adrenomimetics:
Correct answer	Salbutamolum
B	Isadrinum
C	Metacinum
D	Ephedrinum
E	Euphyllinum
№	krok 2010
Topic	pharmaceutical care in respiratory diseases
Task	Mother of a 2-month-old child came to a pharmacy and asked for a febrifuge. What drug should be recommended for the child?
Correct answer	Paracetamolum
B	Nimesulide
C	Acetylsalicylic acid
D	Indometacinum
E	Diclofenac sodium
№	krok 2010
Topic	side effects of antibiotics
Task	A 6-year-old child with pneumonia was prescribed an antibiotic. After the treatment the child became deaf. Which antibiotic group might have caused this complication?
Correct answer	Aminoglycosides
B	Cephalosporins
C	Macrolides
D	Natural penicillin
E	Semisynthetic penicillin
№	krok 2010

Topic	clinical pharmacology of antihypertensive drugs
Task	A patient suffering from hypertension consulted a doctor about dry cough that was presumably provoked by antihypertensive therapy. What antihypertensive drug had she been taking?
Correct answer	Lisinopril
B	Atenolol
C	Nifedipine
D	Furosemidum
E	Hydrochlorthiazide
№	krok 2010
Topic	antidote treatment
Task	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?
Correct answer	Unithiolum
B	Adrenalinum
C	Atropinum
D	Morphinum
E	Droperidolum
№	krok 2010, 2009
Topic	side effects of antiinflammatory drugs
Task	Examination of a patient who has been treated for rheumatoid arthritis for a long time revealed hyperglycemia. What drug might have caused it?
Correct answer	Dexamethasone
B	Diclofenac sodium
C	Ibuprofen
D	Chloroquine
E	Levamisole

№	krok 2010
Topic	clinical pharmacology of antacids
Task	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?
Correct answer	Constipation
B	Nausea
C	Anorexia
D	Emesis
E	Diarrhea
№	krok 2010
Topic	clinical pharmacology of antihypertensive drugs
Task	Which of the listed pharmacoligical groups of antihypertensive drugs is contraindicated the patients with bronchial asthma?
Correct answer	Beta-adrenergic blocking agent
B	ACE inhibitor
C	Calcium channel blockers
D	Angiotensin receptors blockers
E	Diuretics
№	krok 2010
Topic	clinical pharmacology of drugs that stimulate activity cns
Task	After a craniocerebral trauma a patient was administered pyracetam. This drug relates to the following pharmacological group:
Correct answer	Nootropic agent
B	Nonnarcotic (nonopioid) analgetic
C	Tranquilizers
D	Anesthetic agent

E	Neuroleptic
№	krok 2010
Topic	clinical pharmacology of antihypertensive drugs
Task	A patient with hypertension was administered metoprolol for the arterial pressure reduction. What is its mechanism of action?
Correct answer	Beta adrenoreceptor blockade
B	Alpha adrenoceptor blockade
C	Indirect adrenomimetic action
D	Antispasmodic
E	Angiotensin receptors blockade
№	krok 2010
Topic	clinical pharmacology of anticoagulants
Task	For thrombosis treatment a patient was prescribed a drug from the group of direct anticoagulants. What drug is it?
Correct answer	Heparin
B	Fenilin (phenylinum)
C	Syncumar
D	Neodicumarin
E	Vikasol
№	krok 2010
Topic	Clinical pharmacology of sulfonamides
Task	A patient being treated in the infectious disease ward for dysentery is administered ftalazol. What is the reason for ftalazol being used only for treatment of enteric infections?
Correct answer	The drug is not absorbed from the gastrointestinal tract
B	The high degree of reabsorption in the kidneys
C	Slowly eliminated from the body
D	Rapidly absorbed in the gastrointestinal tract

E	Rapidly excreted in unchanged form
№	krok 2013
Topic	clinical pharmacology of antihypertensive drugs
Task	A patient with hypertensive crisis has been given an intravenous injection of clonidine. What mechanism underlies the antihypertensive effect of clonidine?
Correct answer	Stimulation of the central presynaptic α_2 -adrenergic receptors
B	Blockade of peripheral α_1 -adrenergic receptors
C	Blockade of β -adrenergic receptors
D	Blockade of <i>N</i> -cholinergic receptors
E	Direct myotropic effect on blood vessels
№	krok 2013
Topic	Antidote treatment
Task	A patient with the symptoms of cardiac glycoside intoxication has been administered unithiol. What is the mechanism of therapeutic action of this drug?
Correct answer	Reactivation of the membrane K^+, Na^+ -ATPase
B	Binding of the ionized Ca^{2+}
C	Increased penetration of K^+ into the cardiac myocytes
D	Increase in Na^+ level in the myocardium
E	Induction of cardiac glycosides metabolism
№	krok 2013
Topic	antidote treatment
Task	A 38-year-old male patient with mercuric chloride intoxication has been delivered to the admission ward in grave condition. What antidote must be immediately administered the patient?
Correct answer	Unithiol
B	Dipyroxime
C	Atropine

D	Nalorphine
E	Izonitrozinum
№	krok 2013
Topic	types of pharmacotherapy, drugs in thyroid gland diseases
Task	Help the doctor to select a drug for the replacement therapy after the thyroid gland removal:
Correct answer	L-thyroxine
B	Insulin
C	Prednisolone
D	Parathyroidin
E	Mercazolilum
№	krok 2013, 2010
Topic	clinical pharmacology of cardiac glycosides
Task	A 67-year-old patient with chronic heart failure takes digoxin. In order to reduce its side effects the patient's doctor recommended to combine it with the followig drug:
Correct answer	Panangin
B	Calcium gluconate
C	Euphyllinum
D	Hydrochlorthiazide
E	Calcium chloride
№	krok 2013, 2010, 2009
Topic	side effects of antibiotics
Task	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 this side effect?
Correct answer	Streptomycin
B	Isoniazid
C	Ethambutol
D	Rifampicin

E	Ethionamidum
№	krok 2013
Topic	pharmaceutical care at pain
Task	What drug can be recommended for symptomatic treatment of muscle pain in a 5-year-old child?
Correct answer	Paracetamol
B	Acetylsalicylic acid
C	Diclofenac sodium
D	Indomethacin
E	Celecoxib
№	krok 2013
Topic	clinical pharmacology of drugs that stimulate activity of cns
Task	A patient with Parkinson's disease has been prescribed a drug with a predominant effect on the dopaminergic system. What drug is it?
Correct answer	Levodopa
B	Zopiclone
C	Droperidol
D	Aminazine
E	Lorazepam
№	krok 2013
Topic	principles of treatment of renal colic
Task	Exacerbation of urolithiasis has caused a renal colic in the patient. What drug must be administered to arrest the colic?
Correct answer	Drotaverine hydrochloride
B	Siliborum
C	Almagel
D	Aethimizolum
E	Neostigmine methylsulfate

№	krok 2013
Topic	clinical pharmacology of antiallergic drugs
Task	A patient with atopic dermatitis presented to the hospital. Which drug with anti-inflammatory and antiallergic effect should be administered to this patient?
Correct answer	Prednisolone
B	Aethamidum
C	Oxytocin
D	Insulin
E	Retabolilum
№	krok 2013
Topic	clinical pharmacology of NSAID
Task	Help the doctor to select a drug from the group of non-steroidal antiinflammatory drugs, which is an inhibitor of COX-2 and does not damage the stomach:
Correct answer	Celecoxib
B	Acetylsalicylic acid
C	Indomethacin
D	Paracetamol
E	Diclofenac sodium
№	krok 2013
Topic	clinical pharmacology of diuretics
Task	A patient with acute intoxication has been administered a loop diuretic in order to cause the forced diuresis. What drug is it?
Correct answer	Furosemide
B	Mannitol
C	Hydrochlorothiazide
D	Triamterene
E	Spironolactone

№	krok 2013
Topic	Clinical pharmacology of antihypertensive drugs
Task	A hypertensive patient has been administered lisinopril. What side effect is typical for this drug?
Correct answer	Dry cough
B	Constipation
C	Increased appetite
D	Insomnia
E	Vomiting
№	krok 2013
Topic	Clinical pharmacology of bronchodilators
Task	Treatment of a patient who has developed an attack of bronchial asthma for the first time should be started with:
Correct answer	Inhalation of β_2 -agonists
B	Inhalation of glucocorticosteroid
C	Agonists parenterally
D	<i>M</i> -anticholinergic drugs
E	<i>H</i> ₂ -histamine blockers
№	krok 2013
Topic	Clinical pharmacology of drugs that inhibits functions of cns
Task	A female patient has a sleep disorder after stress. Which of the following hypnotic drugs should be preferred for the treatment of insomnia?
Correct answer	Nitrozepam
B	Phenobarbital
C	Chloral hydrate
D	Aminazine
E	Barbital

№	krok 2013
Topic	Clinical pharmacology of analgesics
Task	A 65-year-old female patient with a fracture of mandible has been prescribed a drug from the group of narcotic analgesics. Specify this drug:
Correct answer	Promedol
B	Piracetam
C	Heparin
D	Cinnarizine
E	Furosemide
№	krok 2013
Topic	Clinical pharmacology of antihypertensive drugs
Task	A hypertensive patient has been prescribed a drug from the group of non-selective beta-blockers. Specify this drug:
Correct answer	Anapriline
B	Prazosin
C	Neostigmine methylsulfate
D	Adrenaline hydrochloride
E	Labetalol
№	krok 2013
Topic	Principles of treatment colics
Task	A patient has a history of cholelithiasis. What drug should be administered to prevent biliary colic?
Correct answer	Magnesium sulfate
B	Almagel
C	Contrycal
D	Bisacodyl
E	Pancreatin
№	krok 2013

Topic	clinical pharmacodynamics
Task	From the pharmaceutical stock select a reversible anticholinesterase drug to be administered to the patients with atony of the intestine and urinary bladder in the postoperative period:
Correct answer	Proserin
B	Phosphacolum
C	Benzohexonium
D	Atropine sulfate
E	Dithylinum
№	krok 2013
Topic	clinical pharmacology of NSAID
Task	A patient after acute myocardial infarction has been recommended to take acetylsalicylic acid for 3-4 months. What effect of acetylsalicylic acid would be most relevant for this patient?
Correct answer	Antiplatelet
B	Antipyretic
C	Analgesic
D	Antiinflammatory
E	Spasmolytic
№	krok 2013
Topic	clinical pharmacology of bronchodilators
Task	Select a drug for the treatment of bronchial asthma from the group of β_2 -agonists:
Correct answer	Salbutamol
B	Aminophylline
C	Atrovent
D	Ketotifen
E	Beclomethasone
№	krok 2013

Topic	treatment of stenocardia attack
Task	Which of the following sublingual drugs quickly relieves an attack of stenocardia?
Correct answer	Nitroglycerine
B	Digoxin
C	Amiodarone
D	Lisinopril
E	Corglycon
№	krok 2013
Topic	clinical pharmacology of drugs that inhibits of functions of cns
Task	Diazepam is used for the treatment of neuroses due to the following pharmacological effect:
Correct answer	Anxiolytic
B	Analgesic
C	Diuretic
D	Antipyretic
E	Antidepressant
№	krok 2013, 2012, 2011
Topic	principles of treatment of colics
Task	A patient has been administered a spasmolytic from the group of muscarinic receptor antagonists as a part of the complex treatment for renal colic. Specify this drug:
Correct answer	Atropine
B	Neostigmine
C	Galantamine
D	Dithylinum
E	Benzohexonium
№	krok 2013, 2012, 2010, 2009
Topic	side effects of drugs

Task	A patient with a history of allergic rhinitis has been prescribed ephedrine in form of nasal drops. The patient has significantly benefited from nasal instillation, and this stimulated him to use the drug every two hours. But under these conditions the drug appeared to be ineffective. What is the most likely cause of this phenomenon?
Correct answer	Tachyphylaxis
B	Drug dependence
C	Idiosyncrasy
D	Allergy
E	Cumulation
№	krok 2013
Topic	clinical pharmacology of drugs that inhibits functions of cns
Task	A 25-year-old patient with frequent migraine attacks has been prescribed sumatriptan. Specify the mechanism of its action:
Correct answer	Selective agonist of 5 – HT_1 -serotonin receptors
B	Selective antagonist of 5 – HT_1 -serotonin receptors
C	Nonselective α -blocker
D	Stimulator of β -adrenergic receptors
E	Selective α -blocker
№	krok 2013
Topic	clinical pharmacology of antiinflammatory drugs
Task	A 43-year-old patient with a severe form of rheumatoid arthritis has been administered a certain drug for background therapy. Specify this drug:
Correct answer	Methotrexate
B	Diclofenac sodium
C	Nimesulide
D	Prednisolone

E	Methylprednisolone
№	krok 2013
Topic	Clinical pharmacology of antihypertensive drugs
Task	A female 49-year-old patient complains of compressing headache in the occipital region, dizziness, increased ABP. The patient has a history of diabetes mellitus type II. What diuretic DOES NOT affect the blood glucose level?
Correct answer	Indapamide
B	Furosemide
C	Hypothiazide
D	Ethacrynic acid
E	Urea
№	krok 2013
Topic	clinical pharmacology of bronchodilators
Task	Bronchodilatory effect of short-acting β_2 -adrenoceptor agonist salbutamol develops after:
Correct answer	5-10 minutes
B	20-30 minutes
C	45-60 minutes
D	2-3 hours
E	4-6 hours
№	krok 2013
Topic	clinical pharmacology of antibiotics
Task	A 12 weeks pregnant patient has been hospitalized with symptoms of acute cystitis. What antibiotic can be recommend in this case?
Correct answer	Amoxicillin
B	Ciprofloxacin
C	Gentamicin

D	Metronidazole
E	Tetracycline
№	krok 2013
Topic	clinical pharmacology of antiarrhythmic drugs
Task	A 35-year-old patient with tachycardia has been administered propranolol. Which of the following reactions may be caused by the use of beta-blockers?
Correct answer	Bronchospasm
B	Drug dependence
C	Cumulation
D	Blood pressure rise
E	Constipations
№	krok 2013
Topic	clinical pharmacology of insulin drugs
Task	A 17-year-old patient complains of persistent thirst, dry mouth, frequent urination, increased appetite. Blood glucose is at the rate of 11 mmol/l. The patient has been diagnosed with diabetes mellitus type I. What drug is indicated for treatment?
Correct answer	Insulin
B	Maninil
C	Glibenclamide
D	Acarbose
E	Asparcamum
№	krok 2013
Topic	clinical pharmacology of diuretics
Task	Which of the following diuretics SHOULD NOT be administered to patients with impaired hearing?
Correct answer	Furosemide
B	Spirolactone
C	Clopamide

D	Indapamide
E	Chlorthalidone
№	krok 2013
Topic	clinical pharmacology of nsaid
Task	A patient who has been taking acetylsalicylic acid developed hemorrhages of mucous membranes. This phenomenon is associated with:
Correct answer	Inhibition of the prothrombin synthesis
B	Increased absorption in the gastrointestinal tract
C	Decreased absorption in the gastrointestinal tract
D	Disorder of protein binding
E	Changed volume of distribution
№	krok 2013
Topic	interaction of drugs
Task	Simultaneous use of paracetamol and acetylcysteine causes:
Correct answer	Reduction of paracetamol hepatotoxicity
B	Reduction of anti-inflammatory action of paracetamol
C	Inhibition of paracetamol absorption
D	Increase of mucolytic action of acetylcysteine
E	Increase of paracetamol nephrotoxicity
№	krok 2013
Topic	interaction of drugs
Task	Simultaneous use of gentamicin and acyclovir tablets increases the risk of:
Correct answer	Nephrotoxicity
B	Hepatotoxicity
C	Cardiotoxicity
D	Neurotoxicity
E	Likelihood of allergic reactions

№	krok 2013
Topic	interaction of drugs
Task	Simultaneous use of doxycycline hydrochloride and oral contraceptive causes:
Correct answer	Reduction of oral contraceptives effectiveness
B	Increase of oral contraceptives effectiveness
C	Increase of the antibacterial effect of doxycycline
D	Reduction of the antibacterial effect of doxycycline
E	–
№	krok 2013
Topic	clinical pharmacology of antianginal drugs
Task	A 70-year-old patient with stenocardia claims that the pharmacy sold him a drug that relieved an attack of stenocardia but instead caused an acute bursting headache. What antianginal drug is this side effect typical for?
Correct answer	Nitrosorbid
B	Amlodipine
C	Nifedipine
D	Trimetazidine
E	Metoprolol
№	krok 2013
Topic	clinical pharmacology of antianaemic drugs
Task	Biochemical blood test revealed low level of serum iron. What disease are these changes typical for?
Correct answer	Iron-deficiency anemia
B	Acute bronchitis
C	Bronchial asthma
D	Pneumonia
E	Bronchiectasis
№	krok 2013

Topic	clinical pharmacology of antihypertensive drugs
Task	A patient who has been treated for hypertension complains of cough. Objective examination reveals no changes in the lungs. Which of the following drugs might have caused cough?
Correct answer	Captopril
B	Amlodipine
C	Hypothiazide
D	Nebivolol
E	Clonidine
№	krok 2013
Topic	pharmaceutical care in respiratory diseases
Task	What non-narcotic antitussive drug of central action can be used for dry cough?
Correct answer	Glaucine
B	Codeine
C	Acetylcysteine
D	Ambroxol
E	Mucaltin
№	krok 2009
Topic	side effects of drugs
Task	A 32-year-old patient takes antituberculous drugs. Some time later he has noticed that his urine turned orange. What preparation is the most likely cause of this phenomenon?
Correct answer	Rifampicin
B	Isoniazid
C	Pyrazinamide
D	Ethambutol
E	Streptomycin sulfate
№	krok 2009
Topic	clinical pharmacology of antianginal drugs

Task	6 months after treatment a patient with coronary heart disease developed tolerance to the nitrates with prolonged action. What drug with nitrate similar effect should be recommended in this case?
Correct answer	Molsidomine
B	Nifedipine
C	Prasosine
D	Verapamil
E	Metoprolol
№	krok 2009
Topic	clinical pharmacology of steroidal antiinflammatory drugs
Task	A 33-year-old woman who has been treated for chronic polyarthritis for a long time complains about arterial pressure rise, change of adipose tissue distribution, menstrual cycle disorder. What drug on has she taken?
Correct answer	Prednisolone
B	Indometacin
C	Butadion
D	Synaflan
E	Diclofenac sodium
№	krok 2009
Topic	clinical pharmacology of antihypertensive drugs
Task	A patient suffering from essential hypertension has increased concentration of renin in blood plasma. Which pharmacological group should be preferred for this patient treatment?
Correct answer	ACE inhibitors
B	α -adrenoblockers
C	Diuretics
D	Blockers of calcium channels
E	Sympatholytics
№	krok 2009

Topic	clinical pharmacology of drugs that inhibits functions of cns
Task	A patient suffering from neurosis accompanied by anxiety and fear development was prescribed diazepam. What pharmacological effect makes it possible to apply the drug for this disease treatment?
Correct answer	Anxiolytic
B	Antiarrhythmic
C	Anti-inflammatory
D	Hypotensive
E	Antianginal
№	krok 2009
Topic	antidote treatment
Task	In hospital admitted a child with signs of poisoning with belladonna alkaloids. What drug should be applied as an antidote?
Correct answer	Proserin
B	Magnesium sulfate
C	Sodium caffeine benzoate
D	Paracetamol
E	Sodium valproate
№	krok 2009
Topic	clinical pharmacology of antitussive drugs
Task	A 34-year-old patient suffering from bronchitis was prescribed an antitussive drug of central action. What drug is it?
Correct answer	Glaucine
B	Corglycon
C	Enalapril
D	Furosemide
E	Fercoven
№	krok 2009

Topic	side effects of drugs
Task	Continuous taking of a drug results in reduction of its efficiency. This phenomenon is called:
Correct answer	Habituation
B	Sensibilization
C	Cumulation
D	Dependence
E	Tachyphylaxis
№	krok 2009
Topic	clinical pharmacology of antihypertensive drugs
Task	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?
Correct answer	β -adrenoreceptor blockers
B	Calcium channel blockers
C	Tranquilizers
D	Angiotensin receptor blockers
E	Diuretics
№	krok 2009
Topic	clinical pharmacology of antibacterial drugs
Task	An 18-year-old patient was diagnosed with disseminated pulmonary tuberculosis. What drug will provide etiotropic pharmacotherapy?
Correct answer	Isoniazid
B	Benzympenicillin sodium salt
C	Trimethoprim
D	Lincomycin
E	Metronidazole
№	krok 2009

Topic	side effects of drugs
Task	A patient has accidentally taken a barium-containing salt. All of the following salts have toxic effect upon the human organism EXCEPT for:
Correct answer	Barium sulfate
B	Barium carbonate
C	Barium nitrate
D	Barium acetate
E	Barium chloride
№	krok 2009
Topic	clinical pharmacology of antihypertensive drugs
Task	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:
Correct answer	Bradykinin
B	Angiotensin-1
C	Renin
D	Aldosterone
E	Natriuretic peptide
№	krok 2009
Topic	clinical pharmacology of antiallergic drugs
Task	A man came to a pharmacy and asked to recommend him a drug for treatment of allergic rhinitis that occurs in the period of linden flowering. What drug may be applied?
Correct answer	Loratadine
B	Adrenaline
C	Anapriline
D	Ambroxol
E	Losartan

№	krok 2009
Topic	clinical pharmacology of antiallergic drugs
Task	During the sensitivity test for benzylpenicillin a patient developed anaphylactic shock. The following preparation must be injected around the spot of antibiotic injection:
Correct answer	Adrenaline hydrochloride
B	Noradrenaline hydrotartrate
C	Atropine sulfate
D	Propranolol
E	Ceftriaxon
№	krok 2009
Topic	pharmaceutical care in constipation
Task	Which preparation from the group of laxative agents IS NOT to be administered in case of intoxication with CNS-inhibiting substances?
Correct answer	Magnesium sulfate
B	Sodium sulfate
C	Vaseline oil
D	Bisacodyl
E	Guttalax
№	krok 2009
Topic	clinical pharmacology of bronchodilators
Task	A patient with bronchial asthma was prescribed salbutamol that has led to relief of bronchospasm symptoms. This is associated with stimulation of:
Correct answer	β_2 -adrenoreceptors
B	α_1 -adrenoreceptors
C	Muscarinic cholinoreceptors
D	Acetylcholine synthesis

E	β_1 -adrenoreceptors
№	krok 2009
Topic	clinical pharmacology of mucolytics
Task	A 46-year-old patient suffering from chronic bronchitis came to a pharmacy. What expectorative drug may be recommended?
Correct answer	Ambroxol
B	Falimint
C	Libexin
D	Glauvent
E	Salbutamol
№	krok 2009
Topic	pharmaceutical care in fever
Task	A 26-year-old pregnant woman (III trimester of pregnancy) complains about body temperature rise up to $39^{\circ}C$. What febrifuge may be recommended in this case?
Correct answer	Paracetamol
B	Aspirin
C	Diclofenac
D	Analgin
E	Indometacin
№	krok 2009
Topic	clinical pharmacology of steroidal antiinflammatory drugs
Task	A 48-year-old patient was given an intravenous injection of prednisolone in order to arrest a severe attack of bronchial asthma. Prednisolone relates to the following group of hormonal drugs:
Correct answer	Glucocorticoids
B	Gestagenic drugs
C	Estrogens

D	Mineral corticoids
E	Anabolic steroids
№	krok 2009
Topic	side effects of drugs
Task	A patient who has been taking fenazepam for a month came to a pharmacy. He insisted on buying another two packs of this drug. According to the patient, he feels unwell without fenazepam. What is the mechanism of the developed side effect?
Correct answer	Drug dependence
B	Idiosyncrasy
C	Aftereffect syndrome
D	Cumulation
E	Addiction
№	krok 2009
Topic	side effects of antibiotics
Task	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:
Correct answer	Probiotics
B	Spasmolytics
C	Cholagogic
D	Antacids
E	Adaptogens
№	krok 2009
Topic	pharmaceutical care in rhinitis
Task	A patient with arterial hypertension was administered a nonprescription 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?

Correct answer	Ointment
B	Gel
C	Drops
D	Aerosol
E	Tablets
№	krok 2009
Topic	interaction of drugs, clinical pharmacology of antihypertensive drugs
Task	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:
Correct answer	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
№	krok 2009
Topic	clinical pharmacodynamics
Task	During an operation a dentist needs to reduce salivation in a patient. The dentist has to use a drug of the following pharmacological group:
Correct answer	Muscarinic receptor blockers
B	Muscarinic cholinomimetics
C	Adrenomimetics
D	Adrenoceptor blocker
E	Muscarinic and nicotinic cholinomimetics
№	krok 2009
Topic	clinical pharmacology of bronchodilators
Task	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?

Correct answer	Theophylline
B	Prednisolone
C	Tavegyl
D	Intal
E	Acetylcysteine
№	krok 2009
Topic	clinical pharmacology of bronchodilators and antiarrhythmic drugs
Task	A 40-year-old patient suffers from bronchial asthma and cardiac rhythm disturbance in form of bradyarrhythmia. Drugs of which pharmacological group should be administered for bronchospasm elimination?
Correct answer	Muscarinic receptor blockers
B	Beta-adrenoceptor blockers
C	Muscarinic cholinomimetics
D	Anticholinesterase drugs
E	Muscle relaxants
№	krok 2018-2019
Topic	clinical pharmacy of antihypertensive drugs
Task	A patient suffering from bronchial asthma was diagnosed with essential hypertension. What antihypertensive drug is contraindicated for this patient?
Correct answer	Propranolol
B	Captopril
C	Amlodipine
D	Hypothiazid (Hydrochlorothiazide)
E	Verapamil
№	krok 2018-2019
Topic	Clinical pharmacy of nitrates, principles of treatment stenocardia attack

Task	A pharmacy customer complains of constricting retrosternal pain that irradiates into the left arm; he fears that he may die. The pain appeared suddenly after physical exertion. Name the first aid medicine in this case:
Correct answer	Nitroglycerine
B	Metacycline
C	Naphthyzin (Naphazoline)
D	Panangin
E	Riboxin (Inosine)
№	krok 2018-2019
Topic	clinical pharmacy of antianaemic drugs
Task	To treat iron-deficiency anemia the following drug is usually prescribed:
Correct answer	Ferroplex
B	Furagin (Furazidinum)
C	Corticosteroids
D	Heparin
E	Vicasol (Menadione)
№	krok 2018-2019
Topic	Clinical pharmacy of nitrates
Task	A 45-year-old man has been taking long-acting nitrates twice a day for a year. Currently a decrease ineffectiveness of the pharmacotherapy is being observed. What side-effect can be suspected in the first place?
Correct answer	Development of nitrate tolerance
B	Progressing ischemic heart disease
C	Progressing coronary atherosclerosis
D	Myocardial infarction
E	Impairment of coronary circulation
№	krok 2018-2019

Topic	Pharmaceutical care in urinary tract diseases
Task	A 43-year-old patient was delivered to an admission room with renal colic attack. What group of drugs would be the most effective during the attack?
Correct answer	Antispasmodics
B	Hepatoprotectors
C	Antacids
D	Antibiotics
E	Cholagogues
№	krok 2018-2019
Topic	Clinical pharmacy of antianginal drugs
Task	A 63-year-old man suffering from ischemic heart disease was diagnosed with angle closure glaucoma. What group of drugs is CONTRAINDICATED in this case?
Correct answer	Nitrates
B	β -adrenergic blockers
C	Calcium antagonists
D	Anticoagulants
E	Statins
№	krok 2018-2019
Topic	clinical pharmacy of antihypertensive drugs
Task	What hypotensive drug is an agent of choice for the patients suffering from arterial hypertension with concomitant type I diabetes mellitus?
Correct answer	Lisinopril
B	Hydrochlorothiazide
C	Atenolol
D	Labetalol
E	Carvedilol
№	krok 2018-2019

Topic	Clinical pharmacy of antimicrobial drugs in urinary tract infections
Task	A 25-year-old man is diagnosed with acute pyelonephritis of moderate severity. What drugs should be prescribed for etiologic therapy?
Correct answer	Antimicrobial agents
B	Glucocorticoids
C	Non-steroidal anti-inflammatory drugs
D	Anticholinesterase drugs
E	Antiarrhythmic drugs
№	krok 2018-2019
Topic	Clinical pharmacy of nitrates, principles of treatment stenocardia attack
Task	A 53-year-old woman suffers from ischemic heart disease and angina pectoris. What drug can be used to stop angina pectoris attacks?
Correct answer	Nitroglycerine
B	Drotaverine hydrochloride
C	Propranolol
D	Dipyridamol
E	Acetylsalicylic acid
№	krok 2018-2019
Topic	Clinical pharmacy of antiallergic drugs
Task	A patient is 20 years old. After she was stung by a bee the patient developed Quincke's disease; rash in the form of blisters and papulae appeared on her torso. First aid in this case should start with administering the following drug:
Correct answer	Prednisolone
B	Penicillin
C	Fresh frozen plasma
D	Rheopolyglukin (Dextran)
E	Haemodes

№	krok 2018-2019
Topic	Clinical pharmacy of antihypertensive drugs, side effects
Task	A patient developed dry cough while undergoing pharmacotherapy for arterial hypertension. What group of drugs can be characterized by this side effect?
Correct answer	ACE inhibitors
B	Calcium antagonists
C	Antipsychotics
D	Tranquilizers
E	Antacids
№	krok 2018-2019
Topic	clinical pharmacy of bronchodilators, side effects
Task	During anasphyxiating attack the patient with bronchial asthma was given intravenously a drug that caused nausea, headache, excitation, and palpitations as side effects. What drug can cause such reaction?
Correct answer	Euphylline (Aminophylline)
B	Prednisolone
C	Ambroxol
D	Suprastin (Chloropyramine)
E	Papaverine hydrochloride
№	krok 2018-2019
Topic	side effects of bismuth compounds
Task	A man with gastric ulcer is prescribed anti-Helicobacter pylori therapy. On the 3rd day the patient developed black color in his feces. What had caused such changes?
Correct answer	Bismuth subcitrate
B	Omeprazole
C	Metronidazole
D	Tetracycline

E	Tinidazole
№	krok 2018-2019
Topic	clinical pharmacy of mucolytics
Task	A 46-year-old pharmacy customer suffers from chronic bronchitis and needs a medicine to facilitate expectoration of thick viscous sputum. What drug is indicated in this case?
Correct answer	Ambroxol
B	Oxeladin
C	Salbutamol
D	Butamirate
E	Codeine phosphate
№	krok 2018-2019
Topic	clinical pharmacy of drugs for normalizing metabolic processes
Task	A 52-year-old patient has been diagnosed with gouty arthritis, phase 2. What drug should be basic in treatment of this patient?
Correct answer	Allopurinol
B	Hydrochlorothiazide
C	Paracetamol
D	Furosemide
E	Penicillin
№	krok 2018-2019
Topic	clinical pharmacy of non-steroidal anti-inflammatory drugs
Task	A 3-year-old child is intolerant to paracetamol. What antipyretic drug can be taken instead?
Correct answer	Ibuprofen
B	Acetylsalicylic acid
C	Nimesulide
D	Naproxen
E	Diclofenac sodium

№	krok 2018-2019
Topic	clinical pharmacy of nitrates, side effects
Task	A patient with angina pectoris takes long-acting nitrates. Consult him what side effect is the most common for these drugs:
Correct answer	Headache
B	Nausea
C	Vomiting
D	Diarrhea
E	Constipation
№	krok 2018-2019
Topic	clinical pharmacy of antiplatelet drugs
Task	A 60-year-old patient, who had suffered a myocardial infarction, was prescribed acetylsalicylic acid as an antiaggregant. Specify the optimal daily dosage of acetylsalicylic acid for antiaggregatory effect:
Correct answer	100mg
B	200mg
C	300mg
D	400mg
E	500mg
№	krok 2018-2019
Topic	types of side effects
Task	Genetically induced adverse reaction to a certain drug is caused by various enzyme defects. Name this reaction:
Correct answer	Idiosyncrasy
B	Withdrawal syndrome
C	Steal syndrome
D	Rebound effect
E	Dysbiosis

№	krok 2018-2019
Topic	types of side effects
Task	A 25-year-old woman is in the third trimester of her pregnancy. During her regular examination, US detected a malformation in the fetus. Medical history of the patient shows that she was taking large doses of diazepam without prescription during her pregnancy. What type of side effect has occurred in this case?
Correct answer	Teratogenic
B	Embryotoxic
C	Fetotoxic
D	Carcinogenic
E	Mutagenic
№	krok 2018-2019
Topic	Treatment of hypertensive crisis
Task	A 43-year-old woman has come to a pharmacy with complaints of sharp headache in the occipital area, palpitations, "visual snow" in her eyes, nausea; her BP is 180/110 mm Hg. These symptoms correspond with:
Correct answer	Hypertensive crisis
B	Migraine attack
C	Exertional angina pectoris attack
D	Cervical osteochondrosis
E	Acute conjunctivitis
№	krok 2018-2019
Topic	side effects of antibiotics
Task	A patient, who has undergone treatment for community-acquired pneumonia, complains of hearing impairment. What antibacterial drug could result in such a side effect?
Correct answer	Gentamicin
B	Amoxicillin/clavulanate

C	Cefazolin
D	Ciprofloxacin
E	Clarithromycin
№	krok 2018-2019
Topic	clinical pharmacy of antiviral drugs
Task	A 36-year-old woman with herpetic rash on her lips has come to a pharmacy. Recommend her a drug for topical treatment:
Correct answer	Acyclovir
B	Fluconazole
C	Levofloxacin
D	Metronidazole
E	Amikacin
№	krok 2018-2019
Topic	principles of choice of antibacterial drugs
Task	A woman with open tuberculosis is undergoing in-patient treatment in the tuberculosis clinic. What drug was prescribed by her physician for etiotropic treatment?
Correct answer	Isoniazid
B	Acyclovir
C	Metronidazole
D	Doxycycline hydrochloride
E	Benzylopenicillin (PenicillinG)
№	krok 2018-2019
Topic	types of side effects
Task	A patient has been receiving palliative treatment with morphine hydrochloride for a week. Following that the patient demands continuation of this treatment. What phenomenon has occurred in this case?
Correct answer	Dependence
B	Tolerance

C	Cumulation
D	Potentialion
E	Summation
№	krok 2018-2019
Topic	side effects of antibiotics
Task	A 65-year-old man with community-acquired pneumonia was prescribed antibiotic agent amikacin. It should be kept in mind, that amikacin has the following side-effect:
Correct answer	Ototoxicity
B	Red coloring of urine
C	Vomiting
D	Increased blood pressure
E	Decreased blood pressure
№	krok 2018-2019
Topic	clinical pharmacy of drugs for normalizing metabolic processes
Task	Several cholesterol gallstones are detected in the gallbladder of a woman. Choose the drug to dissolve and excrete the stones:
Correct answer	Ursodeoxycholic acid
B	Papaverine
C	Domperidone
D	Loperamide
E	Platyphyllin
№	krok 2018-2019
Topic	side effects of bismuth compounds
Task	During anti-Helicobacter quadro therapy patient's feces colored black. What drug could have caused this effect?
Correct answer	Bismuth subcitrate
B	Omeprazole

C	Amoxicillin
D	Clarithromycin
E	Metronidazole
№	krok 2018-2019
Topic	antidote treatment
Task	A patient receives heparin for acute myocardial infarction. On the third day the patient developed hematuria and subcutaneous hematomas. What medicine should be prescribed as an antidote in this case?
Correct answer	Protamine sulfate
B	Vicasol (Menadione)
C	Streptokinase
D	Clopidogrel
E	Acetylsalicylic acid
№	krok 2018-2019
Topic	pharmaceutical care at fever
Task	A young mother has come to a pharmacy to buy an antipyretic drug for her 3-month- old infant. What dosage form would you choose for the infant?
Correct answer	Suppositories
B	Tablets
C	Capsules
D	Spray
E	Lozenges
№	krok 2018-2019
Topic	side effects of antibiotics, profilaxis
Task	A 74-year-old man came to the pharmacy. He had been prescribed ampicillin for antibiotic treatment of dysenteric gastroenterocolitis. What group of drugs should be recommended for dysbiosis prevention in this case?

Correct answer	Probiotics
B	Antacids
C	Enzymatic agents
D	Sorbents
E	Immunosuppressants
№	krok 2018-2019
Topic	clinical pharmacy of antacids, side effects
Task	A 28-year-old woman came to a pharmacy complaining of constipation that developed after antacid treatment. What drug could be the cause of this symptom?
Correct answer	Aluminium-containing drugs
B	Magnesium-containing drugs
C	Calcium carbonate
D	Simethicone
E	Ranitidine
№	krok 2018-2019
Topic	clinical pharmacy of antacids, side effects
Task	What antacid can cause constipations, osteoporosis, and encephalopathy when taken for along period of time?
Correct answer	Aluminium hydroxide
B	Sodium bicarbonate
C	Calcium carbonate
D	Sodium alginate
E	Magnesium oxide
№	krok 2018-2019
Topic	clinical pharmacy of vitamins

Task	A 60-year-old man has come to a pharmacy with complaints of impaired twilight vision, dry sclera, cracked and peeling skin. The dispensing chemist suspected hypovitaminosis and recommended the customer to take the following drug after consultation with the physician:
Correct answer	Retinol acetate
B	Tocopherol acetate
C	Ergocalciferol
D	Vicasol (Menadione)
E	Ascorbic acid
№	krok 2018-2019
Topic	clinical pharmacy of ace inhibitors, interaction of drugs
Task	A patient with arterial hypertension, who takes captopril, was prescribed a potassium-sparing diuretic, spironolactone. What complication can develop in the patient due to this combination of drugs?
Correct answer	Hyperkalemia
B	Hypocalcemia
C	Hyponatremia
D	Hypoglycemia
E	Hypernatremia
№	krok 2018-2019
Topic	interaction of drugs
Task	A patient was prescribed an oral antibiotic for treatment and an antacid to remove heartburn symptoms. If the drugs are taken simultaneously their interaction can result in the following:
Correct answer	Antibiotic malabsorption
B	Relative overdosage
C	Inhibition of hepatic microsomal enzymes
D	Mutual potentiation
E	Acceleration of metabolism and excretion
№	krok 2018-2019

Topic	principles of choice of antibacterial drugs, side effects of antibiotics
Task	A 63-year-old woman suffering from diabetic nephropathy with functional disturbance of the kidneys needs etiotropic treatment for focal pneumonia. What drug is CONTRAINDICATED in this case?
Correct answer	Aminoglycosides
B	Natural penicillins
C	Synthetic penicillins
D	Macrolides
E	Combined penicillins
№	krok 2018-2019
Topic	clinical pharmacy of hypolipidemic drugs
Task	A 68-year-old man has been prescribed a hypolipidemic agent as a part of his combination therapy for ischemic heart disease. Name this drug:
Correct answer	Atorvastatin
B	Nitroglycerine
C	Lisinopril
D	Nifedipine
E	Hydrochlorothiazide
№	krok 2018-2019
Topic	interaction of drugs
Task	When dispensing an antacid agent and ofloxacin in tablets, the dispensing chemist warned the customer that these drugs should be taken separately with 2-hour interval in between. Simultaneous taking of both drugs:
Correct answer	Decreases ofloxacin absorption
B	Increases ofloxacin absorption
C	Increases antacid effectiveness
D	Decreases antacid effectiveness
E	Increases risk of dysbiosis

№	krok 2018-2019
Topic	clinical pharmacy of antihypertensive drugs
Task	A 54-year-old hypertonic patient undergoing pharmacotherapy developed bronchial spasm. His physician considers it to be a therapy-induced complication caused by the drug that belongs to the following group:
Correct answer	β -adrenergic blockers
B	Calcium antagonists
C	α -adrenergic blockers
D	Ganglionic blockers
E	Diuretics
№	krok 2018-2019
Topic	antidote treatment
Task	A patient with chronic heart failure, who has been taking cardiac glycosides, developed signs of glycoside intoxication. What antidote would be advisable in this case?
Correct answer	Unithiol (DMPS)
B	Vicasol (Menadione)
C	Protamine
D	Naloxone
E	Methionine
№	krok 2018-2019
Topic	clinical pharmacy of nitrofurans
Task	For treatment of enteric infection a 36-year-old woman was prescribed a nitrofuran derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:
Correct answer	Nifuroxazide
B	Furacilin (Nitrofurantoin)
C	Nitroxoline
D	Furadonin (Nitrofurantoin)

E	Nalidixic acid
№	krok 2018-2019
Topic	side effects of antibiotics, profylaxis
Task	Specify the drugs recommended for prevention and correction of dysbiotic problems caused by antibiotic therapy:
Correct answer	Probiotics
B	Antacids
C	Prokinetics
D	Uroseptics
E	Choleretics
№	krok 2020
Topic	Clinical pharmacy of mucolytics, expectorants
Task	A 24-year-old man suffers from exacerbation of chronic bronchitis. This condition is accompanied by production of a small amount of viscous sputum. What drug is indicated to facilitate the expectoration in this case?
Correct answer	Acetylcysteine
B	Fenterol
C	Oxeladin
D	Ipratropium bromide
E	Budesonide
№	krok 2020
Topic	Side effects of antibiotics, there profylaxis and treatment
Task	In the course of the pharmacotherapy for exacerbation of chronic bronchitis, the patient developed dyspeptic disorders, photodermatitis, and disturbed hepatic function. Which of the prescribed drugs could have caused these signs?
Correct answer	Doxycycline
B	Acetylcysteine

C	Ambroxol
D	Codeine phosphate
E	Ascorbic acid
№	krok 2020
Topic	Pharmaceutical care at diseases of respiratory system
Task	A 46-year-old man came to a dispensing chemist complaining of a dry cough. What antitussive drug can he be recommended?
Correct answer	Oxeladin
B	Sodium bicarbonate
C	Tripsin
D	Acetylcysteine
E	Bromhexine
№	krok 2020
Topic	Clinical pharmacy of cardiac glycosides, side effects, antidote treatment
Task	A patient with chronic heart failure, who has been taking cardiac glycosides, developed signs of glycoside intoxication. What antidote would be advisable in this case?
Correct answer	Unithiol (DMPS)
B	Methionine
C	Naloxone
D	Protamine
E	Vicasol (Menadione)
№	krok 2020
Topic	Clinical pharmacy of antisecretional drugs
Task	A 44-year-old man was diagnosed with chronic hyperacid gastritis. What pharmacological group of drugs would be the most advisable in this case?
Правильный ответ	Proton pump inhibitors
B	Inhibitors of protein-degrading enzymes

C	Beta-blockers
D	Glucocorticosteroids
E	Alpha-blockers
№	krok 2020
Topic	Side effects of antibiotics, there profylaxis and treatment
Task	A woman with chronic bronchitis was prescribed azithromycin. After a time, she developed complaints of abdominal pain and distension, diarrhea, nausea, vomiting. What side effect is observed in this patient?
Correct answer	Dysbiosis
B	Chondrotoxicity
C	Photosensitization
D	Allergic response
E	Nephrotoxicity
№	krok 2020
Topic	Clinical pharmacy of vitamins
Task	A 60-year-old man has come to a pharmacy with complaints of impaired twilight vision, dry sclerae, cracked and peeling skin. The dispensing chemist suspected hypovitaminosis and recommended the customer to take the following drug after a consultation with the physician:
Correct answer	Retinol acetate
B	Vicasol (Menadione)
C	Tocopherol acetate
D	Ergocalciferol
E	Ascorbic acid
№	krok 2020
Topic	Principles of choice of antibacterial drugs, spectrum of antimicrobial activity
Task	A woman with open tuberculosis is undergoing in-patient treatment in the tuberculosis clinic. What drug was prescribed by her physician for etiotropic treatment?

Correct answer	Isoniazid
B	Metronidazole
C	Acyclovir
D	Doxycycline
E	Benzympenicillin (PenicillinG)
№	krok 2020
Topic	Side effects of drugs
Task	A patient was diagnosed with peptic ulcer disease and prescribed a combined pharmacotherapy. Several days later, his feces turned black. What medicine is likely to cause this phenomenon?
Correct answer	Bismuth subcitrate
B	Lansoprazole
C	Ranidine
D	Omeprazole
E	Famotidine
№	krok 2020
Topic	Clinical pharmacy of nitrates
Task	A patient with exertional angina pectoris had been taking isosorbide mononitrate orally for 2 months, when this drug lost its effectiveness. What is the likely cause of isosorbide mononitrate being no longer effective in this case?
Correct answer	Tolerance
B	Physical dependence
C	Cumulation
D	Psychological dependence
E	Sensitization
№	krok 2020
Topic	Principles of treatment angina pectoris attack

Task	A patient, who has undergoing treatment for ischemic heart disease, after physical exertion felt an acute pain in the cardiac area. What drug can be prescribed in this case for quick relief of the pain syndrome?
Correct answer	Nitroglycerine
B	Enalapril
C	Corgycon (convallatoxin)
D	Prazosin
E	Captopril
№	krok 2020
Topic	Clinical pharmacy of preparations of insulin
Task	A 24-year-old patient after a thorough examination was diagnosed with type 1 diabetes mellitus for the first time. What antihyperglycemic agent should be prescribed in this case?
Correct answer	Insulin
B	Glibenclamide
C	Metformin
D	Urea
E	Etacrynic acid
№	krok 2020
Topic	Clinical pharmacy of antiallergic drugs
Task	What drug should be used first in case of anaphylactic shock?
Correct answer	Prednisolone
B	Loratadine
C	Euphyllin (Aminophylline)
D	Dibazol (Bendazol)
E	Fexofenamide
№	krok 2020
Topic	Clinical pharmacy of anticoagulants, side effects, antidote treatment

Task	A patient receives heparin for acute myocardial infarction. On the third day the patient developed hematuria and subcutaneous hematomas. What medicine should be prescribed as an antidote in this case?
Correct answer	Protamine sulfate
B	Clopidogrel
C	Acetylsalicylic acid
D	Streptokinase
E	Vicasol (Menadione)
№	krok 2020
Topic	Clinical pharmacy of mucolytics and expectorants
Task	A patient, who has been taking an expectorant, has developed complaints of hypersalivation, rhinitis, and itching skin rashes (signs of iodism). What medicine can cause these side effect?
Correct answer	Potassium iodide
B	Mucaltin
C	Infusion of Thermopsis grass
D	Ammonium chloride
E	Ambroxol syrup
№	krok 2020
Topic	Clinical pharmacy of nitrates, side effects
Task	A woman suddenly developed an angina pectoris attack. To arrest the attack, she took a medicine that caused her a severe headache, facial hyperemia, and tachycardia. Such side effects are characteristic of the following group of drugs:
Correct answer	Nitrates
B	Beta-adrenergic antagonists
C	Alpha-adrenergic agonists
D	Calcium channel blockers
E	Antispasmodics

№	krok 2020
Topic	Principles of choice of antibacterial drugs
Task	A 25-year-old man is diagnosed with acute pyelonephritis of moderate severity. What drugs should be prescribed for etiotropic therapy?
Correct answer	Antimicrobial agents
B	Glucocorticoids
C	Antiarrhythmic drugs
D	Anticholinesterase drugs
E	Nonsteroidal anti-inflammatory drugs
№	krok 2020
Topic	Clinical pharmacy of diuretics
Task	A patient with heart failure has developed an electrolyte imbalance against the background of diuretic treatment with furosemide. What imbalance has the patient developed?
Correct answer	Hypokalemia
B	Hypocalcemia
C	Hypernatremia
D	Hyperkalemia
E	Hypermagnesemia
№	krok 2020
Topic	Pharmaceutical care at diseases of respiratory system
Task	A patient complaining of stuffy nose, fatigability, and headache came to a dispensing chemist. What medicine should be recommended to treat stuffy nose in this case?
Correct answer	Xylomethazoline
B	Paracetamol
C	Dexamethasone
D	Acyclovir
E	Lactulose

№	krok 2020
Topic	Clinical pharmacy of antianemic drugs
Task	A patient with iron-deficiency anemia was prescribed iron sulfate. What side effect is characteristic of iron preparations?
Correct answer	Constipation
B	Elevated blood pressure
C	Dysbiosis
D	Osteoporosis
E	Bradycardia
№	krok 2021
Topic	Interaction of drugs
Task	When activated charcoal is included into the combined therapy, the sorption of other medicines:
Correct answer	Decreases
D	Increases
C	Activates
D	Remains unchanged
E	Accelerates
№	krok 2021
Topic	Clinical pharmacology of hormones
Task	Select a non-steroid estrogen from the list below:
Correct answer	Synoestrol (Hexestrol)
B	Progesterone
C	Retabolil (Nandrolone)
D	Adrenalin
E	Prednisolone
№	krok 2021
Topic	Clinical pharmacology of antibiotics

Task	A 48-year-old woman, who undergoes a prolonged treatment for chronic hepatitis, was diagnosed with pneumonia. What antibacterial agent should she be prescribed in this case?
Correct answer	Amoxicillin
B	Rifampicin
C	Biseptol (co-trimoxazole)
D	Tetracycline
E	Streptomycin sulfate
№	krok 2021
Topic	Side effects of non-steroidal anti-inflammatory drugs
Task	Gastroduodenopathies are one of the most common complications of pharmacotherapy during treatment with nonsteroidal anti-inflammatory drugs. What statement correctly describes the cause of their development?
Correct answer	Inhibition of prostaglandin synthesis in the mucosa
B	Inhibition of platelet adhesion and aggregation
C	Inhibition of neutrophil aggregation
D	Inhibition of lipid peroxidation
E	Disturbed pain impulse conduction
№	krok 2021
Topic	Etiological principles of the treatment of stomach ulcer
Task	What antibacterial agent is a part of the eradication therapy for H.pylori during the treatment of peptic ulcer disease of the stomach?
Correct answer	Clarithromycin
B	Ceftriaxone
C	Meropenem
D	Gentamicin
E	Biseptol (co-trimoxazole)
№	krok 2021

Topic	Clinical pharmacology of nitrates, side effects
Task	A man has bought nitroglycerine for sublingual administration in a pharmacy. He wants to know, what side effect might develop after taking this medicine:
Correct answer	Headache
B	Urinary retention
C	Dry cough
D	Drowsiness
E	Increased blood pressure
№	krok 2021
Topic	Clinical pharmacology of the nitroimidazole derivatives
Task	What imidazole derivative affects anaerobic microorganisms and protozoa and is effective against mixed infections?
Correct answer	Metronidazole
B	Dibazol (Bendazol)
C	Caffeine
D	Camphor
E	Asparcam (Potassium aspartate and magnesiumaspartate)
№	krok 2021
Topic	Clinical pharmacology of beta-blockers, side effects
Task	A man with arterial hypertension was taking a beta blocker (bisoprolol) for a long time. When his condition improved, he suddenly stopped taking this drug and it resulted in an acute increase of his blood pressure. What complication of the therapy is it?
Correct answer	Withdrawal syndrome
B	Bradycardia
C	Reduced sensitivity
D	Bronchospasm
E	Dysbacteriosis

№	krok 2021
Topic	Clinical pharmacology of vitamins
Task	A man came to the ophthalmologist complaining of poor twilight vision. Having collected the patient's medical history, the doctor suspected that these signs could be caused by the lack of a certain vitamin. What vitamin is likely to be deficient in this case?
Correct answer	Retinol
B	Cholecalciferol
C	Ergocalciferol
D	Tocopherol
E	Phylloquinone (Phytomenadione)
№	krok 2021
Topic	Clinical pharmacokinetics
Task	Among the various types of tablet coating there are enterosoluble coatings. Where in the body are they dissolved?
Correct answer	Intestine
B	Esophagus
C	Stomach
D	Oral cavity
E	Rectum
№	krok 2021
Topic	Clinical pharmacology of hypotensive drugs, choice the drugs
Task	Name the drug of choice for treatment of arterial hypertension during pregnancy:
Correct answer	Alpha-methyldopa
B	Captopril
C	Propranolol
D	Sodium nitroprusside
E	Furosemide

№	krok 2021
Topic	Clinical pharmacology of hypotensive drugs, interaction drugs and food
Task	A man with arterial hypertension was recommended the following to increase the antihypertensive effect of a diuretic:
Correct answer	Decrease the amount of table salt in the diet
B	Decrease the physical exertion
C	Increase the physical exertion
D	Increase the amount of table salt in the diet
E	Increase the amount of liquids in the diet
№	krok 2021
Topic	Clinical pharmacology of nitrofurantoin derivatives
Task	For treatment of an enteric infection a 36-year-old woman was prescribed a nitrofurantoin derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:
Correct answer	Nifuroxazide
B	Furacilin (Nitrofurantoin)
C	Nalidixic acid
D	Furadonin (Nitrofurantoin)
E	Nitroxoline
№	krok 2021
Topic	Pharmaceutical care at fever
Task	A woman wants to stock the home first aid kit for her 4-month-old baby. She asked a dispensing chemist to recommend her an antipyretic for this purpose. What medicine and what dosage form would you recommend in this case?
Correct answer	Paracetamol rectal suppositories
B	Acetylsalicylic acid tablets
C	Acetylsalicylic acid powder
D	Diclofenac sodium tablets

E	Ibuprofen tablets
№	krok 2021
Topic	Pharmaceutical care at muscle pain
Task	The mother of a child came to a pharmacy to buy an anti-inflammatory medicine that can relieve the muscle pain in her 10-year-old son. What medicine would you recommend her?
Correct answer	Ibuprofen
B	Naproxen
C	Diclofenac
D	Acetylsalicylic acid
E	Nimesulide
№	krok 2021
Topic	Side effects of drugs
Task	A 25-year-old woman is in the third trimester of her pregnancy. During her regular examination, US detected a malformation in the fetus. Medical history of the patient shows that she was taking large doses of diazepam without prescription during her pregnancy. What type of side effect has occurred in this case?
Correct answer	Teratogenic
B	Fetotoxic
C	Carcinogenic
D	Embryotoxic
E	Mutagenic
№	krok 2021
Topic	Clinical pharmacology of antiallergic drugs
Task	What drug should be used first in case of anaphylactic shock?
Correct answer	Prednisolone
B	Dibazol (Bendazol)
C	Loratadine

D	Fexofenamide
E	Euphyllin (Aminophylline)
№	krok 2021
Topic	Clinical pharmacology of antihypertensive drugs
Task	A man with arterial hypertension has blood pressure of 160/100 mm Hg and heart rate of 64/min and presents with signs of fluid retention (pastose shins, dyspnea, etc.). What hypotensive agent is the drug of choice in case of edema syndrome?
Correct answer	Hydrochlorothiazide
B	Enalapril
C	Amlodipine
D	Losartan
E	Metoprolol
№	krok 2021
Topic	Clinical pharmacology of antibiotics
Task	Erythromycin belongs to the following type of antibiotics, based on its chemical structure:
Correct answer	Macrolides
B	Polyene antibiotics
C	Aromatic antibiotics
D	Beta-lactams
E	Polypeptides
№	krok 2021
Topic	Side effects of drugs
Task	After a surgery, a man was receiving promedol (trimeperidine) for a long time. When this drug was discontinued, the patient developed psychic and somatic disturbances. What phenomenon is it?
Correct answer	Withdrawal syndrome
B	Tachyphylaxis
C	Idiosyncrasy

D	Steal syndrome
E	Rebound effect
№	krok 2021
Topic	Treatment of the diabetic coma
Task	A woman with diabetes mellitus has developed hypoglycemia after insulin overdose. What measures should be taken at the first signs of hypoglycemia?
Correct answer	Give the patient a sugar lump to eat and a cup of warm sweetened tea
B	Make an insulin injection
C	Introduce 0,1 % adrenaline solution subcutaneously
D	Give nitroglycerine sublingually
E	Make an intramuscular injection of caffeine
№	krok 2021
Topic	Side effects of antibiotics
Task	A 6-year-old child developed pneumonia and was prescribed an antibiotic for its treatment. After the treatment the child's hearing deteriorated. What drug could have caused this complication?
Correct answer	Gentamicin
B	Penicillin
C	Ceftriaxone
D	Azithromycin
E	Ampicillin