

№	2023
Topic	ALLERGOLOGY
Task	A 46-year-old man came to a doctor with complaints of a rash on his hands that appeared one week ago and is accompanied by severe itching. The patient has a history of bronchial asthma and has seasonal allergies. Physical examination detects dry skin of the hands and multiple erythematous papules and vesicles with serous contents, as well as areas of lichenification and excoriation, on the back of both hands. What is the most likely diagnosis in this
Correct answer	Eczema
B	Psoriasis
C	Seborrheic dermatitis
D	Contact dermatitis
E	Scabies
№	2023
Topic	PULMONOLOGY
Task	1. A 34-year-old man fell ill 3 days ago after an overexposure to cold. He complains of a fever of 39.2°C, marked general weakness, sweating, and cough. The cough was initially dry, but within the last 24 hours a small amount of "rusty" sputum was produced. Objective examination detects herpes on the lips. Percussion reveals a dull sound in the lower pulmonary lobes. Auscultation detects bronchial breathing and tachycardia. No changes were detected in the organs of the abdominal cavity. What is the most likely diagnosis in this case?
Correct answer	Croupous pneumonia
B	Lung abscess
C	Community-acquired focal pneumonia
D	Nosocomial pneumonia
E	Exudative pleurisy
№	2023
Topic	CARDIOLOGY

Task	1. A 65-year-old patient was prescribed pharmacotherapy (ramipril, atorvastatin, amlodipine, acetylsalicylic acid, bisoprolol) for essential hypertension with concomitant ischemic heart disease. Two weeks later, he consulted a doctor about a dry cough. Examination detects no signs of acute respiratory viral infection or damage to the bronchopulmonary apparatus. A side effect of ramipril is suspected. What drug can be used to replace ramipril in the treatment plan?
Correct answer	Valsartan
B	Torasemide
C	Enalapril
D	Nifedipine
E	Nebivolol
№	2023
Topic	NEPHROLOGY
Task	Two weeks after a case of tonsillitis, a 29-year-old patient noticed facial edema, weakness, and decreased work capacity. Gradually, he developed shortness of breath, leg edema, and lumbar edema. Objectively, his skin is pale, his heart sounds are weakened, he has hydrothorax, anasarca, and blood pressure of 150/100 mm Hg. Clinical urinalysis shows the following: specific gravity — 1021, protein — 9 g/L, erythrocytes 40-50 in the vision field, hyaline casts — 4-6 in the vision field. What is the provisional diagnosis in this case?
Correct answer	Acute glomerulonephritis
B	Exacerbation of chronic glomerulonephritis
C	Acute pyelonephritis
D	Myxedema
E	Heart failure
№	2023
Topic	RHEUMATOLOGY

Task	A 26-year-old woman, who has been suffering from rheumatoid arthritis for 8 months, has edemas of her elbow, radiocarpal, knee, and ankle joints, and rheumatoid nodules in the area of her elbow joints. Complete blood count shows ESR of 57 mm/hour and C-reactive protein (+++). X- ray of the joints reveals marked osteoporosis. What medicine would be used as the basic therapy in this case?
Correct answer	Methotrexate
B	Diclofenac sodium -
C	Methylprednisolone
D	Infliximab
E	Meloxicam
№	2023
Topic	GASTROENTEROLOGY
Task	A 45-year-old man came to a doctor complaining of a sore throat and fever that last for ten days. The patient has a history of ulcerative colitis, is a smoker, and has been smoking one pack of cigarettes per day for ten years. The patient's father died of cancer of the large intestine at the age of 50. Physical examination shows the following: body temperature — 38.6°C, blood pressure — 130/80 mm Hg, pulse — 72/min., respiratory rate — 18/min. Examination of the oral cavity reveals erythematous pharynx and exudate in the tonsillar crypts. Antigen test for group A streptococcus was positive. What procedure that doctor can recommend for secondary prevention of cancer would be optimal for this patient?
Correct answer	Colonoscopy
B	Flexible sigmoidoscopy
C	PSA test and digital rectal examination
D	Low-dose CT scan of the lungs
E	Fecal occult blood test
№	2023
Topic	ENDOCRINOLOGY

Task	A 38-year-old pregnant woman, gravida 2, gestation term of 23-24 weeks, has type 2 diabetes mellitus, for which she receives metformin in the dose of 2500 mg per 24 hours. Laboratory analysis detects glycated hemoglobin (HbA1c) levels of 7.2 %. What further treatment strategy should be chosen for this patient?
Correct answer	Prescribe insulin therapy and discontinue metformin
B	Increase the dose of metformin to 3000 mg per 24 hours
C	Discontinue metformin and switch to sulfonylureas
D	Add GLP-1 analogues to metformin
E	Continue the treatment unchanged
№	2023
Topic	PULMONOLOGY
Task	A 36-year-old patient complains of suffocation attacks with predominantly problematic exhalation. The attacks occur up to 2-3 times a day and can be relieved by inhalation of β_2 -adrenomimetics. This condition lasts for 10 years already. Objectively, the chest is expanded, percussion detects a bandbox resonance over the lungs, auscultation detects harsh respiration with prolonged exhalation. Laboratory analysis of sputum detects numerous eosinophils, Charcot-Leyden crystals, and Curschmann spirals. What is the provisional diagnosis in this case?
Correct answer	Bronchial asthma
B	Spontaneous pneumothorax
C	Chronic obstructive bronchitis
D	Cardiac asthma
E	Carcinoid syndrome
№	2023
Topic	HEMOTOLOGY

Task	A 42-year-old man complains of weakness, palpitations, nosebleeds, and skin hemorrhages. His condition progressively deteriorates throughout the last month. Objectively, his condition is severe, he has petechial and spotted hemorrhages on the skin of his limbs and torso, lymph nodes and spleen are not palpable, the pulse is 116/min., the liver is +2 cm. Complete blood count reveals pancytopenia. What disease can be primarily suspected in this case?
Correct answer	Hypoplastic anemia
B	Hemorrhagic vasculitis
C	Acute leukemia
D	Acute agranulocytosis
E	Werlhof disease
№	2023
Topic	RHEUMATOLOGY
Task	A 27-year-old man came to a doctor with complaints of pain and swelling in his toes II and III on the left foot, redness of the eyes and purulent discharge from them, and painful urination. Patient history taking revealed that the patient has several sexual partners and rarely uses condoms. Physical examination revealed bilateral conjunctivitis and dactylitis of the toes. Blood test shows ESR of 40 mm/hour. X-ray of the toes detects an increase in the volume of soft tissues and joint space narrowing. What is the most likely diagnosis in this case?
Correct answer	Reactive arthritis
B	Gout
C	Rheumatoid arthritis
D	Syphilis
E	Gonorrhea
№	2023
Topic	GASTROENTEROLOGY

Task	An 18-year-old adolescent was diagnosed with a duodenal ulcer for the first time. The test for <i>Helicobacter pylori</i> is positive, the pH of gastric juice is 1.0. What would be the optimal treatment plan in this case?
Correct answer	Clarithromycin + omeprazole
B	De-nol (bismuth subcitrate) + trichopol (metronidazole)
C	De-nol (bismuth subcitrate) + cimetidine
D	Quamalel (famotidine) + amoxicillin
E	Omeprazole + oxacillin
№	2023
Topic	CARDIOLOGY
Task	A 48-year-old patient complains of frequent constricting retrosternal pain that radiates into the left shoulder and left scapula. Pain attacks occur at night, at complete rest, and last 10-15 minutes. During the visit to a polyclinic, no ECG abnormalities and no changes in the patient's general condition were detected. What examination would be most important for clarification of the diagnosis?
Correct answer	Holter ECG monitoring
B	Catheterization of cardiac chambers
C	Echocardiography
D	Repeat ECG in a week
E	Bicycle ergometry
№	2023
Topic	RHEUMATOLOGY
Task	A 40-year-old man complains of impaired vision, rapid heartbeat, and an aching pain in the muscles of his back, lumbar region, and legs and in his shoulder and hip joints. Objectively, the signs of uveitis can be observed. X-ray detects blurring of the contours of the sacroiliac joints and single syndesmophytes between the vertebral bodies. Laboratory testing detects antibodies against HLA-B27 antigens, anemia, and ESR of 28 mm/hour. What disease causes such a clinical presentation?
Correct answer	Ankylosing spondylitis

B	Deforming spondyloarthritis
C	Rheumatoid arthritis
D	Systemic lupus erythematosus
E	Reiter's syndrome
№	2023
Topic	RHEUMATOLOGY
Task	A 36-year-old woman complains of pain in her joints and muscles, loss of appetite, constipations, rapid fatigability, and a subfebrile body temperature. Objectively, she has dysphagia, symmetrical arthritis, skin thickening over hands and feet, atrophy and small ulcers on the fingertips, Raynaud's syndrome, telangiectasia. What disease is the cause of such a clinical presentation?
Correct answer	Systemic scleroderma
B	Rheumatoid arthritis
C	Dermatomyositis
D	Raynaud's disease
E	Systemic lupus erythematosus
№	2023
Topic	PULMONOLOGY
Task	A 22-year-old young man came to a doctor with complaints of fever and cough with yellow sputum. These symptoms have been observed for the last seven days. Physical examination shows the following: body temperature — 38.3°C, blood pressure — 130/70 mm Hg, heart rate — 79/min., respiratory rate — 17/min., SpO ₂ — 95 %. Auscultation detects moist crackles on the left. Survey X-ray of the chest reveals left lower lobe consolidations. What drug should be prescribed to the patient in this case?
Correct answer	Azithromycin
B	Ciprofloxacin
C	Trimethoprim/sulfamethoxazole
D	Gentamicin
E	Levofloxacin

№	2023
Topic	CARDIOLOGY
Task	One week ago, a 68-year-old woman suddenly developed pain in the left half of her chest and shortness of breath. Objectively, the following is observed: cyanosis, distended neck veins, pulse — 100/min., blood pressure — 110/70 mm Hg, respiratory rate — 28/min., liver +4 cm, the left lower leg is edematous and sharply painful to palpation. Auscultation detects a dull lung sound on the left, below the scapula; sonorous moist fine vesicular crackles are present; the borders of the heart are expanded on the right; the II heart sound is accentuated over the pulmonary artery. ECG shows deep S waves in leads I and aVL, as well as deep O waves in leads III and aVE and a negative T wave in leads III and aVF What is the most likely diagnosis in this case?
Correct answer	Thromboembolism of pulmonary artery branches
B	Pleurisy
C	Myocardial infarction
D	Croupous pneumonia
E	Pericarditis
№	2023
Topic	ENDOCRINOLOGY
Task	A 55-year-old woman came to a doctor with complaints of thyroid enlargement that could be observed throughout the last 2 years and a discomfort during swallowing. Objectively, she has signs of hypothyroidism. The thyroid gland on palpation is dense, non-fused with the surrounding tissues and mobile during swallowing. The regional lymph nodes are not enlarged. Laboratory testing detects antithyroid antibodies in the blood serum. What is the most likely diagnosis in this case?
Correct answer	Hashimoto's thyroiditis
B	Thyroid cancer
C	Endemic goiter
D	Midline cervical cyst
E	Acute thyroiditis

№	2023
Topic	PULMONOLOGY
Task	A 25-year-old pregnant woman complains of fever of 38.5°C that lasts for two days already, cough, and shortness of breath. She developed these complaints after an overexposure to cold. Auscultation detects crepitation and localized moist crackles in the lower part of the right lung. Percussion detects there a dull sound. Complete blood count shows the following: leukocytes — $11.0 \cdot 10^9/L$, ESR — 22 mm/hour. What anti-bacterial agent must be prescribed In this case?
Correct answer	Amoxicillin
B	Doxycycline
C	Carbenicillin
D	Amikacin
E	Levoiloxacin
№	2023
Topic	NEPHROLOGY
Task	A 64-year-old man came to a doctor with complaints of edemas of the legs, lower back, and anterior abdominal wall. He has a history of chronic bronchitis with bronchiectasis. Physical examination shows the following: body temperature — 37.2°C, blood pressure 110/75 mm Hg, pulse — 82/min., respiratory rate — 19/min. General urinalysis results are as follows: specific gravity — 1025, protein — 9.9 g/L, leukocytes — 2-3 in the vision field, erythrocytes — 1-2 in the vision field, no casts. Daily proteinuria is 11.4 g per 24 hours. Blood biochemistry test shows the following: total protein — 52 g/L, albumins - 30 g/L, cholesterol — 9.6 mmol/L. What type of kidney disorder is most likely in this patient?
Correct answer	Amyloidosis, nephrotic syndrome
B	Pyelonephritis, urinary syndrome
C	Tubulointerstitial nephritis, nephrotic syndrome
D	Glomerulonephritis, nephritic syndrome
E	Diabetic nephropathy, nephritic syndrome

№	2023
Topic	CARDIOLOGY
Task	A 45-year-old man with a history of myocardial infarction developed a brief attack of palpitations, accompanied by the sensations of lack of air, fear, and vertigo. His blood pressure is 90/60 mm Hg. ECG during the attack shows extended QRS complex (0.13 seconds) with the heart rate of 160/min., discordant shift of ST segment and T wave, dissociation of atrial and ventricular rhythm. What disturbance of cardiac rhythm is it?
Correct answer	Paroxysmal ventricular tachycardia
B	Ventricular fibrillation
C	Frequent ventricular extrasystoles
D	Atrial fibrillation
E	Paroxysmal supraventricular tachycardia
№	2023
Topic	HEMOTOLOGY
Task	A 63-year-old man came to a doctor with complaints of marked general weakness, poor appetite, weight loss, joint pain, and heaviness in the right subcostal area. Complete blood count shows the following: erythrocytes — $3.4 \cdot 10^{12}/L$, Hb — 102 g/L, color index — 0.9, platelets — $640 \cdot 10^9 /L$, leukocytes — $138 \cdot 10^9/L$, blasts — 1 %, promyelocytes — 2 %, myelocytes — 13 %, juvenile — 12 %, band neutrophils — 16 %, segmented neutrophils — 31 %, basophils — 3 %, eosinophils — 8 %, lymphocytes — 9 %, monocytes — 5 %, ESR — 30 mm/hour. What is the provisional diagnosis?
Correct answer	Chronic myeloid leukemia
B	Leukemoid reaction
C	Acute leukemia
D	Erythremia (polycythemia vera)
E	Chronic lymphocytic leukemia
№	2023

Topic	NEPHROLOGY
Task	A woman with polycystic kidney disease observes an increase in her 24-hour urine output to 2-2.5 liters. Dynamic nephrosclintigraphy shows the following: total glomerular filtration rate — 34 mL/min., serum creatinine — 84 μ mol/L, urea — 8.0 mmol/L. What stage of chronic kidney failure is it?
Correct answer	Compensated
B	Latent
C	Intermittent
D	Polyuric
E	Terminal
№	2023
Topic	NEPHROLOGY
Task	A 27-year-old patient developed a fever of 38.7°C, lumbar pain, weakness, and headache after an overexposure to cold. Examination detects a positive Pasternacki sign (costovertebral angle tenderness) on the left. General urinalysis detects pyuria and bacteriuria. What is the most likely diagnosis in this case?
Correct answer	Acute pyelonephritis
B	Acute glomerulonephritis
C	Renal colic
D	Acute cystitis
E	Paranephric abscess
№	2023
Topic	PULMONOLOGY
Task	Approximately 40 % of patients with bacterial pneumonia develop concomitant pleural effusion. This diagnosis can be confirmed by chest X-ray in the direct vertical projection, if there is at least:
Correct answer	300 mL of liquid
B	500 mL of liquid
C	200 mL of liquid
D	100 mL of liquid

E	-
№	2023
Topic	CARDIOLOGY
Task	A 64-year-old man is undergoing outpati-ent treatment for ischemic heart disease, di-ffuse cardiosclerosis, persistent atrial fibri-llation, and functional class III heart failure. The pharmacotherapy consists of cordaronc (amiodarone) twice a day, torasemide every other day, and trimetazidine twice a day. The family physician recommended taki-ng warfarin (3 mg per day) to prevent thrombus formation. What parameter should be measured in this case for optimal control of the effectiveness and safety of the anti-coagulant therapy?
Correct answer	International normalized ratio
B	Fibrinogen levels
C	Erythrocyte sedimentation rate
D	Platelet count
E	Lee-White clotting time
№	2023
Topic	ENDOCRINOLOGY
Task	A 34-year-old woman came to a doctor with complaints of muscle weakness, thirst, increased urination at night, paresthesias, and seizure attacks. Objectively, her general condition is satisfactory, her face and legs are doughy, her pulse is 80/min., her blood pressure is 200/110 mm Hg, the II heart sound is accentuktecT over the aorta. Complete blood count shows K^+ levels of 3.1 mmol/L and $Na^{4"}$ levels of 165 mmol/L. ECG shows inversion of T waves and depression of S-T segments. Ultrasound detects hyperplasia of the right adrenal gland. What is the provisi-onal diagnosis in this case?
Correct answer	Primary hyperaldosteronism
B	Hypoparathyroidism
C	Glucostroma
D	Pheochromocytoma

E	Essential hypertension
№	2023
Topic	CARDIOLOGY
Task	A 45-year-old man complains of an intense retrosternal pain that radiates into the lower jaw and occurs at rest, at night, several times for 10-15 minutes. During a pain attack, an elevation of the ST segment can be recorded on the ECG in leads V 3-4. What is the provisional diagnosis in this case?
Correct answer	Prinzmetal angina pectoris
B	Stable angina pectoris, functional class IV
C	Myocardial infarction
D	Stable angina pectoris, functional class II
E	Progressive angina pectoris
№	2023
Topic	RHEUMATOLOGY
Task	A 59-year-old woman complains of pain and edema in the small joints of her hands, shortness of breath, weakness. This condition lasts for 8 years already. Objectively, her body temperature is 37.8°C, she has fine punctate hemorrhages on her torso and limbs, ulnar deviation of the hands is observed. The borders of the heart are shifted to the left, a systolic murmur can be detected over the apex. Her pulse is 96/min. Her blood pressure is 170/100 mm Hg. Complete blood count shows the following: erythrocytes — $3.2 \cdot 10^{12}/L$, Hb — 108 g/L, leukocytes — $6.8 \cdot 10^9/L$, platelets - $220 \cdot 10^9/L$, ESR - 48 mm/hour, C-reactive protein (+++). General urinalysis shows the following: specific gravity — 1016, protein — 2.8 g/L, leukocytes — 10-12 in the vision field, erythrocytes — 2-4 in the vision field. What is the most likely diagnosis in this case?
Correct answer	Rheumatoid arthritis
B	Chronic glomerulonephritis ,
C	Thrombocytopenic purpura
D	Systemic lupus erythematosus

E	Rheumatism
№	2023
Topic	GASTROENTEROLOGY
Task	A 36-year-old man came to a doctor with complaints of burning retrosternal pain that usually occurs 1-1.5 hours after eating and becomes worse in a horizontal position. Esophagogastroduodenoscopy (EGD test) detects two lesion foci in the lower third of the esophageal mucosa. The foci are up to 5 mm in size and located within one fold. What tactics would be optimal in this case?
Correct answer	Prescription of proton pump inhibitors
B	Monitoring in the inpatient department
C	Surgical treatment
D	Prescription of clarithromycin
E	Prescription of non-narcotic analgesics
№	2023
Topic	CARDIOLOGY
Task	An 82-year-old woman was hospitalized into the cardiac intensive care unit with complaints of a sharp pain behind the sternum, a sensation of lack of air, and weakness. Chest X-ray shows that the transverse size of the cardiac shadow is enlarged, the shape of the shadow is tri-angular and has rounded cardiophrenic corners. Cardiac contractions are of small amplitude and arrhythmic. These X-ray findings most likely correspond with:
Correct answer	Exudative pericarditis
B	Myocarditis
C	Dilated cardiomyopathy
D	Trilogy of Fallot
E	Aortic stenosis
№	2023
Topic	CARDIOLOGY

Task	Essential hypertension, as an important non-communicable disease, is the most common type of arterial hypertension, in which there is a persistent increase in blood pressure up to 140/90 mm Hg and which is influenced by exogenous and endogenous risk factors. What factors are endogenous?
Correct answer	Age (over 40 years), sex, hereditary predisposition
B	Obesity
C	Excessive emotional and nervous strain
D	Stress
E	Sensitivity to weather changes
№	2023
Topic	CARDIOLOGY
Task	A 65-year-old man with acute anterior myocardial infarction developed an asphyxia attack. Examination detects diffuse cyanosis. His heart rate is 100/min. His blood pressure is 120/100 mm Hg. Auscultation detects numerous heterogeneous moist crackles in the lungs. What complication has developed in this patient?
Correct answer	Pulmonary edema
B	Pulmonary embolism
C	Ventricular septal rupture
D	Hypertensive crisis
E	Cardiogenic shock
№	2023
Topic	RHEUMATOLOGY
Task	55-year-old woman complains of deformed finger joints and pain in them during movements. Objectively, there are small bony formations on the lateral surfaces of the distal interphalangeal joints. The formations are slightly painful to palpation. What are they called?
Correct answer	Heberden's nodes
B	Bouchard's nodes
C	Tophi

D	Rheumatoid nodules
E	Erythema nodosum
№	2023
Topic	HEMATOLOGY
Task	<p>A 20-year-old woman is being treated for anemia (hemoglobin — 72 g/L). A year and a half ago, she had an involuntary mi-scarriage with a significant blood loss at 16 weeks of pregnancy, after which the woman developed memory deterioration, fatigability, loss of appetite, dry skin, brittle nails, and irregular menstrual cycles. Objectively, the following is observed: blood pressure — 80/55 mm Hg, pulse — 54/min., height — 168 cm, weight — 48 kg, genital hypoplasia. What medicine would be the optimal choice for this patient?</p>
Correct answer	Hydrocortisone
B	Human normal immunoglobulin
C	Infliximab
D	Hydroxychloroquine
E	Methotrexate
№	2023
Topic	GASTROENTEROLOGY
Task	<p>In recent months, a 29-year-old woman developed complaints of pain in her right iliac region, diarrhea with mucus and pus, pain in the hip joints, and periodic increases in body temperature. The abdomen during palpation is soft, with tenderness in the right iliac region. Irrigography shows that the mucosa resembles a "cobblestone pavement", the ileocecal junction is narrowed. What disease can be suspected in this case?</p>
Correct answer	Crohn's disease
B	Tuberculous ileityphlitis
C	Whipple's disease
D	Gluten enteropathy (celiac disease)
E	Pseudomembranous enterocolitis

№	2023
Topic	CARDIOLOGY
Task	A man suddenly developed a sharp retrosternal pain that radiated into the left arm. Objectively, the patient was excited, his skin was pale, the respiration rate was 38/min., the blood pressure was 180/110 mm Hg. Later he lost his consciousness, fell down, the pulse on the major vessels could not be detected, the pupils were evenly dilated. What is the diagnosis in this case?
Correct answer	Clinical death
B	Agonal state
C	Coma
D	Cerebral circulation disorder
E	Heart attack
№	2023
Topic	CARDIOLOGY
Task	A 52-year-old woman came to a doctor for her annual preventive checkup. Her father has a history of cardiovascular disease. Physical examination of the woman shows the following: height — 172 cm, weight — 77 kg, B MI — 26 kg/m^2 , body temperature — 36.8°C , pulse — 81/min., respiratory rate — 16/min., blood pressure — 160/100 mm Hg on both hands. Ophthalmoscopy of the fundus detects narrowing of the retinal vessels. Laboratory values are within the normal range. What should be prescribed in this case to reduce the patient's risk of death caused by cardiovascular diseases?
Correct answer	Enalapril
B	Dipyridamole
C	Nitroglycerin
D	Warfarin
E	Aspirin
№	2023
Topic	ALLERGOLOGY

Task	A 20-year-old woman has been developing rhinitis and conjunctivitis in August- September for the last 8 years. The last year during this period, attacks of bronchial asthma started occurring as well. Skin testing detects hypersensitivity to <i>Ambrosia</i> pollen. The antibodies that cause the exacerbation of this condition belong to the following class of immunoglobulins:
Correct answer	Immunoglobulin E
B	Immunoglobulin G
C	Immunoglobulin D
D	Immunoglobulin A
E	Immunoglobulin M
No	2023
Topic	GASTROENTEROLOGY
Task	An 18-year-old young man came to a doctor with complaints of cramping abdominal pain, frequent liquid stools with mucus and fresh blood. The symptoms have been observed for the last four months, during which the patient lost 1 kg . Physical examination shows soft abdomen, painful on the left along the large intestine; the sigmoid colon is spastic. Complete blood count shows the following: erythrocytes — $3.2 \cdot 10^{12}/\text{L}$, hemoglobin — 92 g/L , leukocytes — $10.6 \cdot 10^9/\text{L}$, ESR — 34 mm/hour . Bacteriological culture of feces shows negative results. Colonoscopy revealed inflammation of the large intestine with the loss of vascular pattern, as well as an area of increased bleeding with clear boundaries. What treatment tactics should be chosen for this patient?
Correct answer	Prescription of prednisolone and mesalamine (mesalazine)
B	Surgical treatment
C	Transfusion of packed red blood cells
D	Repeated collection of a stool sample for bacteriological testing
E	Prescription of metronidazole
No	2023
Topic	CARDIOLOGY

Task	For the last „3, months, a 68-year-old woman has been suffering from pain attacks in the heart that last for J10 minutes. The pain attacks occur in response to the‘sli-ghtest physical exertion. She does not take nitroglycerin because of severe headache. She was repeatedly treated for ischemic heart di-sease and had a myocardial infarction. Her blood pressure periodically rises to 160/80 mm Hg. ECG shows cicatricial changes in the posterior wall of the left ventricle. Auscultati-on reveals a systolic murmur over the aorta. What is the most likely diagnosis in this case?
Correct answer	Aortic aneurysm with aortic dissection
B	Recurrent myocardial infarction
C	Stable exertional angina pectoris, FC IV
D	Unstable angina pectoris
E	Stable exertional angina pectoris, FC II
№	2023
Topic	CARGIOLOGY
Task	A 49-ycar-old man complains of angina pectoris attacks that occur when he walks up to 500 m. He has a many-year-long history of chronic bronchitis. Examination detects a small number of dry diffuse crackles in the lungs, the respiratory rate is 18/min. The borders of the heart are expanded to the left, the heart sounds are muffled, the heart rate=PS=86/min., the blood pressure is 160/100 mm Hg. Complete blood count shows the following: Hb — 160 g/L, leukocytes — $6.4 \cdot 10^9$ /VL, ESR — 7 mm/hour. ECG shows hypertrophy of the left ventricle. What group of drugs is contraindicated in this case, taking into account the concomitant pathology?
Correct answer	Beta blockers
B	Long-acting nitrates
C	Anliplatelet drugs
D	Calcium antagonists
E	Angioprotectors
№	2023

Topic	RHEUMATOLOGY
Task	A 38-year-old patient complains of pain in the area of the metatarsophalangeal joints of toes 1-2 on the right foot. Examination detects bluish-purple skin over the affected joints that is hot to the touch. There are nodular formations covered with thin shiny skin in the area of the auricles. What drug must be prescribed for this patient as a part of the urate-lowering therapy?
Correct answer	Allopurinol
B	Methotrexate
C	Nimesulide
D	Febuxostat
E	Colchicine
№	krok 2017, 2016, 2009
Topic	HEMATOLOGY
Task	A 32-year-old welder complains of weakness and fever. His illness initially presented as tonsillitis one month earlier. On examination: body temperature - 38,9°C , RR-24/min., HR- 100/min., BP- 100/70 mm Hg, hemorrhages on the legs, enlargement of the lymph nodes. Complete blood count: Hb- 70 g/l, RBC- $2,2 \cdot 10^{12}/l$, WBC- $3,0 \cdot 10^9/l$ with 32% of blasts, 1% of eosinophils, 3% of band neutrophils, 36% of segments, 20% of lymphocytes, and 8% of monocytes, ESR- 47 mm/hour. What is the cause of anemia?
Correct answer	Acute leukemia
B	Chronic lympholeukemia
C	Aplastic anemia
D	B12-deficient anemia
E	Chronic hemolytic anemia
№	krok 2017, 2013
Topic	RHEUMATOLOGY

Task	5 weeks after hypothermia a 22-year-old patient developed fever, weakness, muscle pain, inability to move independently. Objectively: tenderness, induration of shoulder and shin muscles, restricted active movements, erythema on the anterior surface of the chest. There is a periorbital edema with heliotropic erythema. Gottron's sign is present. What investigation is required for the diagnosis verification?
Correct answer	Muscle biopsy
B	Aminotransferase activity
C	Pneumoarthrography
D	ASO titer
E	Rheumatoid factor
№	krok 2017
Topic	CARDIOLOGY
Task	A 52-year-old patient, who has been suffering from angina pectoris, for 2 weeks has increasingly frequent pain attacks in the area behind his sternum and his need for nitroglycerine has increased. Objectively: the condition is of moderate severity. The skin is pale. Heart sounds are weakened, rhythmic. Heart rate is 84/min. ECG shows no signs of focal myocardial injury. What is the most likely diagnosis?
Correct answer	Progressive angina pectoris
B	First-time angina pectoris
C	Stable NYHA functional class II angina pectoris
D	Variant angina pectoris
E	Acute cardiac infarction
№	krok 2017, 2016, 2015
Topic	NEPHROLOGY
Task	A 39-year-old man complains of morning headaches, appetite loss, nausea, morning vomiting, periodic nasal hemorrhages. The patient had a case of acute glomerulonephritis at the age of 15. Examination revealed rise of arterial pressure up to 220/130 mm Hg, skin hemorrhages on his arms and legs, pallor of skin and mucous membranes. What biochemical parameter is the most important for making diagnosis in this case?

Correct answer	Blood creatinine
B	Blood bilirubin
C	Blood sodium
D	Uric acid
E	Fibrinogen
№	krok 2017, 2016
Topic	PULMONOLOGY
Task	A 40-year-old patient has acute onset of disease caused by overexposure to cold. Temperature has increased up to 39°C . Foul-smelling sputum is expectorated during coughing. Various moist crackles can be auscultated above the 3rd segment on the right. Blood test: leukocytes - $15,0 \cdot 10^9/l$, stab neutrophils - 12%, ESR- 52 mm/hour. On X-ray: in the 3rd segment on the right there is a focus of shadow 3 cm in diameter, low density, with fuzzy smooth margins and a clearing in its center. What disease is most likely in the given case?
Correct answer	Pneumonia complicated by an abscess
B	Infiltrative tuberculosis
C	Peripheral pulmonary cancer
D	Cystic echinococcosis
E	Pulmonary cyst
№	krok 2017, 2016, 2013
Topic	: ENDOCRINOLOGY
Task	A 48-year-old patient was found to have diffuse enlargement of the thyroid gland, exophthalmia, weight loss of 4 kg in 2 months, sweating. Objectively: HR- 105/min, BP-140/70 mm Hg. Defecation act is normal. What kind of therapy is recommended in this case?
Correct answer	Mercazolil
B	Radioactive iodine
C	Propranolol
D	Lugol's solution

E	Thyroxine
№	krok 2017
Topic	RHEUMATOLOGY
Task	A 26-year-old woman is suspected to suffer from systemic lupus erythematosus due to systemic lesions of skin, vessels, joints, serous tunics, and heart that developed after photosensitization. The following is detected: LE cells, antibodies to native DNA, isolated anti-centromere antibodies, rheumatoid factor is 1:100, Wassermann reaction is positive, circulating immune complex is 120 uni-ts. What immunological indicators are considered to be specific to this disease?
Correct answer	DNA antibodies
B	Rheumatoid factor
C	Anti-centromere antibodies
D	Immunoglobulin A
E	Increased circulating immune complex
№	krok 2017
Topic	HEMATOLOGY
Task	A 65-year-old man was diagnosed with B12-deficient anemia and the treatment was prescribed. A week later control blood test was performed. What would be the early indicator of the therapy effectiveness?
Correct answer	Increased number of reticulocytes
B	Increased hemoglobin level
C	Megaloblastic hematopoiesis
D	Normoblastic hematopoiesis
E	Increased erythrocyte number
№	krok 2017
Topic	CARDIOLOGY
Task	A 65-year-old woman on abdominal palpation presents with a tumor in the umbilical region and above it; the tumor is 13x8 cm in size, moderately painful, non-mobile, pulsing. On auscultation systolic murmur can be observed. What is the most likely diagnosis?

Correct answer	Abdominal aneurysm
B	Gastric tumor
C	Arteriovenous aneurysm
D	Tricuspid insufficiency
E	Bicuspid insufficiency
№	krok 2017
Topic	CARDIOLOGY
Task	A 42-year-old woman complains of severe pulsing headache in the frontoparietal area, vertigo, palpitations. She has been suffering from hypertension for 3 years. Significant increase of BP occurs 2-3 times per month and lasts for 3-8 hours. The left ventricle is enlarged, heart sounds are clear, heart rate - 105/min., BP- 225/115 mm Hg. ECG: signs of left ventricular hypertrophy. What drug would be the most effective for termination of cerebral crisis attack?
Correct answer	Labetalol
B	Hydrochlorothiazide (Hypothiazide)
C	Captopril
D	Losartan
E	Clonidine (Clophelin)
№	krok 2017, 2016, 2015
Topic	GASTROENTEROLOGY
Task	A 45-year-old patient complains of pain in the epigastric region, left subcostal area, abdominal distension, diarrhea, loss of weight. He has been suffering from this condition for 5 years. Objectively: the tongue is moist with white coating near the root; deep palpation of abdomen reveals slight pain in the epigastric region and Mayo-Robson's point. Liver is painless and protrudes by 1 cm from the costal arch. Spleen cannot be palpated. What disease can be primarily suspected?
Correct answer	Chronic pancreatitis
B	Atrophic gastritis
C	Peptic stomach ulcer

D	Chronic cholecystitis
E	Chronic enteritis
№	krok 2017
Topic	RHEUMATOLOGY
Task	For three years a 31-year-old woman has been complaining of pain and swelling of her radiocarpal and metacarpophalangeal articulations, their reduced mobility in the morning, which persisted up to 1,5 hours. Two weeks ago she developed pain, swelling, and reddening of her knee joints, her body temperature increased up to 37,5oC . The treatment was belated. Examination of the internal organs revealed no pathologic alterations. Diagnosis of rheumatoid arthritis was made. What alterations are the most likely to be visible on the arthrogram?
Correct answer	Joint space narrowing, usuration
B	Joint space narrowing, subchondral osteosclerosis
C	Cysts in the subchondral bone
D	Numerous marginal osteophytes
E	Epiphyseal osteolysis
№	krok 2017, 2016, 2015, 2014
Topic	HEMATOLOGY
Task	A 58-year-old woman complains of spontaneous bruises, weakness, bleeding gums, dizziness. Objectively: the mucous membranes and skin are pale with numerous hemorrhages of various time of origin. Lymph nodes are not enlarged. Ps- 100/min, BP-110/70 mm Hg. There are no alterations of internal organs. Blood test results: RBC- $3,0 \cdot 10^{12}/l$, Hb- 92 g/l, color index - 0,9, anisocytosis, poikilocytosis, WBC- $10 \cdot 10^9/l$, eosinophils - 2%, stab neutrophils - 12%, segmented neutrophils - 68%, lymphocytes 11%, monocytes - 7%, ESR- 12 mm/h. What laboratory test should be performed additionally to make the diagnosis?
Correct answer	Platelets
B	Reticulocytes
C	Clotting time

D	Osmotic resistance of erythrocytes
E	Fibrinogen
№	krok 2017
Topic	RHEUMATOLOGY
Task	A 10-year-old boy with symptoms of arthritis and myocarditis was delivered into a hospital. Based on clinical examination the preliminary diagnosis of juvenile rheumatoid arthritis was made. What symptom is the most contributive for the diagnostics of this di-sease?
Correct answer	Reduced mobility of the joints in the morning
B	Regional hyperemia of the joints
C	Affection of the large joints
D	Enlarged heart
E	Increased heart rate
№	krok 2017
Topic	RHEUMATOLOGY
Task	A 28-year-old woman complains of skin hemorrhages after minor traumas and spontaneous appearance of hemorrhages on the front of her torso and extremities. On examination: the skin is variegated (old and new hemorrhages), bleeding gums. Blood platelets - $20 \cdot 10^9/l$; in the bone marrow there is increased number of megakaryocytes and no platelet production. Treatment with steroid hormones was effective. What disease is it?
Correct answer	Idiopathic thrombocytopenic purpura
B	Hemophilia
C	Rendu-Osler-Weber disease (Hereditary hemorrhagic telangiectasia)
D	Disseminated intravascular coagulation
E	Acute vascular purpura
№	krok 2017
Topic	NEPHROLOGY

Task	A 46-year-old man notes swollen legs, weakness, sensation of fullness and heaviness in the right subcostal area; it is the first occurrence of these signs in the patient. The patient has 20-year-long history of rheumatoid arthritis. The liver and spleen are enlarged and dense. Blood creatinine - 0,23 mmol/l, proteinemia - 68 g/l, cholesterol - 4,2 mmol/l, urine specific gravity - 1012, proteinuria - 3,3 g/l, isolated wax-like cylinders, leached erythrocytes in the vision field, leukocytes - 5-6 in the vision field. What is the most likely complication?
Correct answer	Renal amyloidosis
B	Chronic glomerulonephritis
C	Acute glomerulonephritis
D	Heart failure
E	Chronic pyelonephritis
№	krok 2017, 2016
Topic	PULMONOLOGY
Task	A 23-year-old man had taken 1 g of aspirin to treat acute respiratory infection. After that he developed an asthmatic fit with labored expiration that was arrested by introduction of aminophylline. The patient has no medical history of allergies. The patient has undergone two surgeries for nasal polyposis in the past. What is the most likely diagnosis?
Correct answer	Aspirin-induced asthma
B	A bronchial asthma
C	Infectious allergic bronchial asthma
D	Exercise-induced asthma
E	Symptomatic bronchospasm
№	krok 2017
Topic	CARDIOLOGY

Task	A 58-year-old patient complains of pain in the lower left extremity, which aggravates during walking, sensation of cold and numbness in the both feet. The patient has been suffering from this condition for 6 years. Objectively: the skin is pale and dry, with hyperkeratosis. On the left shin hair is scarce, "furrow" symptom of inflamed ingui-nal lymph nodes is positive. Pulse cannot be detected over the pedal and popliteal arteri-es and is weakened over the femoral artery. In the right limb popliteal artery pulsation is retained. What is the most likely diagnosis?
Correct answer	Arteriosclerosis obliterans of the lower extremities
B	Obliterating endarteritis
C	Femoral artery thrombosis
D	Raynaud's disease
E	Buerger's disease (thromboangiitis obli-terans)
№	krok 2017
Topic	HEMATOLOGY
Task	A 52-year-old woman presents with affected mucosa in the mouth angles where fissures, erosions, and ulcers develop; verti-cal fissures appear on the lips during their closing (cheilosis); there are tongue alterati-ons (glossitis), angular stomatitis, seborrheic dermatitis around the mouth and wings of the nose, and pericorneal injection. The listed symptoms are characteristic of:
Correct answer	B2-hypovitaminosis
B	B1-hypovitaminosis
C	C -hypovitaminosis
D	P P -hypovitaminosis
E	A-hypovitaminosis
№	krok 2017
Topic	CARDIOLOGY

Task	A 44-year-old patient with postinfarction cardiosclerosis presents with frequent heart rate disorders and lower extremity edema. Objectively: Ps- 95/min., irregular, 10-12 extrasystoles per minute. BP- 135/90 mm Hg. The 1st heart sound at the apex is weakened. Pulmonary respiration is rough. The liver is enlarged +2 cm. ECG: irregular sinus rhythm, heart rate - 95/min, frequent poly ventricular extrasystoles. What anti-arrhythmic drug is advisable in this case for treatment and prevention of extrasystole?
Correct answer	Amiodarone
B	Lidocaine
C	Mexiletine
D	Quinidine
E	Novocainamide (Procainamide)
№	krok 2017, 2013
Topic	HEMATOLOGY
Task	A 60 year-old woman has been suffering from weakness, dizziness, and fatigue over the last year. Recently she has also developed dyspnea, paresthesia. Objectively: the skin and mucous membranes are pale and slightly icteric. The tongue is smooth due to the loss of lingual papillae. Liver and spleen are located at the costal margin. Blood count: Hb- 70 g/l, RBC- $1,7 \cdot 10^{12} /l$, color index - 1,2, macrocytes. Administer the patient a pathogenetically justified drug:
Correct answer	Vitamin B12
B	Vitamin B6
C	Ascorbic acid
D	Iron preparations
E	Vitamin B1
№	krok 2017
Topic	ENDOCRINOLOGY

Task	A 23-year-old woman presents with diabetes mellitus type 1. She complains of weakness, headache, nausea, and vomiting. Objectively: temperature is 37,6oC , heart rate is 98/min., BP is 95/65 mm Hg, respiration rate is 32/min., loud. Smell of acetone is detected, heart sounds are muffled, pulse is rhythmic. The stomach is sensitive in the epigastrium. Costovertebral angle tenderness (Murphy's punch sign) is present. Blood glucose is 28,5 mmol/l; blood leukocytes - 16, 5 · 10 ⁹ /l. In uri-ne: acetone ++, leukocytes - 25-40 in the vision field. Blood pH is 7,1. What correction method would be the most advisable?
Correct answer	Infusion of normal saline + insulinotherapy in small portions
B	Infusion of 5% glucose + insulinotherapy in large portions
C	Infusion of 2,5% sodium bicarbonate + insulinotherapy
D	Intravenous administration of antibiotics + insulinotherapy
E	Infusion of dextran solutions + insuli-notherapy
№	krok 2017, 2016
Topic	GASTROENTEROLOGY
Task	A 57-year-old woman complains of a sensation of esophageal compression, palpitations, difficult breathing when eating solid food, occasional vomiting with a full mouth, "wet pillow" sign at night for the last 6 months. Objectively: body tempearture - 39 oC , height - 168 cm, weight - 72 kg, Ps-76/min, BP- 120/80 mm Hg. X-ray study revealed considerable dilation of esophagus and its constriction in the cardial part. What pathology is the most likely to have caused dysphagia in this patient?
Correct answer	Achalasia cardiae
B	Primary esophageal spasm
C	Hiatal hernia
D	Esophageal carcinoma
E	Reflux esophagitis
№	krok 2017, 2016, 2014, 2013
Topic	CARDIOLOGY

Task	4 weeks after myocardial infarction a 56-year-old patient developed acute heart pain, marked dyspnea. Objectively: the patient's condition is extremely grave, there is marked cyanosis of face, swelling and throbbing of neck veins, peripheral pulse is absent, the carotid artery pulse is rhythmic, 130/min., BP is 60/20 mm Hg. Auscultation of the heart reveals extremely muffled sounds, percussion reveals heart border extension in both directions. What is the optimal treatment tactics for this patient?
Correct answer	Pericardiocentesis and immediate thoracotomy
B	Oxygen inhalation
C	Puncture of the pleural cavity on the left
D	Conservative treatment, infusion of adrenomimetics
E	Pleural cavity drainage
№	krok 2017
Topic	GASTROENTEROLOGY
Task	A patient with chronic pancreatitis complains of diarrhea occurring up to 5 times per day (no blood traces), loss of body weight, abdominal distention, dryness of skin, loss of hair, thirst, bleeding gums, convulsions. Complete blood count: leukocytes - $5,8 \cdot 10^9/l$; Hb- 86 g/l; ESR- 15 mm/g; Blood protein test: protein - 48 g/l; albumins - 28 g/l. What indicators of coprological analysis would accompany this syndrome?
Correct answer	Steatorrhea, creatorrhea
B	Large amount of mucus, amylopoorrhea
C	Large amount of starch grains and cellulose
D	Gas bubbles, acid reaction
E	Large numbers of iodophilous microbes
№	krok 2017
Topic	GASTROENTEROLOGY

Task	A 35-year-old patient complains of heartburn, gaseous and sour eructation, burning constricting pain behind the sternum and along the esophagus, developing when bowing the torso to the front. No previous examination; the patient takes almagel at his own discretion, after which he notes improvement of his general state. Make the provisional diagnosis:
Correct answer	Gastroesophageal reflux disease
B	Functional dyspepsia
C	Cardiospasm
D	Ulcer disease of the stomach
E	Ulcer disease of the duodenum
№	krok 2017
Topic	GASTROENTEROLOGY
Task	A 38-year-old patient has been delivered by an ambulance to a surgical department with complaints of general weakness, indisposition, black stool. On examination the patient is pale, there are dotted hemorrhages on the skin of his torso and extremities. On digital investigation there are black feces on the glove. Blood test: Hb- 108 g/l, thrombocytopenia. Anamnesis states that similar condition was observed 1 year ago. Make the diagnosis:
Correct answer	Thrombocytopenic purpura
B	Hemophilia
C	Ulcerative bleeding
D	Rectal tumor
E	Nonspecific ulcerative colitis
№	krok 2017
Topic	GASTROENTEROLOGY

Task	A 35-year-old woman has gained 20 kg weight within a year with the normal diet. She complains of chills, sleepiness, shortness of breath. The patient's mother and sister are corpulent. Objectively: height - 160 cm, weight - 92 kg, BMI- 35,9. Obesity is uniform, there are no striae. The face is amimic. The skin is dry. The tongue is thickened. Heart sounds are muffled. HR- 56/min, BP- 140/100 mm Hg. The patient has been suffering from amenorrhea for 5 months, has constipations. TSH- 28 mIU/l (norm is 0,32-5). Craniogram shows no pathology. What is the etiology of obesity?
Correct answer	Hypothyroid
B	Hypo-ovarian
C	Hypothalamic-pituitary
D	Alimentary and constitutive
E	Hypercorticotid
№	krok 2017
Topic	RHEUMATOLOGY
Task	A 48-year-old man complains of fatigue, excessive sweating, severe skin itching, undulant fever, enlarged cervical and supraclavicular lymph nodes. Objectively: paleness of skin and mucosa, cervical lymph nodes are mobile, dense, elastic, walnut-sized, painless, not attached to the skin. Complete blood count: erythrocytes - $3,0 \cdot 10^{12}/l$, Hb- 100 g/l, leukocytes - $14 \cdot 10^9/l$, eosinophils - 6%, basophils - 3%, band neutrophils - 11%, segmented neutrophils - 69%, lymphocytes - 7, monocytes - 4%, platelets - $280 \cdot 10^9/l$, ESR-37 mm/hour. What method should be applied to verify the diagnosis?
Correct answer	Lymph node biopsy
B	Sternal puncture
C	Muscle biopsy
D	Chest X-ray
E	Lumbar puncture
№	krok 2017
Topic	CARDIOLOGY

Task	A 72-year-old man complains of lower extremity edema, sensation of heaviness in the right subcostal area, dyspnea of rest. For over 25 years he has been suffering from COPD Objectively: orthopnea, jugular venous distention, diffuse cyanosis, acrocyanosis. Barrel chest is observed, on percussion there is vesiculotympanic (bandbox) resonance, sharply weakened vesicular respiration on both sides, moist crepitant crackles in the lower segments of the lungs. Heart sounds are weakened, the II heart sound is accentuated over the pulmonary artery. The liver is +3 cm. What complicated the clinical course of COPD in this patient?
Correct answer	Chronic pulmonary heart
B	Pulmonary embolism
C	Acute left ventricular failure
D	Diffuse pneumosclerosis
E	Community-acquired pneumonia
№	krok 2017
Topic	CARDIOLOGY
Task	Anamnesis of a 30-year-old patient includes closed thoracic injury. Lately the patient has been suffering from increasing dyspnea, sensation of heaviness in the right subcostal area, and heart rate disturbances. Objectively: acrocyanosis, bulging cervical veins, ascites, edema of the lower extremities. Heart auscultation reveals muffled heart sounds, additional III heart sound is detected. Provisional diagnosis of constrictive pericarditis was made. What diagnostic technique would NOT confirm the diagnosis?
Correct answer	US of abdomen
B	Computer tomography
C	Echocardiography
D	Magnetic resonance imaging
E	Chest X-ray
№	krok 2017
Topic	ENDOCRINOLOGY

Task	A 72-year-old woman suffers from di-abetes mellitus type 2, concomitant diseases are stage 2 hypertension and stage 2B heart failure. She takes metformin. Hypertensive crisis had occurred the day before, after which the patient developed extreme weakness, myalgias, thirst, dry mouth, polyuria. BP is 140/95 mm Hg, heart rate is 98/min., no edemas or smell of acetone detected. What measures should be taken to prevent development of comatose state in the patient?
Correct answer	Stop metformin, prescribe short-acting insulin
B	Double the dosage of metformin
C	Apply hypotonic solution of sodium chloride
D	Additionally prescribe long-acting insulin
E	Prescribe glibenclamide
№	krok 2017, 2015
Topic	GASTROENTEROLOGY
Task	A 53-year-old woman complains of weight loss up to 10 kg within the last 2 years, liquid foul-smelling stool two times a day that poorly washes off the toilet, periodic bouts of nausea, girdle pain in the upper abdomen. Objectively: pain in Gubergrits zone (on the right from navel) and at Mayo-Robson's point. Biochemical blood analysis: glucose - 3,2 mmol/l, bilirubin - 16,5 mcmmol/l, crude protein - 56,4 g/l. Urine diastase/amylase - 426 g/h/l. D-xylose test (oral administration of 25 g of d-xylose) after 5 hours reveals 3 g of xylose in urine. The most likely diagnosis is:
Correct answer	Pancreatitis. Malabsorption syndrome
B	Pseudomembranous colitis
C	Nonspecific ulcerative colitis
D	Irritable bowel syndrome
E	Chronic gastritis
№	krok 2017
Topic	RHEUMATOLOGY

Task	A 37-year-old patient complains of pain in the spinal column, reduced mobility. The condition persists for 7 years. "Sway back" is observed, there is no movement in all spinal regions. On X-ray: "bamboo spine" is detected. What is the most likely diagnosis?
Correct answer	Ankylosing spondylitis
B	Osteochondrosis
C	Spondylitis deformans
D	Tuberculous spondylitis
E	Spondylolisthesis
№	krok 2017, 2016, 2015
Topic	RHEUMATOLOGY
Task	A 25-year-old patient is not married and has sexual relations with several partners. During the last 3 months he noticed a small amount of mucoserous discharge from the urethra. Subjectively: periodical itching or burning pain in the urethra. Two months ago pain in the knee joint developed. Possibility of trauma or exposure to cold is denied by the patient. During the last week eye discomfort is noted - lacrimation and itching. What provisional diagnosis can be made?
Correct answer	Reactive arthritis
B	Rheumatoid arthritis
C	Seasonal pollinosis
D	Bacterial nonspecific urethral conjunctivitis
E	Upper respiratory tract infection (URTI) that affects conjunctiva and joints
№	krok 2017, 2015
Topic	ENDOCRINOLOGY

Task	A woman complains of weight gain, chills, edema, xeroderma, somnolence, difficulties with focusing. Objectively: height is 165 cm; weight is 90 kg; body proportions are of female type, to- 35,8oC , heart rate - 58/min, BP- 105/60 mm Hg. Heart sounds are weakened, bradycardia is observed. Other internal organs have no alterations. Thyroid gland cannot be palpated. Milk secretion from mammary glands is observed. Hormone test revealed increased levels of thyroid-stimulating hormone (TSH) and prolactin, and decreased level of thyroxine (4). What is the cause of obesity?
Correct answer	Primary hypothyroidism
B	Secondary hypothyroidism
C	Prolactinoma
D	Hypopituitarism
E	Adiposogenital dystrophy
№	krok 2017
Topic	GASTROENTEROLOGY
Task	A 22-year-old man suddenly developed extreme weakness, nausea, vomiting with traces of blood. The patient is known to suffer from peptiv ulcer disease of duodenum and hemophilia Objectively: heart rate - 102/min., BP- 100/60 mm Hg. Complete blood count: erythrocytes - $3, 2 \cdot 10^{12}/l$, Hb- 98 g/l, color index - 0,92, leukocytes - $7, 4 \cdot 10^9/l$, platelets - $240 \cdot 10^9/l$, ESR- 11 mm/hour. What measure would most effectively decrease hemorrhaging in this case?
Correct answer	Cryoprecipitate
B	Aminocapronic acid
C	Native plasma
D	Direct transfusion of donor blood
E	Platelet concentrate transfusion
№	krok 2017
Topic	PULMONOLOGY

Task	A 52-year-old patient suffers from marked dyspnea during physical exertion, non-productive cough. The patient's condition has been persisting for 8 months. The patient has been a smoker for 30 years. In the lungs there are cellophane-type crackles auscultated on both sides. Respiration rate is 26/min., oxygen saturation of blood is 92%. On spirometry: moderate restrictive-type disturbance of external respiration. What is the most likely diagnosis?
Correct answer	Idiopathic fibrosing alveolitis
B	Chronic obstructive pulmonary disease (COPD)
C	Chronic bronchitis
D	Community-acquired pneumonia
E	Sarcoidosis
№	krok 2017, 2013
Topic	CARDIOLOGY
Task	A 19-year-old patient complains of dyspnea on exertion. He often has bronchitis and pneumonia. Since childhood the patient presents with cardiac murmur. Auscultation revealed splitting of the II sound above the pulmonary artery, systolic murmur in the 3rd intercostal space at the left sternal border. ECG detected right bundle branch block. What is the provisional diagnosis?
Correct answer	Atrial septal defect
B	Open ductus arteriosus
C	Aortarctia
D	Aortic stenosis
E	Mitral insufficiency
№	krok 2017, 2016, 2013
Topic	HEMATOLOGY

Task	A 25-year-old patient has been admitted to the hospital with the following problems: weakness, sweating, itching, weight loss, enlarged submandibular, cervical, axillary, inguinal lymph nodes. Objectively: hepatomegaly. Lymph node biopsy revealed giant Berezovsky-Reed-Sternberg cells, polymorphocellular granuloma composed of lymphocytes, reticular cells, neutrophils, eosinophils, fibrous tissue, and plasma cells. What is the most likely diagnosis?
Correct answer	Lymphogranulomatosis (Hodgkin's lymphoma)
B	Lymph node tuberculosis
C	Lymphoreticulosarcoma
D	Cancer metastases to the lymph nodes
E	Macofollicular reticulosis
№	krok 2017, 2015
Topic	GASTROENTEROLOGY
Task	A 60-year-old man has a diet consisting of unvaried food staples: mostly cereals, potato, pasta; few vegetables and little fats (especially animal fats). During medical examination he complains of deterioration of his twilight vision. This condition can be caused by lack of:
Correct answer	Retinol
B	Amino acids
C	Fats
D	Calcium
E	Carbohydrates
№	krok 2017
Topic	ENDOCRINOLOGY
Task	A 32-year-old woman complains of body weight loss despite her increased appetite, nervousness, and tremor of the extremities. Objectively: the skin is moist; the thyroid gland is diffusely enlarged, painless, soft, and mobile. Blood test: increased level of T3, T4, and thyroid-stimulating hormone (THS). What is the most likely diagnosis?
Correct answer	Diffuse toxic goiter

B	Thyroid carcinoma
C	Autoimmune (Hashimoto's) thyroiditis
D	Thyroid adenoma
E	Diffuse nontoxic goiter
№	krok 2017
Topic	NEPHROLOGY
Task	A 57-year-old patient complains of dyspnea at rest. The patient presents with orthopnea, acrocyanosis, bulging cervical veins. On percussion: dull sound over the lower lung segments; on auscultation: no respiratory murmurs. Heart rate is 92/min. Right-sided cardiac dilatation is observed. The liver is enlarged by 7 cm. Shins are swollen. Pleural effusion is suspected. What indicator would confirm the presence of transudate in this case?
Correct answer	Total protein content in the pleural fluid below 25 g/l
B	Presence of atypical cells
C	Total protein content in the pleural fluid above 30 g/l
D	Specific gravity exceeding 1015
E	Positive Rivalta's test
№	krok 2017
Topic	HEMATOLOGY
Task	During routine medical examination a 35-year-old woman presents with enlarged cervical and mediastinal lymph nodes. Her overall health is satisfactory. ESR is 30 mm/hour. Cervical node biopsy was performed. In the specimen there are granulomas composed of epithelial and giant cells, no caseous necrosis detected. What is the most likely diagnosis?
Correct answer	Sarcoidosis
B	Lymphogranulomatosis
C	Infectious mononucleosis
D	Nonspecific lymphadenitis
E	Lymph node tuberculosis

№	krok 2017
Topic	GASTROENTEROLOGY
Task	A woman complains of frequent, liquid stool (up to 9-10 times per day) with mucus and blood admixtures, dull pain in the hypogastrium, weight loss of 4 kg within the last year. Objectively: malnutrition, dry skin, low turgor, aphthous stomatitis. The stomach is soft, the sigmoid colon is spastic and painful on palpation. Occult blood test is positive. Fi-brocolonoscopy: edema, hyperemia, mucosal granulation, pseudopolyps, small ulcers with irregular edges. Make the diagnosis:
Correct answer	Nonspecific ulcerative colitis
B	Chronic enterocolitis
C	Colon cancer
D	Irritable bowel syndrome
E	Crohn's disease (regional enteritis)
№	krok 2017
Topic	ENDOCRINOLOGY
Task	A 48-year-old woman has been hospitalized due to development of tachysystolic atrial fibrillation. She has lost 5 kg of body weight within 2 months. On palpation there is a node in the left lobe of the thyroid gland. What pathology resulted in the development of this condition?
Correct answer	Toxic nodular goiter
B	Atherosclerotic cardiosclerosis
C	Chronic thyroiditis
D	Nontoxic nodular goiter
E	Autoimmune thyroiditis
№	krok 2017
Topic	PULMONOLOGY

Task	A 19-year-old young man complains of cough with expectoration of purulent sputum in amount of 100 ml per day, hemoptysis, dyspnea, increased body temperature up to 37,8oC , general weakness, weight loss. The patient's condition lasts for 4 years. Exacerbations occur 2-3 times a year. The patient presents with malnutrition, pale skin, cyanosis of the lips, drumstick (clubbed) fingers. Tympanic percussion sound in the lungs, weakened respiration, various numerous moist crackles in the lower pulmonary segments on the left can be observed. In blood: erythrocytes - $3,2 \cdot 10^{12}/l$, leukocytes - $8,4 \cdot 10^9/l$, ESR- 56 mm/hour. On X-ray: lung fields are emphysematous, the left pulmonary root is deformed and dilated. What is the most likely diagnosis?
Correct answer	Multiple bronchiectasis of the left lung
B	Chronic left-sided pneumonia
C	Chronic abscess of the left lung
D	Left-sided pulmonary cystic dysplasia
E	Suppuration of the cyst in the left lung
№	krok 2016
Topic	HEMATOLOGY
Task	A woman complains of muscle weakness and general fatigue, dyspnea, vertigo, brittleness of her hair and nails, an urge to eat chalk. Anamnesis states uterine fibroid. Common blood analysis: erythrocytes - $2,8 T/l$, Hb- 80 g/l, color index - 0,78, anisocytosis, poikilocythemia, serum iron - 10 mcmol/l. What diagnosis is most likely?
Correct answer	Iron-deficiency anemia
B	B12-deficient anemia
C	Autoimmune hemolytic anemia
D	Aplastic anemia
E	Hypoplastic anemia
№	krok 2016
Topic	HEMATOLOGY

Task	A 24-year-old patient visited a doctor complaining of enlargement of his submaxillary lymph nodes. Objectively: submaxillary, axillary and inguinal lymph nodes are enlarged. Chest X-ray shows: enlarged lymph nodes of mediastinum. Blood test: erythrocytes - $3,4 \cdot 10^{12}/l$, Hb- 100 g/l, blood colour index - 0,88, platelets - $190 \cdot 10^9/l$, leucocytes - $7,5 \cdot 10^9 /l$, eosinophiles - 8%, band neutrophiles - 2%, segmented neutrophiles - 67%, lymphocytes - 23%, ESR- 22 mm/hour. What test must be prescribed to verify the cause of lymphadenopathy?
Correct answer	Open biopsy of lymph nodes
B	Ultrasonography of abdominal cavity
C	Mediastinum tomography
D	Puncture biopsy of lymph nodes
E	Sternal puncture
№	krok 2016, 2010
Topic	CARDIOLOGY
Task	A 32 year old patient complains of cardiac irregularities, dizziness, dyspnea at physical exertion. He has never suffered from such condition before. Objectively: Ps- 74/min., rhythmic. BP- 130/80 mm Hg. Auscultation revealed systolic murmur above aorta, the first heart sound was normal. ECG showed hypertrophy of the left ventricle, signs of repolarization disturbance in the I, V5 and V6 leads. Echocardiogram revealed that interventricular septum was 2 cm. What is the most probable diagnosis?
Correct answer	Hypertrophic cardiomyopathy
B	Aortic stenosis
C	Essential hypertension
D	Myocardium infarction
E	Coarctation of aorta
№	krok 2016
Topic	GASTROENTEROLOGY

Task	A 56-year-old patient complains of pain in the epigastrium after eating, eructation, loss of appetite, slight loss of weight, fatigability. The patient smokes; no excessive alcohol consumption. Objectively: pale mucosa, BP-110/70 mm Hg. The tongue is "lacquered". The abdomen is soft, sensitive in the epigastric area. Blood test: erythrocytes - 3,0 T/l, Hb- 110 g/l, color index - 1,1; macrocytosis; leukocytes - 5,5 g/l, ESR- 13 mm/hour. On fibrogastroduodenoscopy: atrophy of fundic mucosa. What pathogenesis does this disorder have?
Correct answer	Producing antibodies to parietal cells
B	H.pylori persistence
C	Alimentary factor
D	Chemical factor
E	Gastropathic effect
№	krok 2016
Topic	PULMONOLOGY
Task	A woman has developed sudden thoracic pain on the right with expectoration of pink sputum and body temperature rise up to 37, 7oC on the 4th day after the surgery for cystoma of the right ovary. On lung examination: dullness of the lung sound on the lower right is observed. Isolated moist crackles can be auscultated in the same area. What complication is the most likely?
Correct answer	Pulmonary infarction
B	Pneumonia
C	Pulmonary abscess
D	Exudative pleurisy
E	Pneumothorax
№	krok 2016
Topic	CARDIOLOGY

Task	A 58-year-old patient was delivered to an admission room with complaints of pain in the thorax on the left. On clinical examination: aside from tachycardia (102/min.) no other changes. On ECG: pathologic wave Q in I, aVL, QS in V1, V2, V3 leads and 'domed' ST elevation with negative T. What diagnosis is most likely?
Correct answer	Acute left ventricular anterior myocardial infarction
B	Variant angina pectoris
C	Aortic dissection
D	Acute left ventricular posterior myocardial infarction
E	Exudative pericarditis
№	krok 2016
Topic	GASTROENTEROLOGY
Task	A 48-year-old man complains of constant pain in the upper abdomen, predominantly on the left, which aggravates after eating, diarrhea, loss of weight. The patient has alcohol use disorder. Two years ago he had a case of acute pancreatitis. Blood amylase is 4 g/hour·l. Feces analysis: steatorrhea, creatorrhea. Blood sugar is 6,0 mmol/l. What treatment should be prescribed?
Correct answer	Panzinorm forte (Pancreatin)
B	Insulin
C	Gastrozepin (Pirenzepine)
D	Contrykal (Aprotinin)
E	No-Spa (Drotaverine)
№	krok 2016
Topic	PULMONOLOGY
Task	A 46-year-old patient with temporarily undetermined diagnosis was prescribed pleurocentesis based on the results of the X-ray. The puncture yielded 1000 ml of a liquid with the following properties: clear, specific gravity - 1,010, protein content - 1%, Rivalta's test is negative, erythrocytes - 2-3 in the field of vision. What disorder are these pathologic changes characteristic of?
Correct answer	Cardiac failure

B	Pleuropneumonia
C	Pleural mesothelioma
D	Pulmonary tuberculosis
E	Pulmonary cancer
№	krok 2016, 2011, 2010
Topic	CARDIOLOGY
Task	A 56-year-old patient with diffuse toxic goiter has ciliary arrhythmia, heart rate is 110-120/min., arterial hypertension, BP is 165/90 mm Hg. What drug besides Mercazolil (Thi-amazole) should be prescribed in this case?
Correct answer	Propranolol
B	Radioactive iodine
C	Novocainamide (procainamide)
D	Verapamil
E	Corinfar
№	krok 2016
Topic	ENDOCRINOLOGY
Task	A 54-year-old patient complains of weakness, weight loss despite the unchanged appetite, frequent urination, skin itch for six months. Some time ago the patient underwent treatment for furunculosis. She has not been examined recently. Objectively: malnutrition, dry skin with scratch marks. Small lymph nodes can be palpated in the axillary regions. Changes in the internal organs are absenr. What test must be performed in the first place?
Correct answer	Fasting blood sugar
B	Complete blood count
C	Endoscopy of stomach
D	Lymph node biopsy
E	Blood sterility testing
№	krok 2016

Topic	CARDIOLOGY
Task	A 67-year-old man complains of dyspnea on exertion, attacks of retrosternal pain, di-zziness. He has no history of rheumatism. Objectively: pale skin, acrocyanosis. There are crackles in the lower lungs. There is systolic thrill in the II intercostal space on the ri-ght, coarse systolic murmur conducted to the vessels of neck. BP- 130/90 mm Hg, heart rate - 90/min., regular rhythm. The liver extends 5 cm from under the edge of costal arch, shin edemas are present. Specify the suspected valvular defect:
Correct answer	Aortic stenosis
B	Pulmonary artery stenosis
C	Mitral insufficiency
D	Ventricular septal defect
E	Tricuspid regurgitation
№	krok 2016, 2015, 2013, 2012
Topic	CARDIOLOGY
Task	A 24-year-old female teacher complains of dizziness and heart pain irradiating to the left nipple. Pain is not associated with physical activity and cannot be relieved by nitroglycerin, it abates after taking Valocordin and lasts an hour or more. The patient has a nearly 2-year history of this disease. Objectively: Ps- 76/min., BP-110/70 mm Hg. Heart borders are normal, heart sounds are clear. The ECG shows respi-ratory arrhythmia. Radiograph of the cervi-cothoracic spine reveals no pathology. Lungs, abdomen are unremarkable. What changes in blood formula can be expected?
Correct answer	No changes
B	Leukocytosis
C	Thrombocytopenia
D	Leukemic hiatus
E	Increased ESR
№	krok 2016
Topic	GASTROENTEROLOGY

Task	A 51-year-old female patient complains of frequent defecation and liquid blood-streaked stools with mucus admixtures, diffuse pain in the inferolateral abdomen, 6 kg weight loss within the previous month. Objectively: body temperature - 37, 4oC , malnutrition, skin is pale and dry. Abdomen is soft, sigmoid is painful and spasmodic, makes a rumbling sound. Liver is dense, painful, extends 3 cm below the costal margin. What is the most likely di-agnosis?
Correct answer	Non-specific ulcerative colitis
B	Bacillary dysentery
C	Sprue
D	Intestinal enzymopathy
E	Helminthic invasion
№	krok 2016
Topic	GASTROENTEROLOGY
Task	A 49-year-old patient complains of swallowing disorder that intensifies during eating solid food, hiccups, hoarse voice, nausea, regurgitation, significant weight loss (15 kg within 2,5 months). Objectively: body weight is reduced; the skin is pale and dry; vesicular respiration; heart sounds are sufficiently sonorous; heart rate is rhythmic. The abdomen is soft, no pain on palpation. The liver is not enlarged. What investigation is most necessary for making the diagnosis in this case?
Correct answer	Esophagoduodenoscopy with biopsy
B	Clinical blood analysis
C	X-ray of the gastrointestinal tract
D	X-ray in the Trendelenburg position
E	Investigation of gastric secretion
№	krok 2016
Topic	HEMATOLOGY

Task	A 27-year-old woman complains of bleeding gums, nasal hemorrhages, multiple hematomas on the skin of her limbs and on the front of her torso, extreme general fatigue. Blood test: Hb- 64 g/l, erythrocytes - $2,5 \cdot 10^{12}/l$, reticulocytes - 16%, platelets - $30 \cdot 10^9/l$, ESR- 22 mm/hour. What approach would be most efficient for treatment of this pathology?
Correct answer	Splenectomy
B	Dicynone (Etamsylate)
C	Platelet concentrate transfusion
D	Cytostatics
E	Group B vitamins
№	krok 2016, 2015
Topic	ENDOCRINOLOGY
Task	A 24-year-old patient complains of gaining body mass and increased appetite. Objectively: built of hypersthenic type, body mass index is 33,2 kg/m ² , waist circumference is 100 cm. Waist to hips circumference ratio is 0,95. What is the provisional diagnosis?
Correct answer	Alimentary constitutive obesity, I stage, android type
B	Itsenko-Cushing hypothalamic obesity, II stage, gynoid type
C	Alimentary constitutive obesity, III stage, gynoid type
D	Alimentary constitutive obesity, II stage, android type
E	Itsenko-Cushing hypothalamic obesity, I stage, android type
№	krok 2016, 2009
Topic	RHEUMATOLOGY
Task	A 36 year old female patient complains of general weakness, edemas of her face and hands, rapid fatigability during walking, difficult digestion, cardiac irregularities. These symptoms developed 11 days after holiday at the seaside. Objectively: face erythema, edema of shin muscles. Heart sounds are muffled, BP is 100/70 mm Hg. In blood: ASAT activity is 0,95 millimole/h·l, ALAT-1,3 micromole/h·l, aldolase - 9,2 IU/l, creatine phosphokinase - 2,5 micromole P/g·l. What method of study would be most specific?
Correct answer	Muscle biopsy

B	ECG
C	Echocardiogram
D	Electromyography
E	Determination of cortisol concentration in blood and urine
№	krok 2016, 2015
Topic	HEMATOLOGY
Task	A 60-year-old woman developed weakness, vertigo, rapid fatigability during the last year. Recently there have been dyspnea and paresthesia observed. Objectively: skin and mucous membranes are pale and icteric. Lingual papillae are smoothed out. Liver and spleen are situated at the edge of costal arch. Blood test: Hb- 70 g/l, erythrocytes - $1,7 \cdot 10^{12} /l$, blood color index - 1,2, macrocytes. What drug can be prescribed on pathogenetic grounds?
Correct answer	Vitamin B12
B	Vitamin B6
C	Ascorbic acid
D	Iron preparations
E	Vitamin B1
№	krok 2016, 2015, 2013
Topic	ENDOCRINOLOGY
Task	A 35-year-old female patient has gained 20 kg weight within a year with the normal diet. She complains of chill, sleepiness, dyspnea. The patient's mother and sister are corpulent. Objectively: height - 160 cm, weight - 92 kg, BMI- 35,9. Obesity is uniform, there are no striae. The face is amimic. The skin is dry. The tongue is thickened. Heart sounds are muffled. Heart rate - 56/min., BP- 140/100 mm Hg. The patient has constipations, amenorrhea for 5 months. TSH- 28 mkME/l (normal rate - 0,32-5). Craniogram shows no pathology. What is the etiology of obesity in this case?
Correct answer	Hypothyroid
B	Hypo-ovarian
C	Hypothalamic-pituitary

D	Alimentary and constitutive
E	Hypercorticoid
№	krok 2016, 2015
Topic	ENDOCRINOLOGY
Task	A 40-year-old female patient complains of having a bulge on the anterior surface of neck for 5 years. Objectively: Ps- 72/min., arterial pressure - 110/70 mm Hg, in the right lobe of thyroid gland palpation reveals a mobile node 4x2 cm in size, the left lobe is not palpable, the basal metabolic rate is 6%. What is the most likely diagnosis?
Correct answer	Nodular euthyroid goiter
B	Nodular hyperthyroid goiter
C	Riedel's thyroiditis
D	Mixed euthyroid goiter
E	Median cervical cyst
№	krok 2016
Topic	HEMATOLOGY
Task	A 45-year-old man has been suffering from duodenal ulcer disease for 5 years. He complains of weakness, dizziness, dryness of the skin. Objectively: the skin and visible mucosa are pale, chapped lips; heart rate is 100/min., BP- 100/70 mm Hg, systolic murmur at all points on heart auscultation. All other internal organs are unchanged. Fecal occult blood test is positive. Blood test: erythrocytes - $3,1 \cdot 10^{12}/l$, Hb- 88 g/l, color index - 0,7 leukocytes - $4,6 \cdot 10^9/l$, platelets - $350 \cdot 10^9 /l$, ESR- 21 mm/hour, anisocytosis, poikilocythemia, serum iron - 9,5 $\mu\text{mol}/l$. What treatment tactics would you choose?
Correct answer	Iron preparations, balanced diet
B	Concentrated red cells transfusion
C	Intramuscular introduction of 500 mkg of cyanocobalamin
D	Corticosteroids, cytostatics
E	Ascorbic acid, calcium chloride
№	krok 2016, 2015, 2013, 2012

Topic	EMERGENCY CONDITIONS
Task	A 58-year-old patient complains of a headache in the occipital region, nausea, choking, opptentes. The presentations appeared after a physical exertion. Objectively: the patient is excited. Face is hyperemic. Skin is pale. Heart sounds are regular, the 2nd aortic sound is accentuated. BP- 240/120 mm Hg, HR- 92/min. Auscultation reveals some fine moist crackles in the lower lungs. Liver is not enlarged. ECG shows signs of hypertrophy and left ventricular overload. What is the most likely diagnosis?
Correct answer	Complicated hypertensive crisis
B	Acute myocardial infarction, pulmonary edema
C	Bronchial asthma exacerbation
D	Uncomplicated hypertensive crisis
E	Community-acquired pneumonia
№	krok 2016, 2015, 2014
Topic	CARDIOLOGY
Task	A week ago a 65-year-old patient suffered an acute myocardial infarction, his general condition deteriorated: he complains of dyspnea at rest, pronounced weakness. Objectively: edema of the lower extremities, ascites is present. Heart borders are extended, paradoxical pulse is observed 2 cm from the apex beat to the left. What is the most likely diagnosis?
Correct answer	Acute cardiac aneurysm
B	Recurrent myocardial infarction
C	Acute pericarditis
D	Cardiosclerotic aneurysm
E	Pulmonary embolism
№	krok 2016, 2015, 2012
Topic	GASTROENTEROLOGY

Task	A 60-year-old patient complains of nearly permanent sensation of heaviness and fullness in the epigastrium, which increases after eating, foul-smelling eructation, occasional vomiting with food consumed 1-2 days ago, weight loss. 12 years ago he was first found to have an ulcer of pyloric channel. The patient has taken ranitidine for periodic hunger pains. The patient's condition has been deteriorating over the last 3 months. Objectively: splashing sound in the epigastrium is present. What kind of complication is it?
Correct answer	Pyloric stenosis
B	Penetration of gastric ulcer
C	Functional pyloric spasm
D	Foreign body in the stomach (bezoar)
E	Malignization of gastric ulcer
№	krok 2016, 2015
Topic	CARDIOLOGY
Task	A 19-year-old patient complains of dyspnea during physical exertion. He often has bronchitis and pneumonia. Cardiac murmur has been observed since his childhood. On auscultation: there is splitting of the II heart sound over pulmonary artery, systolic murmur in the third intercostal space near the left sternum margin. ECG test shows right bundle-branch block. What is the provisional diagnosis?
Correct answer	Interatrial septum defect
B	Open arterial duct
C	Coarctation of aorta
D	Aortic stenosis
E	Mitral valve insufficiency
№	krok 2016
Topic	GASTROENTEROLOGY

Task	A 48-year-old woman has been suffering from chronic pancreatitis for the last 7 years. Lately she has been noticing an increase in daily feces with foul smell, abdominal di-stention, gurgling. The patient complains of diarrhea, weakness, fatigability, loss of appeti-te, loss of weight. What syndrome can be suspected in this case?
Correct answer	Malabsorption
B	Irritable colon
C	Maldigestion
D	Exudative enteropathy
E	Endocrine gland failure
№	krok 2016
Topic	CARDIOLOGY
Task	A 37-year-old man suffers from attacks of unconsciousness, dyspnea during physi-cal exertion, periodical sensations of heart rate disorder. Father of the patient died suddenly at the age of 45. Objectively: heart rate is 90/min., BP is 140/90 mm Hg. On heart US: ejection fraction - 49%, significant myocardium thickening of the left ventri-cle and interventricular septum. What drug should be prescribed for the treatment?
Correct answer	Bisoprolol
B	Enalapril
C	Phenyhydinum (Nifedipine)
D	Hydrochlorothiazide
E	Furosemide
№	krok 2016, 2015
Topic	CARDIOLOGY
Task	A 20-year-old woman complains of sensation of air shortage, lingering dull pain in the heart area, irritability. Objectively: general condition is satisfactory, heart rate lability, BP is 130/60 mm Hg. ECG reveals disruption of repolarization proceses. The pati-ent is diagnosed with somatoform autonomic dysfunction of cardial type. Specify the condi-tions of the patient treatment:

Correct answer	Out-patient treatment
B	In-patient treatment in therapeutics department
C	In-patient treatment in cardiology department
D	In-patient treatment in cardiac surgery department
E	In-patient treatment in psychiatric department
№	krok 2016
Topic	CARDIOLOGY
Task	A 33-year-old patient has developed dyspnea during physical exertion, palpitations, disruptions of heart rate, swollen legs. In the childhood the patient had a case of acute rheumatic fever that required in-patient treatment. There were no further requests for medical care. Objectively: heart rate is 92/min., rhythmic; BP is 110/70 mm Hg. At the apex the I heart sound is increased, triple rhythm, diastolic murmur. What heart disease is most likely?
Correct answer	Mitral valve stenosis
B	Mitral valve failure
C	Aortic outflow stenosis
D	Aortic valve failure
E	Tricuspid valve stenosis
№	krok 2016
Topic	ENDOCRINOLOGY
Task	A 64-year-old woman has been suffering from diabetes mellitus for the last 14 years. Approximately 3 days ago the skin on the distal phalanx of the I toe on the left foot became cold and bluish-black in color. Mild pain is observed in the affected area. Pulse on the pedal arteries cannot be detected, pulse on the popliteal artery is retained. Glycemia is 12,4 mmol/l. US scan: stenosis of the shin arteries, collateral compensated blood flow. Ankle-brachial pressure index is 0,7. Foot X-ray: destruction of the distal phalanx of the I toe. Determine the grade of diabetic foot according to Wagner:
Correct answer	IV
B	I

C	II
D	III
E	V
№	krok 2016
Topic	CARDIOLOGY
Task	A 16-year-old girl addressed a doctor with complaints of fatigability and dizziness. On heart auscultation: systolic murmur in the II intercostal area along the breastbone edge on the left. ECG revealed signs of the right ventricular hypertrophy. X-ray revealed dilatation of the pulmonary artery trunk, enlargement of the right heart. What heart disorder is it?
Correct answer	Pulmonary artery outflow stenosis
B	Fallot's tetrad
C	Defect of the interatrial septum
D	Coarctation of aorta
E	Pulmonary artery valve failure
№	krok 2016
Topic	ENDOCRINOLOGY
Task	A 32-year-old patient complains of excessive appetite, excess weight, dyspnea during physical exertion. There are fat deposits in the area of abdomen and shoulder girdle. The skin is pale-pink, adult male pattern of hair distribution is observed on the torso, no stretch marks. Heart rate is 90/min., BP is 120/80 mm Hg, body build index equals 35. Blood sugar is 4,9 mmol/l, cholesterol is 6,2 mmol/l. On ophthalmoscopy: fundus of the eye without changes. What provisional diagnosis can be made?
Correct answer	Primary alimentary constitutive obesity, android type
B	Primary alimentary constitutive obesity, gynoid type
C	Secondary hypothalamic obesity
D	Secondary neuroendocrine obesity
E	Secondary endocrine hypo-ovarian obesity
№	krok 2015, 2013, 2012

Topic	PULMONOLOGY
Task	A 40-year-old woman has been hospitalized for attacks of asphyxia, cough with phlegm. She has a 4-year history of the disease. The first attack of asphyxia occurred during her stay in the countryside. Further attacks occurred while cleaning the room. After 3 days of inpatient treatment the patient's condition has significantly improved. What is the most likely etiological factor?
Correct answer	Household allergens
B	Pollen
C	Infectious
D	Chemicals
E	Psychogenic
№	krok 2015
Topic	HEMATOLOGY
Task	A 24-year-old patient visited a doctor complaining of enlargement of his submaxillary lymph nodes. Objectively: submaxillary, axillary and inguinal lymph nodes are enlarged. Chest X-ray shows: enlarged lymph nodes of mediastinum. Blood test: erythrocytes $3,4 \cdot 10^{12}/l$, Hb- 100 g/l, blood colour index - 0,88, platelets - $190 \cdot 10^9/l$, leucocytes - $7,5 \cdot 10^9/l$, eosinophiles - 8%, band neutrophiles - 2%, segmented neutrophiles - 67%, lymphocytes - 23%, ESR - 22 mm/h. What test must be prescribed to verify the cause of lymphadenopathy?
Correct answer	Open biopsy of lymph nodes
B	Ultrasonography of abdominal cavity
C	Mediastinum tomography
D	Puncture biopsy of lymph nodes
E	Sternal puncture
№	krok 2015
Topic	CARDIOLOGY

Task	A 52-year-old patient, who has been suffering from angina pectoris for 2 weeks, has more and more frequent pain attacks in the area behind his sternum and his need for nitroglycerine increased. Objectively: the condition is of moderate severity. Skin is pale. Heart sounds are weakened, rhythmic. Heart rate is 84 per minute. ECG shows no signs of focal myocardial damage. What is the most likely diagnosis?
Correct answer	Progressive angina pectoris
B	First-time angina pectoris
C	Stable FC II angina pectoris
D	Variant angina pectoris
E	Acute cardiac infarction
№	krok 2015, 2012
Topic	PULMONOLOGY
Task	A 29-year-old female patient complains of dyspnea, heaviness and chest pain on the right, body temperature rise up to 37,2o The disease is associated with a chest trauma received 4 days ago. Objectively: skin is pale and moist. Heart rate is 90 bpm, regular. Palpation reveals a dull sound on the right, auscultation reveals significantly weakened vesicular breathing. In blood: RBCs - $2,8 \cdot 10^{12}/l$, colour index - 0,9, Hb- 100 g/l, WBCs - $8,0 \cdot 10^9/l$, ESR - 17 mm/h. What results of diagnostic puncture of the pleural cavity can be expected?
Correct answer	Haemorrhagic punctate
B	Chylous liquid
C	Exudate
D	Transudate
E	Purulent punctate
№	krok 2015
Topic	EMERGENCY CONDITIONS
Task	A 54-year-old man had been drowning at sea, when he was found and evacuated to the shore. Objectively: unconscious, pale face, no breathing can be auscultated, thready pulse. Resuscitation measures allowed to save the man. What complication can develop in him in the nearest future?

Correct answer	Pulmonary edema
B	Respiratory arrest
C	Encephalopathy
D	Cardiac arrest
E	Bronchial spasm
№	krok 2015, 2013
Topic	HEMATOLOGY
Task	A patient complains of fatigue, lack of appetite, pain and burning sensation in the tongue, numbness of the distal limbs, diarrhea. Objectively: pale skin with lemon-yellow tint, face puffiness, brown pigmentation in the form of a "butterfly", bright red areas on the tongue. The liver is 3 cm below the costal margin, soft. Blood count: RBCs - $1,5 \cdot 10^{12}/l$, colour index 1,2, WBCs - $3,8 \cdot 10^9/l$, thrombocytes - $180 \cdot 10^9/l$, eosinophiles - 0%, stab neutrophils - 1%, segmented neutrophils - 58%, lymphocytes 38% monocytes - 3%, RBC macrocytosis. ESR - 28 mm/h. What diagnosis are these presentations typical for?
Correct answer	B12-deficiency anemia
B	Iron deficiency anemia
C	Aplastic anemia
D	Acute erythromyelosis
E	Chronic adrenal failure
№	krok 2015, 2014
Topic	HEMATOLOGY
Task	A 25-year-old female patient complains of marked weakness, sleepiness, blackouts, dizziness, taste disorder. The patient has a history of menorrhagia. Objectively: the patient has marked weakness, pale skin, cracks in the corners of her mouth, peeling nails, systolic apical murmur. Blood test results: RBC - $3,4 \cdot 10^{12}/l$, Hb- 70 g/l, colour index - 0,75, platelets - $140 \cdot 10^9/l$, WBC- $6,2 \cdot 10^9/l$. What is the most likely diagnosis?
Correct answer	Chronic posthemorrhagic anemia
B	Acute leukemia

C	Acute posthemorrhagic anemia
D	B12-deficiency anemia
E	Werlhof's disease
№	krok 2015
Topic	ENDOCRINOLOGY
Task	A 48-year-old patient has the following symptoms: diffuse enlargement of thyroid gland, exophthalmus, weight loss up to 4 kg within 2 months, excessive sweating. Objectively: heart rate 105/min, BP - 180/70 mm Hg. Stool is normal. What therapy is advisable in the given case?
Correct answer	Mercazolil (Thiamazole)
B	Potassium iodide
C	Propranolol
D	Iodomarin
E	Thyroxin
№	krok 2015
Topic	RHEUMATOLOGY
Task	A 34-year-old patient after vacation in Crimea has developed severe pain in her elbow joints, dyspnea and weakness. Body temperature is 37,6oC, skin pallor and erythema on the cheeks and bridge of nose are observed, lip mucosa is ulcerated. The joints are not visibly deformed, movement of the right elbow joint is restricted. Pleura friction sound is detected in the lungs on the right side below the angle of scapula. Heart sounds are dull, tachycardia, gallop rhythm, heart rate 114/min, BP - 100/60 mm Hg. The most likely diagnosis is:
Correct answer	Systemic lupus erythematosus
B	Rheumatic carditis
C	Rheumatoid arthritis
D	Infectious allergic myocarditis
E	Dry pleurisy
№	krok 2015

Topic	GASTROENTEROLOGY
Task	A 42-year-old man has undergone gastric analysis. Free hydrochloric acid is absent at all phases. On endoscopy: pallor, gastric mucosa loss, gastric folds are smoothed out. On microscopy: glands atrophy with intestinal metaplasia. What disease can be characterized by such presentation?
Correct answer	Chronic gastritis type A
B	Chronic gastritis type B
C	Chronic gastritis type C
D	Menetrier's disease
E	Stomach cancer
№	krok 2015, 2013
Topic	RHEUMATOLOGY
Task	A 28-year-old female patient with a six-year history of Raynaud's syndrome has recently developed pain in the small joints of hands, difficult movement of food down the esophagus. What disease can be suspected in this case?
Correct answer	Systemic scleroderma
B	Periarthritis nodosa
C	Rheumatoid arthritis
D	Systemic lupus erythematosus
E	Pseudotrichiniasis
№	krok 2015, 2013
Topic	CARDIOLOGY
Task	A 40-year-old woman with a history of combined mitral valve disease with predominant stenosis complains of dyspnea, asthma attacks at night, heart problems. At present, she is unable to do even easy housework. What is the optimal tactics of the patient treatment?
Correct answer	Mitral commissurotomy
B	Implantation of an artificial valve
C	Antiarrhythmia therapy

D	Treatment of heart failure
E	Antirheumatic therapy
№	krok 2015
Topic	PULMONOLOGY
Task	A 26-year-old male patient complains of piercing pain during breathing, cough, dyspnea. Objectively: to- 37,3oC, respiration rate is 19/min, heart rate is 92/min; BP is 120/80 mm Hg. Vesicular respiration is observed. In the inferolateral parts of chest auscultation in both inspiration and expiration phase revealed noise that was getting stronger at phonendoscope pressing and could be still heard after cough. ECG showed no pathological changes. What is the most likely diagnosis?
Correct answer	Acute pleuritis
B	Intercostal neuralgia
C	Subcutaneous emphysema
D	Spontaneous pneumothorax
E	Pericarditis sicca
№	krok 2015, 2014
Topic	CARDIOLOGY
Task	A 26-year-old female patient has an 11year history of rheumatism. Four years ago she suffered 2 rheumatic attacks. Over the last 6 months there have been paroxysms of atrial fibrillation every 2-3 months. What option of antiarrhythmic therapy or tactics should be proposed?
Correct answer	Prophylactic administration of cordarone
B	Immediate hospitalization
C	Defibrillation
D	Lidocaine administration
E	Heparin administration
№	krok 2015, 2009, 2008
Topic	EMERGENCY CONDITIONS

Task	During examination a patient is unconscious, his skin is dry and hot, face hyperemia is present. The patient has Kussmaul's respiration, there is also smell of acetone in the air. Symptoms of peritoneum irritation are positive. Blood sugar is 33 millimole/l. What emergency actions should be taken?
Correct answer	Intravenous infusion of short-acting insulin
B	Intravenous infusion of glucose along with insulin
C	Introduction of long-acting insulin
D	Intravenous infusion of neohaemodesum along with glutamic acid
E	Intravenous infusion of sodium chloride saline
№	krok 2015, 2013, 2012
Topic	HEMATOLOGY
Task	Against the background of angina a patient has developed pain in tubular bones. Examination revealed generalized enlargement of lymph nodes, hepatolienal syndrome, sternalgia. In blood: RBCs - $3,6 \cdot 10^{12}/l$, Hb87 g/l, thrombocytes - $45 \cdot 10^9/l$, WBCs - $13 \cdot 10^9/l$, blasts - 87%, stab neutrophils - 1%, segmented neutrophils - 7%, lymphocytes 5%, ESR - 55 mm/h. What is the most likely diagnosis?
Correct answer	Acute leukemia
B	Erythremia
C	Chronic lymphocytic leukemia
D	Chronic myeloid leukemia
E	Multiple myeloma
№	krok 2015, 2009
Topic	HEMATOLOGY
Task	A 34-year-old patient complains of profuse sweating at night, skin itching, weight loss (9 kg within the last 3 months). Examination revealed malnutrition, skin pallor. Palpation of neck and inguinal areas revealed dense elastic lymph nodes of about 1 cm in diameter, nonmobile, non-adhering to skin. What is the most probable diagnosis?
Correct answer	Lymphogranulomatosis
B	Chronic lymphadenitis

C	Lymphosarcoma
D	Burkitt's lymphoma
E	Cancer metastases
№	krok 2015
Topic	GASTROENTEROLOGY
Task	A 57-year-old woman complains of having a sensation of esophageal compression, palpitation, breathing difficulties when eating solid food, occasional vomiting with a full mouth, "wet pillow" sign at night for the last 6 months. Objectively: body temperature - 39°C, height 168 cm, weight - 72 kg, heart rate - 76/min, BP 120/80 mm Hg. X-ray revealed considerable dilation of esophagus and its constriction in the cardiac part. What pathology is most likely to have caused dysphagia in this patient?
Correct answer	Achalasia cardiae
B	Primary esophagism
C	Hiatal hernia
D	Esophageal carcinoma
E	Reflux esophagitis
№	krok 2015
Topic	ENDOCRINOLOGY
Task	During a surgical operation necessitated by the patient's suffering from autoimmune thyroiditis with concomitant multinodular goiter the right lobe was removed and subtotal resection of the left lobe was performed. What should be prescribed to the patient for postoperative hypothyroidism prevention?
Correct answer	L-thyroxin
B	Mercazolil (Thiamazole)
C	Iodomarin (Potassium iodide)
D	Lithium preparations
E	Insulin
№	krok 2015
Topic	ENDOCRINOLOGY

Task	A 54-year-old patient has been suffering from diabetes mellitus for 5 years, with diet being his only treatment. Within the last half a year he lost 7 kg of body weight, complains of thirst, vertigo when raising from bed, decrease of erectile function, frequent stool, especially at night. Objectively: malnutrition, dry skin. BP in lying position is 160/90 mm Hg; BP in standing position is 170/85 mm Hg. No edemas. Fasting plasma glucose level is 12 mmol/l. Glycated hemoglobin accounts for 11%. Albumin excreted with urine is 20 mg per day. The most likely diagnosis is:
Correct answer	Diabetes mellitus type 2 with visceral neuropathy
B	Diabetes mellitus type 1 with ketoacidosis
C	Diabetes mellitus type 1 with encephalomyelopathy
D	Diabetes mellitus type 2 with nephropathy
E	Diabetes mellitus type 2 with polyneuropathy
№	krok 2015
Topic	RHEUMATOLOGY
Task	A 68-year-old patient complains of pain, slight swelling and creaking in the distal joints of her fingers and knee joints. She has been suffering from this condition for 4 years. Objectively: thickening of knee and interphalangeal joints, restricted mobility of these joints. Blood test: leukocytes - $5,4 \cdot 10^9/l$, ESR - 12 mm/h, fibrinogen - 3,5 g/l; Rheumatoid factor - 1:32; anti-streptolysin O - 160 units; seromucoid - 0,20 units.; CRP+. What mechanism of development is likely for this condition?
Correct answer	Glycosaminoglycanes synthesis disruption
B	Rheumatoid factor development
C	Native DNA antibodies hyperproduction
D	Increased uric acid sunthesis
E	Immune reaction to streptococcosis
№	krok 2015
Topic	PULMONOLOGY

Task	A patient's X-ray image (anteroposterior projection) shows deformation of lung pattern, pneumofibrosis, reticular (honeycomb) lung pattern of lower pulmonary segments, cylindric and fusiform lumps. The most likely diagnosis is:
Correct answer	Multiple bronchiectasis
B	Right lung abscess
C	Non-hospital-acquired pneumonia
D	Lungs maldevelopment
E	Diffuse pulmonary fibrosis
№	krok 2015
Topic	ENDOCRINOLOGY
Task	A 41-year-old patient with Addison's disease had influenza. After that he developed adynamia, depression, nausea, vomiting, diarrhea and hypoglycemia. BP is 75/50 mm Hg. Blood test: decreased content of corticosterone, hydrocortisone, 13-oxycorticosteroids, 17-oxycorticosteroids. What condition has developed in the patient?
Correct answer	Acute adrenal gland insufficiency
B	Acute gastritis
C	Acute enterocolitis
D	Collapse
E	Diabetes mellitus
№	krok 2015
Topic	HEMATOLOGY
Task	A 20-year-old patient was delivered to a surgical unit complaining of an incised wound on his right forearm that has been bleeding for 1,5 days. Suffers from general weakness, vertigo, cold sweat, opplotentes. Skin and visible mucous membranes are pale. Heart rate is 110/min, BP is 100/70 mm Hg. Blood test: Hb is 100 g/l, erythrocytes $2,5 \cdot 10^{12}/l$. What is the cause for the patient's general condition?
Correct answer	Posthemorrhagic anemia
B	Aplastic anemia

C	Wound infection
D	Concomitant disease
E	Acute trombophlebitis
№	krok 2015
Topic	EMERGENCY CONDITIONS
Task	A 23-year-old woman after stress has developed thirst, polydipsia, polyuria, weight loss, increasing fatigue. Later she developed nausea and somnolence, lost consciousness and was hospitalised. Glycemia is 27 mmol/l, acetone in urine is sharply positive. Treatment for ketoacidotic coma was initiated. When would it be advisable to start preventive treatment of hypoglycemia by introduction of 5% glucose solution?
Correct answer	After glycemia rate drops to 13-14 mmol/l
B	2 hours after beginning of insulinotherapy
C	When patient becomes conscious
D	After glycemia rate becomes normal
E	If glycemia decreases with the rate over 5 mmol/l per hour
№	krok 2015
Topic	HEMATOLOGY
Task	A 22-year-old woman on a reduced diet, vegetarian, attended a hospital with complaints of distorted smell and taste perception and lesions in the angles of her mouth. Objectively: sclera is distinctly blue. Diagnosis: irondeficiency anemia. What clinical syndrome is expressed primarily?
Correct answer	Sideropenic
B	Anemic
C	Hemorrhagic
D	Hemolytic
E	Myelodysplastic
№	krok 2015
Topic	CARDIOLOGY

Task	A 44-year-old man complains of dyspnea with sensation of lack of air on inhale, palpitations occurring during slight physical exertion, and shin edemas that appear in evening and resolve in morning. His condition has been lasting for 5 months already, deterioration is gradual. What method of instrumental diagnostics allows to verify decrease of systolic function in this patient?
Correct answer	Echocardiography
B	Electrocardiography
C	Computed tomogram
D	Phonocardiography
E	Holter blood pressure monitoring
№	krok 2015
Topic	CARDIOLOGY
Task	A 70-year-old patient consulted a doctor about arrhythmic cardiac activity, dyspnea. Objectively: BP - 150/90 mm Hg, extrasystole arrhythmia (10-12 beats per minute), left ventricular systolic dysfunction (ejection fraction at the rate of 42%). Which of antiarrhythmic drugs should be administered as initial therapy in this case?
Correct answer	Amiodarone
B	Flecainide
C	Encainide
D	Moracizine
E	Digoxin
№	krok 2015
Topic	RHEUMATOLOGY
Task	A 40-year-old patient complains of constant moderate pain in the lumbar spine and significantly reduced mobility. The patient has been suffering from this condition for the last 7 years since pain appeared first in the sacrum area. X-ray: ankylosis of sacroiliac articulation, significant narrowing of intervertebral joint fissures of lumbar vertebrae and calcification of spinal ligaments. What pathology is most likely to cause such X-ray image?

Correct answer	Ankylosing spondylitis
B	Spinal tuberculosis
C	Spinal osteochondrosis
D	Vertebral osteochondropathy
E	Rheumatoid arthritis
№	krok 2014
Topic	GASTROENTEROLOGY
Task	A 64-year-old male patient has a 35year history of chronic pancreatitis. In the last 5 years, he claims to observe the pain abatement, bloating, frequent bowel movements up to 3-4 times a day, grayish, glossy stool with undigested food rests, the progressive loss of body weight. Change of symptoms in the patient is due to overlay of:
Correct answer	Exocrine pancreatic insufficiency
B	Endocrine pancreatic insufficiency
C	Lactase deficiency syndrome
D	Irritable bowel syndrome
E	Chronic enterocolitis
№	krok 2014
Topic	GASTROENTEROLOGY
Task	During the doctor's round, a 56-year-old male patient with decompensated cirrhosis complains of dizziness, palpitations, moving black specks seen before the eyes, general weakness. The patient is pale, Ps- 110/min, AP- 90/50 mm Hg. What complication is most likely to have occurred in the patient?
Correct answer	Bleeding from esophageal varices
B	Hepatocellular insufficiency
C	Hepatic encephalopathy
D	Acute coronary syndrome
E	Paroxysmal tachycardia
№	krok 2014

Topic	GASTROENTEROLOGY
Task	A 57-year-old female patient complains of intense pain in the right hypochondrium irradiating to the right supraclavicular region. Skin and sclerae are icteric. There is tension and tenderness in the right hypochondrium on palpation. Body temperature is 38,8o Blood test results: WBC- 11,2 · 10 ⁹ /l, total bilirubin - 112 mmol/l (conjugated - 86 mmol/l, unconjugated - 26 mmol/l). What is the most likely diagnosis?
Correct answer	Cholangitis
B	Acute pancreatitis
C	Acute appendicitis
D	Pancreatic tumor
E	Perforated duodenal ulcer
№	krok 2014
Topic	CARDIOLOGY
Task	Examination of a 35-year-old patient with rheumatism revealed that the right heart border was 1 cm displaced outwards from the right parasternal line, the upper border was on the level with inferior margin of the 1st rib, the left border was 1 cm in from the left midclavicular line. Auscultation revealed atrial fibrillation, loud apical first sound, diastolic shock above the pulmonary artery. Echocardiocopy revealed abnormal pattern of the mitral valve motion. What heart disease is characterized by these symptoms?
Correct answer	Mitral stenosis
B	Mitral valve prolapse
C	Mitral valve insufficiency
D	Aortic stenosis
E	Tricuspid valve insufficiency
№	krok 2014
Topic	ENDOCRINOLOGY

Task	A 39-year-old female patient complains of dyspnea when walking, palpitation, edemata in the evening. The patient's height is 164 cm, weight - 104 kg. Objectively: overnutrition. Heart sounds are weak, and tachycardia is present. The menstrual cycle is not broken. Blood sugar is 5,6 mmol/l, ACTH-response tests revealed no alterations. X-ray of the Turkish saddle revealed no pathology. What disease is it?
Correct answer	Alimentary obesity
B	Climax
C	Pituitary obesity
D	Diabetes mellitus
E	Cushing's syndrome (primary hypercortisolism)
№	krok 2014
Topic	RHEUMATOLOGY
Task	A 36-year-old female patient complains of intense pain in the knee joints and neck. In the morning she experiences pain in the interscapular region and leg joints; pain subsides after warm-up gymnastics. The patient is overnourished, there is a clicking sound in the knees when squatting, the knees are somewhat disfigured, painful on palpation. Blood test results: ESR- 18 mm/h, WBC- 8,0·10 ⁹ /l. Radiography reveals subchondral sclerosis in the left knee. What is the basis of this pathology?
Correct answer	Degenerative processes in cartilage
B	Autoimmune process in the synovium
C	Deposition of urates (tophi) in the articular tissues
D	Beta-haemolytic streptococcus
E	Hemarthrosis
№	krok 2014
Topic	GASTROENTEROLOGY

Task	A 33-year-old female complains of escalating spastic pain in the abdomen after the psycho-emotional stress. The patient has intermittent bowel movements, that is 2-3 bowel movements after waking up alternate with constipation lasting for 1-2 days. Objectively: body weight is unchanged, there is moderate pain on palpation of the sigmoid colon. Hb- 130 g/l, WBC- $5,2 \cdot 10^9/l$, ESR- 9 mm/h. Proctosigmoidoscopy causes pain due to spastic bowel condition, intestinal mucosa is not changed. In the lumen there is a lot of mucus. What is the most likely diagnosis?
Correct answer	Irritable bowel syndrome
B	Crohn's disease
C	Non-specific ulcerative colitis
D	Acute bowel ischemia
E	Malabsorption syndrome
№	krok 2014
Topic	RHEUMATOLOGY
Task	After a holiday in the Crimea, a 36-yearold female patient presents with severe pain in the elbow joints, dyspnea and weakness. The body temperature is of 37,6oC, the skin is pale, there is erythema of cheeks and nose, lower lip ulceration. Visual inspection reveals no changes in the joints, the right elbow movement is limited. There is murmur and pleural friction in the lungs below the right angle of the scapula. Cardiac sounds are muffled, there is tachycardia, gallop rhythm, Ps- 114/min. AP- 100/60. What is the most likely diagnosis?
Correct answer	SLE
B	Rheumatic heart disease
C	Rheumatoid arthritis
D	Infectious allergic myocarditis
E	Dry pleurisy
№	krok 2014
Topic	RHEUMATOLOGY

Task	A 53-year-old male has been admitted to a hospital for an attack of renal colic which has repeatedly occurred throughout the year. Objectively: in the region of auricles and the right elbow some nodules can be seen that are covered with thin shiny skin. Ps- 88/min, AP- 170/100 mm Hg. There is bilateral costovertebral angle tenderness (positive Pasternatsky's symptom). The patient has been scheduled for examination. What laboratory value would be most helpful for making a diagnosis?
Correct answer	Uric acid
B	Rheumatoid factor
C	ESR
D	Urine sediment
E	Lactic acid
№	krok 2014
Topic	GASTROENTEROLOGY
Task	A 48-year-old male in-patient undergoes treatment for essential hypertension of IIB stage. It is known from history that he works in a design engineering office. His job involves neuro-emotional stress. Which of these foodstuffs do not stimulate the central nervous system and can be recommended for the patient?
Correct answer	Whole milk
B	Meat broths
C	Mushroom broths
D	Vegetable broths
E	Carbonated beverages
№	krok 2014
Topic	NEPHROLOGY
Task	2 weeks after having quinsy, a 26-year-old male patient got facial edemata, moderate pain in the sacrum. Objectively: body temperature is 37,5°C, AP- 100/80 mm Hg. Urinalysis results: RBC- up to 100 fresh cells in per HPF, protein - 2,2 g/l, hyaline cylinders - up to 10 per HPF, relative density 1002. What is the most likely diagnosis?
Correct answer	Acute glomerulonephritis

B	Nephroma
C	Acute pyelonephritis
D	Urolithiasis
E	Chronic glomerulonephritis
№	krok 2014
Topic	ENDOCRINOLOGY
Task	A 39-year-old female patient complains of rapid fatigability, drowsiness, dry skin, hair loss, swelling of the face. A month ago, she underwent a surgery for thyrotoxicosis. The patient has the following gland dysfunction:
Correct answer	Thyroid (hypothyroidism), due to inadequate operative technique
B	Pituitary, due to a tumor
C	Adrenal
D	Parathyroid, due to the gland removal during surgery
E	Ovarian, due to a tumor
№	krok 2014
Topic	GASTROENTEROLOGY
Task	A 63-year-old female complains of general weakness, a feeling of heaviness, compression in the epigastrium, postprandial fullness, nausea, belching after meals. These symptoms have been observed for about 15 years. Objectively: body temperature is 36,4oC, respiratory rate - 20/min, Ps - 88/min, blood pressure - 115/75 mm Hg. Skin and mucous membranes are pale. Blood test results: RBC - 2,0·10 ¹² /l, Hb - 100 g/l. Tests revealed parietalcell antibodies. What is the most likely reason for the development of anemia in this patient?
Correct answer	Production of antibodies to intrinsic factor
B	Disruption of hemoglobin synthesis
C	Disruption of erythropoietin synthesis
D	Impaired iron absorption
E	Increased loss of iron

№	krok 2014
Topic	RHEUMATOLOGY
Task	A 39-year-old male patient complains of moderate pain and weakness in the shoulder, back and pelvic girdle muscles, that has been progressing for the last 3 weeks; great difficulty in getting out of bed, going up and down the stairs, shaving. Dermatomyositis has been suspected. Blood test results: Hb- 114 g/l, WBC- 10,8 · 10 ⁹ /l, eosinophils - 9%, ESR -22 mm/h, C-reactive protein - (++) . The alteration in the following laboratory value will be of decisive diagnostic significance:
Correct answer	Creatine phosphokinase
B	Ceruloplasmin
C	Sialic acids
D	dsDNA antibodies
E	Gamma-globulins
№	krok 2014, 2013
Topic	RHEUMATOLOGY
Task	A 60-year-old female patient complains of recurrent pain in the proximal interphalangeal and wrist joints, their periodic swelling and reddening that have been observed for 4 years. X-ray picture represents changes in form of osteoporosis, joint space narrowing and single usuras. What is the most likely diagnosis?
Correct answer	Rheumatoid arthritis
B	Osteoarthritis
C	Gout
D	Pseudogout
E	Multiple myeloma
№	krok 2014
Topic	EMERGENCY CONDITIONS

Task	A 30-year-old female patient has been delivered to a hospital for sudden dyspnea progressing to asthma, sensation of having a "lump in the throat", hand tremor, fear of death. The attack has developed for the first time and is associated with a strong emotion. There is no previous history. Objectively: respiratory rate - 28/min, Ps- 104/min, rhythmic, AP- 150/85 mm Hg. The patient has rapid superficial vesicular breathing with extended expiration. Percussion findings: heart borders are not changed. Cardiac sounds are loud, rhythmic. What is the most likely diagnosis?
Correct answer	Neurocirculatory asthenia
B	Bronchial asthma
C	Hypertensive crisis
D	Cardiac asthma
E	Thyrotoxic crisis
№	krok 2014
Topic	PULMONOLOGY
Task	A 65-year-old male patient complains of dyspnea that is getting worse with exertion, morning cough with expectoration of mucous sputum. For about 15 years, he has been subject to regular medical check-up for chronic bronchitis. The patient takes berodual (16 inhaled doses per day). Objectively: body temperature is 36,8oC, RR- 24/min, Ps- 110/min, AP- 145/90 mm Hg. Auscultation reveals a lot of dry rales above the lungs. FEV1- 65%. What is the optimal tactics of further management of the patient?
Correct answer	To administer inhalation corticosteroids
B	To administer antibiotics
C	To administer theophylline
D	To increase the daily dose of berodual
E	To include short-acting β 2-agonists in the therapy
№	krok 2014
Topic	PULMONOLOGY

Task	A 43-year-old female patient complains of dyspnea, swelling of legs, abdomen enlargement, pricking heart pain. She has a history of tuberculous bronchadenitis, quinsies. The patient's condition deteriorated 6 months ago. Objectively: cyanosis, bulging neck veins, vesicular breathing. Heart borders are not displaced. Heart sounds are muffled, Ps- 106/min, liver is +4 cm, ascites is present. Low voltage on the ECG has been revealed. Radiograph shows a thin layer of calcium deposits along the left contour of heart. What treatment should be recommended to the patient?
Correct answer	Treatment by a cardiac surgeon
B	Digitalis preparations
C	Anti-TB drugs
D	Diuretics
E	Vasodilators, nitrates
№	krok 2014
Topic	EMERGENCY CONDITIONS
Task	A 44-year-old male patient complains of severe non-localized abdominal pain, pain in the right shoulder girdle, repeated vomiting, red urine. The onset of the disease is associated with alcohol consumption. The face is hyperemic. AP- 70/40 mm Hg. Abdominal radiography reveals no pathological shadows. Hemodiastase is 54 mg/h/l. Prothrombin is 46%. What is the provisional diagnosis?
Correct answer	Acute pancreatitis
B	Acute myocardial infarction
C	Perforated gastric ulcer
D	Thrombosis of mesenteric vessels
E	Aneurysm of the abdominal aorta
№	krok 2014
Topic	ENDOCRINOLOGY
Task	A 24-year-old male patient had been diagnosed with class III diffuse toxic goiter. There is moderate hyperthyroidism. A surgery was suggested, and the patient agreed to it. What preoperative measures should be taken for prevention of thyrotoxic crisis in the postoperative period?

Correct answer	Administration of antithyroid drugs
B	Minimally invasive surgical techniques
C	Bed rest
D	Detoxification therapy
E	Administration of corticosteroids
№	krok 2014
Topic	GASTROENTEROLOGY
Task	A 47-year-old female patient has an 8year history of ulcerative colitis, has been treated with glucocorticoids. She complains of cramping pain in the umbilical region and left iliac region which has significantly increased during the past 2 weeks, diarrhea with mucus and blood 4-6 times a day, elevated body temperature up to 38 – 39oC, headache and pain in the knee joints. Objectively: the patient is in moderate condition, Ps- 108/min, AP- 90/60 mm Hg; heart and lungs are unremarkable; the tongue is moist; abdominal muscle tone is significantly decreased; peristaltic noises are absent. What complication developed in the patient?
Correct answer	Toxic dilatation of the colon
B	Perforation of the colon
C	Enterorrhagia
D	Stricture of the colon
E	Colon carcinoma
№	krok 2014
Topic	HEMATOLOGY
Task	A 30-year-old male patient complains of inertness, low-grade fever, bleeding gums, frequent quinsies, aching bones. Objectively: the patient has pale skin and mucous membranes, sternalgia, +2 cm liver, +5 cm painless spleen. Blood test results: RBC $2,7 \cdot 10^{12}/l$, Hb- 80 g/l, WBC- $3 \cdot 10^9/l$, eosinophils - 4%, basophils - 5%, blasts 4segmented neutrophils - 17%, lymphocytes 29%, myelocytes - 25%, promyelocytes - 12%, monocytes - 2%, platelets - $80 \cdot 10^9/l$, ESR 57 mm/h. What test should be performed to verify the diagnosis?

Correct answer	Sternal puncture
B	Trephine biopsy
C	Lymph node biopsy
D	Lumbar puncture
E	Chest X-ray
№	krok 2014
Topic	ENDOCRINOLOGY
Task	A patient with autoimmune thyroiditis accompanied by multinodular goiter underwent the right lobe ectomy and subtotal resection of the left lobe. What drug should be administered to prevent postoperative hypothyroidism?
Correct answer	L-thyroxine
B	Merkazolil
C	Iodomarin
D	Lithium drugs
E	Insulin
№	krok 2014
Topic	ENDOCRINOLOGY
Task	A 49-year-old female patient has type 1 diabetes of moderate severity. The disease is complicated by retinopathy and polyneuropathy. Besides that, repeated analyses of the daily urinary excretion of albumin revealed microalbuminuria (200-300 mg/day). Glomerular filtration rate is 105 ml/min. Blood pressure is within normal range. Normalization of the following indicator should be the first-priority task in the secondary prevention of diabetic nephropathy:
Correct answer	Glycosylated hemoglobin
B	C-peptide
C	Blood insulin
D	Fasting glucose
E	Glycemia 2 hours after a meal

№	krok 2014
Topic	CARDIOLOGY
Task	During the preventive examination a 17-year-old young man reports no health problems. Objectively: the patient is undernourished, asthenic; blood pressure is 110/70 mm Hg, Ps- 80/min. Heart borders are within normal range. Auscultation reveals three apical heart sounds, murmurs are absent. ECG shows no pathological changes, PCG registers the S3 occurring 0,15 seconds after the S2. How can you interpret these changes?
Correct answer	Physiologic S3
B	Fout-ta-ta-rou (three-component rhythm)
C	Protodiastolic gallop rhythm
D	Presystolic gallop rhythm
E	Physiologic S4
№	krok 2014
Topic	EMERGENCY CONDITIONS
Task	After having the flu, a 39-year-old male patient with a history of Addison's disease developed a condition manifested by weakness, depression, nausea, vomiting, diarrhea, hypoglycemia. AP- 75/50 mm Hg. Blood test results: low corticosterone and cortisol, 13-oxycorticosteroids, 17-oxycorticosteroids levels. What condition developed in the patient?
Correct answer	Acute adrenal insufficiency
B	Acute gastritis
C	Acute enterocolitis
D	Collapse
E	Diabetes mellitus
№	krok 2014
Topic	RHEUMATOLOGY

Task	A 19-year-old male patient complains of intense pain in the left knee joint. Objectively: the left knee joint is enlarged, the overlying skin is hyperemic, the joint is painful on palpation. Blood test results: RBC- $3,8 \cdot 10^{12}/l$, Hb- 122 g/l, lymphocytes - $7,4 \cdot 10^9/l$, platelets - $183 \cdot 10^9/l$. ESR- 10 mm/h. Duke bleeding time is 4 minutes, Lee-White clotting time - 24 minutes. A-PTT is 89 sec. Rheumatoid factor is negative. What is the most likely diagnosis?
Correct answer	Hemophilia, hemarthrosis
B	Werlhof's disease
C	Rheumatoid arthritis
D	Thrombocytopathy
E	Hemorrhagic vasculitis, articular form
№	krok 2014
Topic	CARDIOLOGY
Task	A 29-year-old female patient complains of dyspnea and palpitations on exertion. According to her mother, as a child she had heart murmur, did not undergo any examinations. Objectively: the patient has pale skin, Ps- 94/min, rhythmic. AP- 120/60 mm Hg. In the II intercostal space on the left auscultation reveals a continuous rasping systolodiastolic murmur, diastolic shock above the pulmonary artery. Blood and urine are unremarkable. What is the most likely diagnosis?
Correct answer	Patent ductus arteriosus
B	Atrial septal defect
C	Ventricular septal defect
D	Aortarctia
E	Tetralogy of Fallot
№	krok 2014
Topic	EMERGENCY CONDITIONS
Task	A 67-year-old female patient with hypertensive crisis has asthma, cough with expectoration of frothy pink sputum, moist rales in the lungs. The patient stays in sitting position, respiratory rate is 40/min, AP214/136 mm Hg, heart rate - 102/min. What is the most rational tactics of this patient management?

Correct answer	Intravenous administration of furosemide
B	Urgent pneumography
C	Bed rest, lying position
D	Intravenous administration of a β -blocker
E	Tactics can be determined after ECG and chest radiography
№	krok 2014
Topic	CARDIOLOGY
Task	A 63-year-old male patient with persistent atrial fibrillation complains of moderate dyspnea. Objectively: peripheral edemata are absent, vesicular breathing is present, heart rate - 72/min, AP- 140/90 mm Hg. What combination of drugs will be most effective for the secondary prevention of heart failure?
Correct answer	Beta-blockers, ACE inhibitors
B	Beta-blockers, cardiac glycosides
C	Cardiac glycosides, diuretics
D	Cardiac glycosides, ACE inhibitors
E	Diuretics, beta-blockers
№	krok 2014
Topic	HEMATOLOGY
Task	During an exam, a 22-year-old female student fainted. She grew up in a family with many children, has a history of frequent acute respiratory infections. Objectively: the patient has pale skin and mucous membranes, splitend hair, brittle nails. Blood test results: RBC $2,7 \cdot 10^{12}/l$, Hb- 75 g/l, color index - 0,7, WBC- $3,2 \cdot 10^9/l$, platelets - $210 \cdot 10^9/l$, ESR- 30 mm/h. Blood serum iron is 6 mmol/l. What is the most likely diagnosis?
Correct answer	Iron-deficiency anemia
B	Acute leukemia
C	B12-deficiency anemia
D	Vegetative-vascular dystonia
E	Aplastic anemia

№	krok 2014
Topic	CARDIOLOGY
Task	After a holiday in the Crimea, a 49-year-old male patient with a history of lung tuberculosis felt increased weakness, periodic dizziness, easing bowel movements with abdominal pain, the need for additional salting his meals. The patient has noted that his condition improves after some sweet tea and validol taken sublingually. Objectively: there is an intense darkening of skin, AP- 70/50 mm Hg, glycemia is 3,0 mmol/l. What is the possible cause of health deterioration:
Correct answer	Chronic adrenal insufficiency
B	Diabetes mellitus
C	Coronary artery disease
D	Chronic pancreatitis
E	Pulmonary tuberculosis
№	krok 2014
Topic	GASTROENTEROLOGY
Task	A 28-year-old male patient complains of sour regurgitation, cough and heartburn that occurs every day after having meals, when bending forward or lying down. These problems have been observed for 4 years. Objective status and laboratory values are normal. FEGDS revealed endoesophagitis. What is the leading factor in the development of this disease?
Correct answer	Failure of the lower esophageal sphincter
B	Hypersecretion of hydrochloric acid
C	Duodeno-gastric reflux
D	Hypergastrinemia
E	Helicobacter pylori infection
№	krok 2014
Topic	HEMATOLOGY

Task	A 43-year-old female complains of significant weakness, sore throat, occurrence of multiple unexplained bruises on her skin. These symptoms have been present for a week, the disease is associated with quinsy which she had some time before. Objectively: body temperature - 38,9°C, respiratory rate 24/min, Ps- 110/min, AP- 100/65 mm Hg. The patient has pale skin, petechial rash on the extremities, enlarged lymph nodes. Blood test results: Hb- 80 g/l, RBC- $2,2 \cdot 10^{12}/l$; WBC- $3,5 \cdot 10^9/l$; blasts - 52%; eosinophils - 2%; stab neutrophils - 3%; segmented neutrophils - 19%; lymphocytes - 13%; monocytes - 1%; platelets - $35 \cdot 10^9/l$. ESR - 47 mm/h. What test is required to specify the diagnosis?
Correct answer	Immunophenotyping
B	Protein electrophoresis
C	Lymph node biopsy
D	Determination of anti-platelet antibody titer
E	Cytogenetic study
№	krok 2014
Topic	CARDIOLOGY
Task	A 47-year-old male patient complains of compressive chest pain that occurs both at rest and during light physical activity; irregular heartbeat. These problems arose 3 months ago. The patient's brother died suddenly at the age of 30. Objectively: Ps- 84/min, arrhythmic, AP- 130/80 mm Hg. ECG confirms signs of left ventricular hypertrophy, abnormal Qwaves in V 4 – V 6 leads. EchoCG reveals that interventricular septum is 1,7 cm, left ventricular wall thickness is 1,2 cm. What is the most likely diagnosis?
Correct answer	Hypertrophic cardiomyopathy
B	Neurocirculatory asthenia
C	Exertional angina
D	Myocarditis
E	Pericarditis
№	krok 2013
Topic	HEMATOLOGY

Task	A 24-year-old patient consulted a doctor about enlarged submandibular lymph nodes. Objectively: submandibular, axillary and inguinal lymph nodes are enlarged. Chest radiograph shows enlarged mediastinal lymph nodes. In blood: RBCs - $3,4 \cdot 10^{12}/l$, Hb- 100 g/l, colour index - 0,88, thrombocytes - $190 \cdot 10^9/l$, WBCs - $7,5 \cdot 10^9/l$, eosinophils 8%, stab neutrophils - 2%, segmented neutrophils - 67%, lymphocytes - 23%, ESR - 22 mm/h. What study is required to verify the cause of lymphadenopathy?
Correct answer	Open biopsy of lymph nodes
B	Ultrasound examination of the abdomen
C	Mediastinal tomography
D	Puncture biopsy of lymph nodes
E	Sternal puncture
№	krok 2013
Topic	GASTROENTEROLOGY
Task	Gastric juice analysis of a 42-year-old male patient revealed absence of free hydrochloric acid at all stages. Endoscopy revealed pallor, thinning of gastric mucosa, smoothed folds. Microscopically the atrophy of glands with intestinal metaplasia was found. What disease is this situation typical for?
Correct answer	Chronic type A gastritis
B	Chronic type B gastritis
C	Chronic type C gastritis
D	Menetrier disease
E	Stomach cancer
№	krok 2013
Topic	GASTROENTEROLOGY
Task	A 45-year-old female patient complains of frequent liquid stools with a lot of mucus, pus and blood; pain across the abdomen, loss of 7 kg within 6 months. She has a 1-year history of non-specific ulcerative colitis. What group of drugs should be preferred for this patient?
Correct answer	Corticosteroids
B	Antibacterial

C	Sulfonamides
D	Nitrofurans
E	Polyenzymes
№	krok 2013
Topic	RHEUMATOLOGY
Task	A 60-year-old male patient, who works as a construction worker, complains of pain in the right hip and knee joints, that is getting worse on exertion. These presentations have been observed for the last 5 years. Objectively: the patient is overnourished. Right knee joint is moderately deformed. Examination of other organs and systems revealed no pathology. Blood tet results: WBCs $8,2 \cdot 10^9/l$, ESR - 15 mm/h. Uric acid - 0,35 mmol/l. What is the most likely diagnosis?
Correct answer	Deforming osteoarthritis
B	Reactive arthritis
C	Gout
D	Rheumatoid arthritis
E	Reiter's disease
№	krok 2013
Topic	GASTROENTEROLOGY
Task	A 55-year-old male has a 1,5-year history of viral cirrhosis with symptoms of portal hypertension. Over the last month the weakness has progressed, there appeared coffee ground vomit. Fibrogastroduodenoscopy revealed variceal esophageal haemorrhage. What drug should be used to reduce the pressure in the portal vein?
Correct answer	Vasopressin
B	Reserpine
C	Calcium gluconate
D	Dicynone
E	Furosemide
№	krok 2013

Topic	PULMONOLOGY
Task	A 40-year-old patient complains of fever up to 39°C, cough with sputum and blood admixtures, dyspnea, weakness, herpetic rash on the lips. Objectively: respiration rate - 32/min. Under the shoulder blade on the right the increased vocal fremitus and dullness of percussion sound were revealed. Auscultation revealed bronchial respiration. Blood count: WBCs - $14 \cdot 10^9/l$, ESR - 35 mm/h. What is the provisional diagnosis?
Correct answer	Right-sided croupous pneumonia
B	Focal right-sided pneumonia
C	Cavernous tuberculosis of the right lung
D	Lung cancer
E	Exudative pleuritis
№	krok 2013
Topic	CARDIOLOGY
Task	A 57-year-old male patient complains of dyspnea on exertion, heaviness in the right hypochondrium and shin edemata towards evening. Objectively: temperature - 38,1°C, HR- 20/min, HR=Ps=92/min, AP- 140/90 mm Hg. There is apparent kyphoscoliosis. In the lungs single dry rales can be auscultated. Heart sounds are muffled, rhythmic. ECG: Rv1+Sv5=15 mm. X-ray picture shows the bulging of pulmonary artery cone, right ventricle enlargement. What is the most likely cause of this condition?
Correct answer	Pulmonary heart
B	Atherosclerotic cardiosclerosis
C	Dilatation cardiomyopathy
D	Mitral stenosis
E	Primary pulmonary hypertension
№	krok 2013
Topic	CARDIOLOGY

Task	A 59-year-old male complains of heart pain, cough, fever up to 38o Three weeks ago he suffered a heart attack. Objectively: Ps- 86/min, rhythmic, blood pressure - 110/70 mm Hg. Auscultation reveals pericardial rub, rales beneath the shoulder blade. Radiography reveals no pathology. Blood count: WBCs - 10 · 10 ⁹ /l, ESR - 35 mm/h. ECG shows no dynamics. It would be most reasonable to administer the drugs of the following pharmaceutical group:
Correct answer	Glucocorticoids
B	Antibiotics
C	Direct anticoagulants
D	Nitrates and nitrites
E	Fibrinolytics
№	krok 2013, 2012
Topic	CARDIOLOGY
Task	A 40-year-old female patient complains of headache, dizziness, muscle weakness, occasional cramps in the extremities. She has been taking antihypertensive medications for 10 years. AP- 180/100 mm Hg. Blood potassium - 1,8 millimole/l, sodium - 4,8 millimole/l. In urine: alkaline reaction, the relative density - 1012, protein and sugar are not found, WBCs - 3-4 in the field of vision, RBCs - 12 in the field of vision. Conn's syndrome is suspected. Which drug should be chosen for the treatment of arterial hypertension?
Correct answer	Spirolactone
B	Propanolol
C	Enalapril
D	Hydrochlorothiazide
E	Clonidine
№	krok 2013, 2012, 2011
Topic	HEMATOLOGY

Task	A 27-year-old patient complains of nasal haemorrhages, multiple bruises on the anterior surface of the trunk and extremities, sudden weakness. In blood: Hb- 74 g/l, reticulocytes - 16%, RBCs $2,5 \cdot 10^{12}/l$, platelets - $30 \cdot 10^9/l$, ESR- 25 mm/h. What is the most effective measure for the treatment of thrombocytopenia?
Correct answer	Splenectomy
B	Iron preparations
C	Hemotransfusion
D	Cytostatics
E	Vitamin B12
№	krok 2013, 2012
Topic	EMERGENCY CONDITIONS
Task	A 53-year-old female patient complains of cardiac pain and rhythm intermissions. She has experienced these presentations since childhood. The patient's father had a history of cardiac arrhythmias. Objectively: the patient is in grave condition, Ps- 220 bpm, AP- 80/60 mm Hg. ECG results: heart rate - 215/min, extension and deformation of QRS complex accompanied by atrioventricular dissociation; positive P wave. Some time later heart rate reduced down to 45/min, there was a complete dissociation of P wave and QRST complex. Which of the following will be the most effective treatment?
Correct answer	Implantation of the artificial pacemaker
B	β -adrenoreceptor blocking agents
C	Cholinolytics
D	Calcium antagonists
E	Cardiac glycosides
№	krok 2013, 2012, 2011
Topic	PULMONOLOGY

Task	A 49-year-old patient complains of dyspnea, cough. There are no sputum discharges. He has repeatedly used salbutamol and intal but with no effect. Objectively: he is only able to sit while leaning on the table. Cyanosis of face, acrocyanosis are present. Breathing is shallow, laboured, in some parts it cannot be auscultated; there are diffuse rales, expiration is significantly prolonged. Heart sounds are muffled, tachycardia is present. Ps - 112/min, AP- 110/70 mm Hg. Liver is located near the costal arch. There are no peripheral edemata. What is your provisional diagnosis?
Correct answer	Status asthmaticus
B	Chronic obstructive bronchitis
C	Bronchiale asthma, moderate gravity
D	Foreign object aspiration
E	Cardiac asthma
№	krok 2013
Topic	GASTROENTEROLOGY
Task	A 24-year-old female patient complains of pain in the right hypochondrium that is getting worse after taking meals; nausea, fever up to 37,7oC, icteric skin, pain in the large joints. These presentations have been observed for 8 months. Objectively: hepatosplenomegaly. Blood test results: ESR- 47 mm/h, total bilirubin - 86,1 mmol/l, direct bilirubin - 42,3 mmol/l. Total protein - 62 g/l, albumins - 40%, globulins - 60%, gamma globulins - 38%. Viral hepatitis markers were not detected. The antibodies to smooth muscle cells are present. On ultrasound the portal vein diameter was of 1 cm. What is the most likely diagnosis?
Correct answer	Autoimmune hepatitis
B	Primary biliary cirrhosis
C	Gilbert's syndrome
D	Cholangiogenic hepatitis
E	Hemachromatosis
№	krok 2013
Topic	PULMONOLOGY

Task	A 26-year-old patient with left lower lobe pneumonia experiences an acute chest pain on the left during coughing. Objectively: diffuse cyanosis, extension of the left side of chest. Percussion reveals high tympanitis. Auscultation reveals no respiratory murmurs above the left side of chest. There is a deviation of the right cardiac border towards the midclavicular line. What examination will be the most informative?
Correct answer	X-Ray
B	Bronchoscopy
C	Bronchography
D	Pneumotachometry
E	Spirography
№	krok 2013
Topic	EMERGENCY CONDITIONS
Task	After myocardial infarction, a 50-year-old patient had an attack of asthma. Objectively: bubbling breathing with frequency of 32/min, cough with a lot of pink frothy sputum, acrocyanosis, swelling of the neck veins. Ps- 108/min, AP- 150/100 mm Hg. Heart sounds are muffled. Mixed moist rales can be auscultated above the entire lung surface. What drug would be most effective in this situation?
Correct answer	Nitroglycerin intravenously
B	Pentamin intravenously
C	Strophanthin intravenously
D	Dopamine intravenously
E	Aminophylline intravenously
№	krok 2013
Topic	GASTROENTEROLOGY
Task	A 57-year-old female complains of having a sensation of esophageal compression, palpitation, difficult breathing during eating solid food, occasional vomiting with a full mouth, "wet pillow" sign at night for the last 6 months. Objectively: body temperature - 39°C, height - 168 cm, weight - 72 kg, Ps- 76/min, AP- 120/80 mm Hg. X-ray revealed a considerable dilation of esophagus and its constriction in the cardiac part. What pathology is most likely to have caused dysphagia in this patient?

Correct answer	Achalasia cardiae
B	Primary esophagism
C	Hiatal hernia
D	Esophageal carcinoma
E	Reflux esophagitis
№	krok 2013
Topic	EMERGENCY CONDITIONS
Task	On the first day after a surgery for diffuse toxic goiter a patient developed difficulty breathing, cold sweats, weakness. Objectively: pale skin, body temperature - 38,5oC, RR - 25/min, Ps- 110/min, AP90/60 mm Hg. What early postoperative complication occurred in the patient?
Correct answer	Thyrotoxic crisis
B	Hypothyroid crisis
C	Postoperative tetany
D	Acute thyroiditis
E	Compression of the trachea by the hematoma
№	krok 2013
Topic	ENDOCRINOLOGY
Task	A 45-year-old female patient complaining of general weakness, nausea and vomiting has been delivered to a hospital by the ambulance. Recently there has been a lack of appetite, weight loss. Objectively: hyperpigmentation of skin, blood pressure at the rate of 70/45 mm Hg, bradycardia. Additional studies revealed the reduced concentration of aldosterone and cortisol in blood, decreased excretion of 17-ketosteroids and 17-oxyketosteroids in the urine, hyponatremia, chloropenia, hypokalemia. What therapeutic measures are required?
Correct answer	To administer glucocorticoids, mineralocorticoids, and a diet with a high content of cooking salt
B	To prescribe a diet with a high content of cooking salt
C	To administer prednisolone
D	To administer aldosterone

E	To administer insulin
№	krok 2013, 2012
Topic	ENDOCRINOLOGY
Task	A 40-year-old female patient complains of having a bulge on the anterior surface of neck for 5 years. Objectively: Ps- 72 bpm, arterial pressure - 110/70 mm Hg, in the right lobe of thyroid gland palpation reveals a mobile 4x2 cm node, the left lobe is not palpable, the basal metabolic rate is 6%. What is the most likely diagnosis?
Correct answer	Nodular euthyroid goiter
B	Nodular hyperthyroid goiter
C	Riedel's thyroiditis
D	Mixed euthyroid goiter
E	The median cervical cyst
№	krok 2013
Topic	CARDIOLOGY. EMERGENCY CONDITIONS
Task	A week ago a 65-year-old patient suffered an acute myocardial infarction, his general condition deteriorated: he complains of dyspnea at rest, pronounced weakness. Objectively: edema of the lower extremities, ascites is present. Heart borders are extended, paradoxical pulse is 2 cm displaced from the apex beat to the left. What is the most likely diagnosis?
Correct answer	Acute cardiac aneurysm
B	Recurrent myocardial infarction
C	Acute pericarditis
D	Cardiosclerotic aneurysm
E	Pulmonary embolism
№	krok 2013
Topic	HEMATOLOGY

Task	A 22-year-old vegetarian patient with signs of malnutrition consulted a doctor about smell and taste distortion, angular stomatitis. Objectively: expressively blue sclerae. The patient was diagnosed with iron deficiency anemia. What is the dominating clinical syndrome?
Correct answer	Sideropenic
B	Anaemic
C	Haemologic
D	Haemolytic
E	Myelodysplastic
№	krok 2013
Topic	CARDIOLOGY
Task	A 63-year-old patient with persistent atrial fibrillation complains of moderate dyspnea. Objectively: peripheral edemata are absent, vesicular respirationis present, heart rate - 72/min, AP- 140/90 mm Hg. What combination of drugs will be most useful in the secondary prevention of heart failure?
Correct answer	Beta-blockers, ACE inhibitors
B	Beta-blockers, cardiac glycosides
C	Cardiac glycosides, diuretics
D	Cardiac glycosides, ACE inhibitors
E	Diuretics, beta-blockers
№	krok 2013
Topic	CARDIOLOGY
Task	A 70-year-old patient consulted a doctor about arrhythmic cardiac activity, dyspnea. Objectively: AP- 150/90 mm Hg, extrasystole arrhythmia (10-12 beats per minute), left ventricular systolic dysfunction (ejection fraction at the rate of 42%). Which of antiarrhythmic drugs should be administered as initial therapy in this case?
Correct answer	Amiodarone
B	Flecainide
C	Encainide

D	Moracizine
E	Digoxin
№	krok 2013
Topic	GASTROENTEROLOGY
Task	A 28-year-old male patient complains of regurgitation, cough and heartburn that occurs every day after a meal, when bending forward or lying down. These problems have been observed for 4 years. Objective status and laboratory values are normal. FEGDS revealed endoesophagitis. What is the leading factor in the development of this disease?
Correct answer	Failure of the inferior esophageal sphincter
B	Hypersecretion of hydrochloric acid
C	Duodeno-gastric reflux
D	Hypergastrinemia
E	Helicobacter pylori infection
№	krok 2012
Topic	PULMONOLOGY
Task	4 days ago a 32-year-old patient caught a cold: he presented with sore throat, fatigue. The next morning he felt worse, developed dry cough, body temperature rose up to 38,2oC, there appeared muco-purulent expectoration. Percussion revealed vesicular resonance over lungs, vesicular breathing weakened below the angle of the right scapula, fine sonorous and sibilant wheezes. What is the most likely diagnosis?
Correct answer	Focal right-sided pneumonia
B	Bronchial asthma
C	Acute bronchitis
D	Pulmonary carcinoma
E	Pulmonary gangrene
№	krok 2012, 2008
Topic	GASTROENTEROLOGY

Task	During an operation for presumed appendicitis the appendix was found to be normal; however, the terminal ileum is evidently thickened and feels rubbery, its serosa is covered with grayish-white exudate, and several loops of apparently normal small intestine are adherent to it. The most likely diagnosis is:
Correct answer	Crohn's disease of the terminal ileum
B	Perforated Meckel's diverticulum
C	Ulcerative colitis
D	Ileocecal tuberculosis
E	Acute ileitis
№	krok 2012
Topic	RHEUMATOLOGY
Task	A 35-year-old patient complains about pain and morning stiffness of hand joints and temporomandibular joints that lasts over 30 minutes. She has had these symptoms for 2 years. Objectively: edema of proximal interphalangeal digital joints and limited motions of joints. What examination should be administered?
Correct answer	Roentgenography of hands
B	Complete blood count
C	Rose-Waaler reaction
D	Immunogram
E	Proteinogram
№	krok 2012
Topic	EMERGENCY CONDITIONS
Task	A 54-year-old drowned man was rescued from the water and delivered to the shore. Objectively: the man is unconscious, pale, breathing cannot be auscultated, pulse is thready. Resuscitation measures allowed to save the patient. What complications may develop in the near future?
Correct answer	Pulmonary edema
B	Respiratory arrest
C	Encephalopathy
D	Cardiac arrest

E	Bronchospasm
№	krok 2012, 2011
Topic	CARDIOLOGY
Task	A 56-year-old scientist experiences constricting retrosternal pain several times a day while walking for 100-150 m. The pain lasts for up to 10 minutes and can be relieved by nitroglycerine. Objectively: the patient is overweight, heart borders exhibit no abnormalities, heart sounds are rhythmic, Ps- 78 bpm, AP- 130/80 mm Hg. ECG contains low amplitude of T wave in V4–5. What disease might be suspected?
Correct answer	Stable FC III stenocardia
B	Instable stenocardia
C	Stable FC I stenocardia
D	Stable FC II stenocardia
E	Stable FC IV stenocardia
№	krok 2012, 2011, 2010
Topic	GASTROENTEROLOGY
Task	In autumn a 25-year-old patient developed stomach ache arising 1,5-2 hours after having meals and at night. He complains of pyrosis and constipation. The pain is getting worse after consuming spicy, salty and sour food, it can be relieved by means of soda and hot-water bag. The patient has been suffering from this disease for a year. Objectively: furred moist tongue. Abdomen palpation reveals epigastric pain on the right, resistance of abdominal muscles in the same region. What is the most likely diagnosis?
Correct answer	Duodenal ulcer
B	Chronic cholecystitis
C	Diaphragmatic hernia
D	Stomach ulcer
E	Chronic pancreatitis
№	krok 2012, 2011, 2010
Topic	RHEUMATOLOGY

Task	A 32-year-old male patient has been suffering from pain in the sacrum and coxofemoral joints, painfulness and stiffness in the lumbar spine for a year. ESR56 mm/h. Roentgenography revealed symptoms of bilateral sacroileitis. The patient is the carrier of HLA B27 antigen. What is the most likely diagnosis?
Correct answer	Ankylosing spondylitis
B	Coxarthrosis
C	Rheumatoid arthritis
D	Reiter's disease
E	Spondylosis
№	krok 2012, 2011, 2010, 2009
Topic	ENDOCRINOLOGY
Task	A 58-year-old female patient complains about periodical headache, dizziness and ear noise. She has been suffering from diabetes mellitus for 15 years. Objectively: heart sounds are rhythmic, heart rate is 76/min, there is diastolic shock above aorta, AP is 180/110 mm Hg. In urine: OD- 1,014. Daily loss of protein with urine is 1,5 g. What drug should be chosen for treatment of arterial hypertension?
Correct answer	Inhibitor of angiotensin converting enzyme
B	β -blocker
C	Calcium channel antagonist
D	Thiazide diuretic
E	α -blocker
№	krok 2012
Topic	EMERGENCY CONDITIONS
Task	A 5-year-old child had an attack of palpitation with nausea, dizziness, generalized fatigue. On ECG: tachycardia with heartbeat rate of 220/min. Ventricle complexes are deformed and widened. P wave is absent. What medication is to be prescribed to provide first aid?
Correct answer	Lydocain
B	Isoptin
C	Seduxen

D	Novocainamides
E	Strophantin
№	krok 2012
Topic	CARDIOLOGY
Task	A 57-year-old man complains of shortness of breath, swelling on shanks, irregularity in cardiac work, pain in the left chest half with irradiation to the left scapula. Treatment is uineffective. On physical exam: heart's sounds are diminished, soft systolic murmur on the apex. Ps - 100/min, arrhythmical, BP - 115/75 mm Hg. The liver is +2 cm, painful. Roentgenoscopy: enlargement of heart shadow to all sides, pulsation is weak. Electrocardiogram (ECG): leftventricled extrasystolia, decreased voltage. What method of investigation is necessary to do to determine the diagnosis?
Correct answer	Echocardiography
B	Veloergometria
C	X-ray kymography
D	ECG in the dynamics
E	Coronarography
№	krok 2012, 2011
Topic	GASTROENTEROLOGY
Task	4 hours after having meals a patient with signs of malnutrition and steatorrhea experiences stomach pain, especially above navel and to the left of it. Diarrheas take turns with constipation lasting up to 3-5 days. Palpation reveals moderate painfulness in the choledochopancreatic region. The amylase rate in blood is stable. X-ray reveals some calcifications located above navel. What is the most likely diagnosis?
Correct answer	Chronic pancreatitis
B	Chronic gastroduodenitis
C	Duodenal ulcer
D	Zollinger-Ellison syndrome
E	Chronic calculous cholecystitis
№	krok 2012

Topic	CARDIOLOGY
Task	A 54-year-old patient complains of weakness, weight loss despite the unchanged appetite, frequent urination, skin itch for six months. Some time ago the patient underwent treatment for furunculosis. She hasn't been examined recently. Objectively: malnutrition, dry skin with signs of scratching. Small lymph nodes can be palpated in the axillary regions. Changes in the internal organs are absent. What testing must be administered in the first place?
Correct answer	Blood sugar test on an empty stomach
B	Complete blood count
C	Endoscopy of stomach
D	Lymph node biopsy
E	Blood sterility testing
№	krok 2012
Topic	CARDIOLOGY
Task	A 67-year-old male complains of dyspnea on exertion, attacks of retrosternal pain, dizziness. He has no history of rheumatism. Objectively: pale skin, acrocyanosis. There are rales in the lower parts of lungs. There is systolic thrill in the II intercostal space on the right, coarse systolic murmur conducted to the vessels of neck. AP- 130/90 mm Hg, heart rate - 90/min, regular rhythm. The liver extends 5 cm under the edge of costal arch, shin edemata are present. Specify the assumed valvular defect:
Correct answer	Aortic stenosis
B	Pulmonary artery stenosis
C	Mitral insufficiency
D	Ventricular septal defect
E	Tricuspid regurgitation
№	krok 2012
Topic	GASTROENTEROLOGY

Task	A 51-year-old female patient complains of frequent defecation and liquid blood-streaked stools with mucus admixtures, diffuse pain in the inferolateral abdomen, 6 kg weight loss over the previous month. Objectively: body temperature - 37,4oC, malnutrition, skin is pale and dry. Abdomen is soft, sigmoid is painful and spasmodic, makes a rumbling sound. Liver is dense, painful, extends 3 cm below the costal margin. What is the most likely diagnosis?
Correct answer	Non-specific ulcerative colitis
B	Bacillary dysentery
C	Sprue
D	Intestinal enzymopathy
E	Helminthic invasion
№	krok 2012
Topic	GASTROENTEROLOGY
Task	A 54-year-old female patient has been admitted to a hospital 12 days after the beginning of acute pancreatitis. Objectively: the patient is in grave condition. The body temperature is hectic. Ps - 112 bpm. The abdomen is swollen. Epigastrium palpation reveals a very painful infiltration falling in the localization of pancreas. Abdominal cavity contains fluid. There is an edema of the left lumbar region. In blood: WBCs - 18·10 ⁹ /l. What is the required tactics of the patient's treatment?
Correct answer	Surgical treatment
B	Further conservative treatment
C	Peritoneal dialysis
D	Increase in antienzymes
E	Massive antibacterial therapy
№	krok 2012
Topic	CARDIOLOGY
Task	An 18-year-old patient presents no problems. Percussion reveals that heart borders are displaced to the right and left by 1 cm, there is a coarse systolic murmur with its epicenter within the 4th intercostal space on the left. What is the most informative examination to confirm the clinical diagnosis?

Correct answer	Ventriculography
B	ECG
C	PCG
D	Echocardiography
E	Polycardiography
№	krok 2012, 2010
Topic	PULMONOLOGY
Task	A 26-year-old male patient complains of piercing pain during breathing, cough, dyspnea. Objectively: to- 37,3oC, respiration rate - 19/min, heart rate = Ps92/min; AP- 120/80 mm Hg. Vesicular respiration. In the inferolateral parts of chest auscultation in both inspiration and expiration phase revealed noise that was getting stronger at phonendoscope pressing and can be still heard after cough. ECG showed no pathological changes. What is the most likely giagnosis?
Correct answer	Acute pleuritis
B	Intercostal neuralgia
C	Subcutaneous emphysema
D	Spontaneous pneumothorax
E	Pericarditis sicca
№	krok 2012
Topic	HEMATOLOGY
Task	A 42-year-old patient with acute haemorrhage and class III blood loss underwent blood transfusion and got 1,8 l of preserved blood and erythromass of the same group and Rh. After the transfusion the patient complained of unpleasant retrosternal sensations, his arterial pressure dropped to 100/60 mm Hg, there appeared convulsions. Blood serum calcium was at the rate of 1,7 millimole/liter. What is the mechanism of this complication development?
Correct answer	Citrate binds calcium ions, hypocalcemia impairs myocardial function
B	Citrate is cardiotoxic and nephrotoxic
C	Citrate causes the development of metabolic acidosis

D	The increased citrate rate causes convulsions
E	Citrate binds potassium causing severe hypokalemia
№	krok 2012, 2011, 2010
Topic	RHEUMATOLOGY
Task	A 58-year-old patient complains about sensation of numbness, sudden paleness of II-IV fingers, muscle rigidity, intermittent pulse. The patient presents also with polyarthralgia, dysphagia, constipations. The patient's face is masklike, solid edema of hands is present. The heart is enlarged; auscultation revealed dry rales in lungs. In blood: ESR- 20 mm/h, crude protein - 85/l, γ globulines - 25%. What is the most likely diagnosis?
Correct answer	Systemic scleroderma
B	Dermatomyositis
C	Rheumatoid arthritis
D	Systemic lupus erythematosus
E	Raynaud's disease
№	krok 2012
Topic	GASTROENTEROLOGY
Task	A 35-year-old patient complains of heartburn, sour eructation, burning, compressing retrosternal pain and pain along the esophagus rising during forward bending of body. The patient hasn't been examined, takes Almagel on his own initiative, claims to feel better after its taking. Make a provisional diagnosis:
Correct answer	Gastroesophageal reflux disease
B	Functional dyspepsia
C	Cardiospasm
D	Gastric ulcer
E	Duodenal ulcer
№	krok 2012, 2011, 2010
Topic	EMERGENCY CONDITIONS

Task	A hospital admitted a patient with coarse breathing (obstructed inspiration), skin cyanosis, tachycardia and arterial hypertension. He has a history of bronchial asthma. An hour ago he was having salbutamol inhalation and forgot to remove a cap that was aspired while taking a deep breath. What measures should the doctor take?
Correct answer	To perform the Heimlich manoever
B	To perform conicotomy immediately
C	To send for an anesthesiologist and wait for him
D	To use an inhalation of β 2-adrenoceptor agonist
E	To make a subcutaneous injection of dexamethasone
№	krok 2012, 2010, 2009
Topic	HEMATOLOGY
Task	On the second day after preventive vaccination a 2-year-old boy presented with abdominal pain without clear localization, body temperature rose up to 38oC On the third day the child got red papular haemorrhagic eruption on the extensor surfaces of limbs and around the joints. Knee joints were edematic and slightly painful. Examination of other organs and systems revealed no pathological changes. What is the most likely diagnosis?
Correct answer	Haemorrhagic vasculitis
B	Thrombocytopenic purpura
C	Meningococemia
D	Urticaria
E	DIC syndrome
№	krok 2012
Topic	CARDIOLOGY
Task	A 59-year-old male patient with essential hypertension of stage II is registered with the dispensary department of a polyclinic. The patient regularly takes ACE inhibitors and calcium antagonists. How often should a therapist examine this patient (except for exacerbation periods)?
Correct answer	Every 3 months

B	Every 6 months
C	Every 4 months
D	Once a year
E	Every 9 months
№	krok 2012
Topic	HEMATOLOGY
Task	A 22-year-old vegetarian patient with signs of malnutrition consulted a doctor about smell and taste distortion, angular stomatitis. Objectively: marked blue sclerae. The patient was diagnosed with iron deficiency anemia. What is the dominating clinical syndrome?
Correct answer	Sideropenic
B	Anaemic
C	Haemologic
D	Haemolytic
E	Myelodysplastic
№	krok 2012
Topic	HEMATOLOGY
Task	A 42-year-old female lives in the basement, is unemployed, undernourished. She complains of having general weakness, hair loss, brittle nails for six months, likes to eat chalk. Objectively: the patient is emaciated, pale, has dry skin. Peripheral lymph nodes are not enlarged. Liver is +1,5 cm. In blood: RBCs - $1,8 \cdot 10^{12}/l$, Hb- 62 g/l, colour index - 0,78, reticulocytes - 0,50/00, ESR- 18 mm/h. Leukogram exhibits no pathology. What is a provisional diagnosis?
Correct answer	Nutritional iron deficiency anaemia
B	Chronic hepatitis
C	B12-deficiency anaemia
D	Acquired haemolytic anaemia
E	Congenital haemolytic anaemia
№	krok 2012

Topic	CARDIOLOGY
Task	A 20-year-old patient complains of breath shortness, continuous dull heart pain, irritability. Objectively: general condition is satisfactory, the pulse is labile, AP- 130/60 mm Hg. ECG shows repolarization disorder. The patient has been diagnosed with cardiac-type neurocirculatory dystonia. The patient should receive treatment under the following conditions:
Correct answer	Outpatient treatment
B	Inpatient treatment at the therapeutic department
C	Inpatient treatment at the cardiology department
D	Inpatient treatment at the cardiac surgery department
E	Inpatient treatment at the psychiatric department
№	krok 2011
Topic	HEMATOLOGY
Task	A 62-year-old patient complaining of enlargement of cervical, supraclavicular and axillary lymph nodes, subfebrile temperature for the last 3 months has been admitted to a hospital. In blood: WBCs - $64 \cdot 10^9/l$, lymphocytes - 72%. What method of study should be used to specify the diagnosis?
Correct answer	Myelogram
B	Lymphography
C	Lymphoscintigraphy
D	X-rays
E	Thermography
№	krok 2011
Topic	HEMATOLOGY

Task	A 42-year-old patient complains of back pain, darkened urine, general weakness, dizziness that occurred after treating a cold with aspirin and ampicillin. Objectively: the patient is pale, with subicteric sclerae. HR - 98 bpm. Liver - +2 cm, spleen - +3 cm. In blood: RBCs - $2,6 \cdot 10^{12}/l$, Hb - 60 g/l, CI - 0,9, WBCs - $9,4 \cdot 10^9/l$, basophils - 0,5%, eosinophils - 3%, stab neutrophils - 6% segmented neutrophils - 58%, lymphocytes - 25%, monocytes - 7%, ESR - 38 mm/hour, reticulocytes - 24%. Total bilirubin - 38 millimole/l. What complication occurred in the patient?
Correct answer	Acquired hemolytic anemia
B	Toxic hepatitis
C	Cholelithiasis
D	Agranulocytosis
E	Paroxysmal nocturnal hemoglobinuria
№	krok 2011
Topic	CARDIOLOGY
Task	A 28-year-old patient complains of periodic compressing heart pain. His brother died at the age of 34 from a cardiac disease with similar symptoms. Objectively: the patients skin is pale. Heart borders display no significant deviations. Heart sounds are loud, there is a systolic murmur above all the points with a peak above the aorta. Echocardiography reveals thickening of the interventricular septum in the basal parts, reduction of left ventricular cavity. What drug should be administered in order to prevent the disease progression?
Correct answer	Metoprolol
B	Digoxin
C	Nitroglycerin
D	Captopril
E	Furosemide
№	krok 2011
Topic	NEPHROLOGY

Task	2 weeks after recovering from angina a 29-year-old patient noticed face edemata, weakness, decreased work performance. There was gradual progress of dyspnea, edemata of the lower extremities, lumbar spine. Objectively: pale skin, weakening of the heart sounds, anasarca. AP- 160/100 mm Hg. In urine: the relative density 1021, protein - 5 g/l, erythrocytes - 20-30 in the field of vision, hyaline cylinders 4-6 in the field of vision. What is the most likely diagnosis?
Correct answer	Acute glomerulonephritis
B	Essential hypertension
C	Acute pyelonephritis
D	Infectious allergic myocarditis
E	Myxedema
№	krok 2011
Topic	CARDIOLOGY
Task	A 62-year-old patient has been delivered to the surgical department with complaints of sudden pain in the umbilical region irradiating to the back and groin, which was accompanied by a syncope. Objectively: the patient is in grave condition, umbilical region is tender on palpation, bowel sounds are diminished. AP drop is present. USI reveals: free fluid in the abdomen, thickening of the wall of the abdominal aorta. The most likely diagnosis is:
Correct answer	Rupture of abdominal aortic aneurism
B	Stomach ulcer perforation
C	Acute pancreatitis
D	Peritonitis
E	Acute appendicitis
№	krok 2011
Topic	NEPHROLOGY

Task	A 54-year-old patient has an over 20-year history of femoral osteomyelitis. Over the last month she has developed progressing edemata of the lower extremities. Urine test reveals: proteinuria at the rate of 6,6 g/l; in blood: dysproteinemia in form of hypoalbuminemia, increase in α_2 and γ -globulin rate, ESR - 50 mm/h. What is the most likely diagnosis?
Correct answer	Secondary renal amyloidosis
B	Acute glomerulonephritis
C	Myelomatosis
D	Chronic glomerulonephritis
E	Systemic lupus erythematosus
№	krok 2011
Topic	EMERGENCY CONDITIONS
Task	A 62-year-old male has been hospitalized in the intensive care unit with a continuous attack of retrosternal pain that cannot be relieved by nitroglycerin. Objectively: AP- 80/60 mm Hg, heart rate - 106/min, breathing rate - 22/min. Heart sounds are muffled, a gallop rhythm is present. How would you explain the AP drop?
Correct answer	Reduction in cardiac output
B	Reduction in peripheral resistance
C	Blood depositing in the abdominal cavity
D	Adrenergic receptor block
E	Internal haemorrhage
№	krok 2011
Topic	NEPHROLOGY

Task	A 54-year-old male patient complains of aching pain in the lumbar region, that is getting worse after standing in an upright position, physical exercise, supercooling. The patient also reports of experiencing weakness in the afternoon. Pain in the lumbar region, said about 10 years old. Objectively: pale skin, to- 37,2oC, AP- 180/100 mm Hg, minor costovertebral angle tenderness (Pasternatsky symptom). In blood: RBCs - $3,5 \cdot 10^{12}/l$, WBCs - $6,5 \cdot 10^9/l$, ESR 22 mm/h. In urine: the relative density 1010, leukocytes - 12-15 in the field of vision, erythrocytes - 2-3 in the field of vision. Urine bacterial count - 100000 in 1 ml. What is the most likely diagnosis?
Correct answer	Chronic pyelonephritis
B	Nephrolithiasis
C	Polycystic renal disease
D	Chronic glomerulonephritis
E	Amyloidosis
№	krok 2011
Topic	CARDIOLOGY
Task	A 49-year-old male patient complains of dyspnea of combined nature, cough, shin edemata, abdomen enlargement due to ascites. He has a 20-year history of chronic bronchitis. For the last 3 years he has been disabled (group II) because of cardiac changes. Objectively: mixed cyanosis, edemata. Ps - 92/min, rhythmic, AP - 120/70 mm Hg, respiration rate - 24/min. There is accentuation of the second sound above the pulmonary artery. Auscultation reveals the box resonance above the lungs. There are also dry rales over the entire surface of lungs. What is the mechanism of heart changes development in this patient?
Correct answer	Euler-Liljestrand reflex
B	Kitaev's reflex
C	Bainbridge reflex
D	Cardiovascular reflex
E	Respiratory reflex
№	krok 2011
Topic	GASTROENTEROLOGY

Task	A 43-year-old female patient complains of unstable defecation with frequent constipations, abdominal swelling, headache, sleep disturbance. Body weight is unchanged. What disease are these clinical presentations typical for?
Correct answer	Irritable colon syndrome
B	Chronic enteritis
C	Chronic pancreatitis
D	Chronic atrophic gastritis
E	Colorectal cancer
№	krok 2011
Topic	ENDOCRINOLOGY
Task	A 47-year-old woman underwent a thyroid gland resection on account of nodular euthyroid goiter. What preparations are most likely to prevent the disease recurrence?
Correct answer	Thyroid hormones
B	Mercazolil
C	Thyrotropin
D	Antistruminum (potassium iodide)
E	Radioactive iodine
№	krok 2011
Topic	RHEUMATOLOGY
Task	A patient has an over a year-old history of fast progressive rheumatoid arthritis. X-raying confirms presence of marginal erosions. What basic drug would be the most appropriate in this case?
Correct answer	Methotrexate
B	Chloroquine
C	Prednisolone
D	Diclofenac sodium
E	Aspirin
№	krok 2011

Topic	GASTROENTEROLOGY
Task	A 23-year-old patient complains of a dull ache, sensation of heaviness and distention in the epigastrium immediately after meals, foul-smelling eructation; dry mouth, empty stomach nausea, diarrhea. Objectively: the skin is pale, the patient is of thin build. Abdomen is soft on palpation, there is epigastric pain. The liver does not extend beyond the costal arch. In blood: Hb - 110 g/l, RBCs - $3,4 \cdot 10^{12}/l$, WBC count is normal. ESR - 16 mm/h. What is the most informative study that will allow make a diagnosis?
Correct answer	Esophageal gastroduodenoscopy
B	X-ray of digestion organs
C	Study of gastric juice
D	pH-metry
E	Duodenal probing
№	krok 2011
Topic	CARDIOLOGY
Task	A 60-year-old patient has been admitted to a hospital with complaints of dyspnea, tightness in the right subcostal area, abdomen enlargement. These presentations have been progressing for a year. Heart auscultation reveals presystolic gallop rhythm. Objectively: swelling of the neck veins, ascites, palpable liver and spleen. What disease requires differential diagnostics?
Correct answer	Constrictive pericarditis
B	Hepatocirrhosis
C	Lung cancer with invasion to the pleura
D	Chronic pulmonary heart
E	Pulmonary embolism
№	krok 2011
Topic	NEPHROLOGY

Task	A 28-year-old woman has a 12-year history of chronic glomerulonephritis with latent course. Over the past six months she has developed general weakness, loss of appetite, low work performance, nausea. The patient complains of headache, pain in the joints. On examination: anemia, blood urea - 34,5 millimole/l, blood creatinine - 0,766 millimole/l, hyperkalemia. What complication has developed?
Correct answer	Chronic renal insufficiency
B	Acute renal insufficiency
C	Nephrotic syndrome
D	Renal amyloidosis
E	Pyelonephritis
№	krok 2011
Topic	PULMONOLOGY
Task	Topographic percussion of lungs in a patient who got a serious job-related barotrauma revealed that the lower lungs borders were located one rib below normal, there was a significant increase in both lungs height and Kronig's isthmus. What disease should be suspected in the first place?
Correct answer	Pulmonary emphysema
B	Exudative pleuritis
C	Chronic bronchitis
D	Bronchial asthma
E	Pneumothorax
№	krok 2011
Topic	ENDOCRINOLOGY
Task	A 38-year-old woman experiences episodic increases in arterial pressure up to 240/120 mm Hg, which is accompanied by nausea, vomiting, tachycardia, increased sweating, hyperglycemia. The attack is usually followed by the excessive urination. Renal sonography reveals an additional formation adjacent to the upper pole of the right kidney and possibly belonging to the adrenal gland. What laboratory test will allow to clarify the diagnosis?
Correct answer	Determination of urinary excretion of catecholamines and vanillylmandelic acid

B	Blood test for insulin and C-peptide
C	Estimation of glomerular filtration rate by measuring endogenous creatinine clearance
D	Blood test for thyroxine and thyrotrophic hormone
E	Blood test for renin level
№	krok 2011
Topic	RHEUMATOLOGY
Task	A 32-year-old patient has a 3-year history of asthma attacks, that can be hardly stopped with berotec. Over a few last months he has experienced pain in the joints and sensitivity disorder of legs and feet skin. Ps - 80/min, AP - 210/100 mm Hg. In blood: eosinophilia at the rate of 15%. What disease can be suspected in this case?
Correct answer	Periarteritis nodosa
B	Systemic lupus erythematosus
C	Systemic scleroderma
D	Dermatomyositis
E	Wegener's disease
№	krok 2011
Topic	CARDIOLOGY
Task	A 46-year-old patient complains of sudden palpitation, which is accompanied by pulsation in the neck and head, fear, nausea. The palpitation lasts for 15-20 minutes and is over after straining when holding her breath. What kind of cardiac disorder may be suspected?
Correct answer	An attack of supraventricular paroxysmal tachycardia
B	An attack of ventricular paroxysmal tachycardia
C	An attack of atrial flutter
D	An attack of ciliary arrhythmia
E	An attack of extrasystolic arrhythmia
№	krok 2011
Topic	ENDOCRINOLOGY

Task	A 58-year-old patient has a 3-year history diabetes mellitus type II. He has been keeping to a diet and regularly taking glyburide. He has been delivered to a hospital on an emergency basis for acute abdomen. Objectively: the patient is of supernutrition type. The skin is dry. In the lungs vesicular breathing can be auscultated. Heart sounds are regular, 90/min. AP- 130/70 mm Hg. The symptom of "wooden belly" is visible. Blood sugar - 9,8 millimole/l. The patient has indication for laparotomy. What is the most appropriate way of further treatment of diabetes?
Correct answer	To administer short insulin
B	To continue taking glyburide
C	To administer Semilong to be taken in the morning and insulin - in the evening
D	To administer 1 tablet of Glurenorm three times a day
E	To administer 1 tablet of Maninil three times a day
№	krok 2011
Topic	RHEUMATOLOGY
Task	A 45-year-old patient complains of some painless nodular elements tending to peripheral growth and fusion. He has a 2-year history of this disease. Aggravation takes place mainly in spring. In anamnesis: the patient's father had similar skin lesions. Objectively: pathological elements look like guttate and nummular nodules, plaques covered with white scales. What is your provisional diagnosis?
Correct answer	Psoriasis
B	Lichen ruber planus
C	Neurodermitis
D	Pityriasis rosea
E	Seborrheic eczema
№	krok 2011
Topic	GASTROENTEROLOGY
Task	A 42-year-old female patient suffers from micronodular cryptogenic cirrhosis. Over the last week her condition has deteriorated: there appeared convulsions, mental confusion, increased jaundice. What study may explain such aggravation?

Correct answer	Determination of serum ammonia
B	Determination of cholesterol ethers
C	Determination of alpha-phetoprotein rate
D	Determination of ALAT and ASAT
E	Determination of alkaline phosphatase rate
№	krok 2011
Topic	NEPHROLOGY
Task	A 24-years-old patient has chronic glomerulonephritis. Urine test reveals the following: the relative density is 1010, protein - 1,65 g/l, RBCs - 5-7 in the field of vision, WBCs - 2-3 in the field of vision. Blood creatinine - 0,350 millimole/l. Serum sodium - 148 millimole/l. What is the main reason for hyperazotemia in this patient?
Correct answer	Reduction of glomerular filtration rate
B	Reduction of tubular reabsorption rate
C	Increased proteinuria
D	Reduction of renal blood flow
E	Sodium retention in the organism
№	krok 2011
Topic	RHEUMATOLOGY
Task	As a result of prolonged exposure to the sun a 20-year-old patient has developed low-grade fever, pain and swelling in the knee and ankle joints, erythema on her face and nose bridge, leukopenia and accelerated ESR. She has been provisionally diagnosed with systemic lupus erythematosus. What pathognomonic laboratory data may confirm this diagnosis?
Correct answer	Antinuclear factor
B	Accelerated ESR
C	C-reactive protein
D	Anaemia
E	Lymphocytosis

№	krok 2011
Topic	CARDIOLOGY
Task	A 40-year-old female patient complain of headache, dizziness, muscle weakness, sometimes - cramps in the extremities. She has been taking antihypertensive medications for 10 years. AP- 180/100 mm Hg. Blood potassium - 1,8 millimole/l, sodium - 4,8 millimole/l. In urine: alkaline reaction, the relative density - 1012, protein and sugar are not found, WBCs - 3-4 in the field of vision, RBCs - 12 in the field of vision. Conn's syndrome is suspected. Which drug should be chosen for the treatment of arterial hypertension?
Correct answer	Spirolactone
B	Propanolol
C	Enalapril
D	Hydrochlorothiazide
E	Clonidine
№	krok 2011
Topic	CARDIOLOGY
Task	A 53-year-old woman complained of cardiac pain and rhythm intermissions. She had experienced these presentations since childhood. The patient's father had a history of cardiac arrhythmias. Objectively: the patient was in grave condition, Ps - 220 bpm, AP - 80/60 mm Hg. ECG: heart rate - 215/min, widening and deformation of QRS complex accompanied by atrioventricular dissociation; positive P wave. Some time later heart rate reduced down to 45/min, there was a complete dissociation of P wave and QRST complex. Which of the following will be the most effective treatment?
Correct answer	Implantation of the artificial pacemaker
B	β -adrenoreceptor blocking agents
C	Cholinolytics
D	Calcium antagonists
E	Cardiac glycosides
№	krok 2011
Topic	ENDOCRINOLOGY

Task	On the 2nd day after a surgery for toxic mixed goiter IV a 35-year-old patient complains of heart pain. ECG shows prolonged QT intervals. Chvostek's and Trousseau symptoms cannot be clearly defined. The patient is provisionally diagnosed with latent tetany. What study will allow to confirm the diagnosis?
Correct answer	Determination of blood calcium and phosphor
B	Determination of thyrotropic hormone
C	Determination of potassim
D	Determination of sodium
E	Determination of thyroid hormones
№	krok 2011
Topic	PULMONOLOGY
Task	A 26-year-old patient with left lower lobe pneumonia experiences an acute chest pain on the left during coughing. Objectively: diffuse cyanosis, widening of the left half of chest. Percussion reveals high tympanitis. Auscultation reveals no respiratory murmurs above the left half of chest. There is a deviation of the right cardiac border towards the midclavicular line. What examination will be the most informative?
Correct answer	X-Ray
B	Bronchoscopy
C	Bronchography
D	Pneumotachometry
E	Spirography
№	krok 2011, 2010, 2009
Topic	HEMATOLOGY
Task	A 38-year-old patient complains of inertness, subfebrile temperature, enlargement of lymph nodes, nasal haemorrhages, bone pain. Objectively: the patient's skin and mucous membranes are pale, palpation revealed enlarged painless lymph nodes; sternalgia; liver was enlarged by 2 cm, spleen - by 5 cm, painless. In blood: erythrocytes $2,7 \cdot 10^{12}/l$, Hb- 84 g/l, leukocytes - $58 \cdot 10^9/l$, eosinophils - 1%, stab neutrophils - 2%, segmented neutrophils - 12%, lymphocytes - 83%, lymphoblasts - 2%, smudge cells; ESR- 57 mm/h. What is the most likely diagnosis?

Correct answer	Chronic lymphatic leukemia
B	Chronic myeloleukemia
C	Acute lymphatic leukemia
D	Acute myeloleukemia
E	Lymphogranulomatosis
№	krok 2011
Topic	PULMONOLOGY
Task	A 25-year-old victim of a road accident complains of chest pain, dyspnea. Objectively: the patient is in a grave condition, Ps- 120/min, AP- 90/70 mm Hg. There is pathological mobility of fragments of IIIIV ribs on the right. Percussion reveals a box sound over the right lung, breathing sounds cannot be auscultated on the right. What examination should be administered in the first place?
Correct answer	X-ray of chest organs
B	Bronchoscopy
C	Pleural puncture
D	Thoracoscopy
E	USI of chest organs
№	krok 2011, 2008
Topic	ENDOCRINOLOGY
Task	A 24-year-old patient complains about putting on weight, limosis. Objectively: the patient's constitution is of hypersthenic type, body weight index is 33,2 kg/m ² , waist circumference is 100 cm. Correlation of waist circumference to the thigh circumference is 0,95. What is the most likely diagnosis?
Correct answer	Alimentary constitutional obesity of the I stage, abdominal type
B	Hypothalamic Itsenko-Cushing obesity of the II stage, gynoid type
C	Alimentary constitutional obesity of the III stage, gynoid type
D	Alimentary constitutional obesity of the II stage, abdominal type
E	Hypothalamic Itsenko-Cushing obesity of the I stage, abdominal type
№	krok 2011

Topic	GASTROENTEROLOGY
Task	A 60-year-old patient had eaten too much fatty food, which resulted in sudden pain in the right subcostal area, nausea, bilious vomiting, strong sensation of bitterness in the mouth. Two days later the patient presented with jaundice, dark urine. Objectively: sclera and skin are icteric, abdomen is swollen, liver is increased by 3 cm, soft, painful on palpation, Ortner's, Kehr's, Murphy's, Zakharyin's, MayoRobson's symptoms are positive. Which method should be applied for diagnosis in the first place?
Correct answer	USI of gallbladder and biliary duct
B	Fibrogastroduodenoscopy
C	X-ray of abdominal organs
D	Radionuclide scanning of liver and gallbladder
E	Diagnostic laparotomy
№	krok 2011
Topic	CARDIOLOGY
Task	A 20 year-old patient complains of nosebleeds, numbness of the lower extremities. Objectively: hyperaemia of face, on the upper extremities AP is 160/90 mm Hg, and 80/50 mm Hg on the lower ones. Pulse on the popliteal and pedal arteries is of poor volume, there is systolic murmur over the carotid arteries. What is the most likely diagnosis?
Correct answer	Aorta coarctation
B	Dissecting aortic aneurysm
C	Aortopulmonary window
D	Ventricular septal defect
E	Atrial septal defect
№	krok 2011
Topic	CARDIOLOGY

Task	A 58-year-old patient complains of a headache in the occipital region, nausea, choking, opptentes. The presentations appeared after a physical exertion. Objectively: the patient is excited. Face is hyperemic. Skin is pale. Heart sounds are regular, the 2nd aortic sound is accentuated. AP- 240/120 mm Hg, HR92/min. Auscultation reveals some fine moist rales in the lower parts of the lungs. Liver is not enlarged. ECG shows signs of hypertrophy and left ventricular overload. What is the most likely diagnosis?
Correct answer	Complicated hypertensive crisis
B	Acute myocardial infarction, pulmonary edema
C	Bronchial asthma exacerbation
D	Uncomplicated hypertensive crisis
E	Community-acquired pneumonia
№	krok 2011, 2010
Topic	ENDOCRINOLOGY
Task	A 43-year-old female patient was delivered to the hospital in grave condition. She has a history of Addison's disease. The patient had been regularly taking prednisolone but a week before she stopped taking this drug. Objectively: sopor, skin and visible mucous membranes are pigmented, skin and muscle turgor is decreased. Heart sounds are muffled, rapid. AP- 60/40 mm Hg, heart rate - 96/min. In blood: Na - 120 millimole/l, K - 5,8 millimole/l. Development of this complication is primarily caused by the deficit of the following hormone:
Correct answer	Cortisol
B	Corticotropin (ACTH)
C	Adrenaline
D	Noradrenaline
E	Adrostendion
№	krok 2010
Topic	CARDIOLOGY
Task	The patient with acquired heart failure has diastolic pressure of 0 mm Hg. What heart failure does the child have?

Correct answer	Aortal insufficiency
B	Mitral stenosis
C	Aortal stenosis
D	Mitral insufficiency
E	Rheumatism
№	krok 2010
Topic	PULMONOLOGY
Task	An 18-month-old child was taken to a hospital on the 4-th day of the disease. The disease began acutely with temperature 39, weakness, cough, breathlessness. He is pale, cyanotic, has had febrile temperature for over 3 days. There are crepitative fine bubbling rales on auscultation. Percussion sound is shortened in the right infrascapular region. X-ray picture shows non-homogeneous segment infiltration 810 mm on the right, the intensification of lung pattern. Your diagnosis:
Correct answer	Segmentary pneumonia
B	Grippe
C	Bronchitis
D	Bronchiolitis
E	Interstitial pneumonia
№	krok 2010
Topic	NEPHROLOGY
Task	A man, aged 25, presents with facial edema, moderate back pains, body temperature of 37,5oC, BP- 180/100 mm Hg, hematuria (up to 100 in v/f), proteinuria (2,0 g/l), hyaline casts - 10 in v/f, specific gravity - 1020. The onset of the disease is probably connected with acute tonsillitis 2 weeks ago. The most likely diagnosis is:
Correct answer	Acute glomerulonephritis
B	Acute pyelonephritis
C	Cancer of the kidney
D	Urolithiasis

E	Chronic glomerulonephritis
№	krok 2010
Topic	ENDOCRINOLOGY
Task	A 62-year-old patient has DM-2. Diabetes is being compensated by diet and Maninilum. Patient has to undergo an operation for inguinal hernia. What tactics of hypoglycemic therapy should be chosen?
Correct answer	Prescribe the short-acting insulin
B	Give Glurenorm in place of Maninilum
C	To continue with the current therapy
D	Prescribe the long-acting insulin
E	Prescribe guanylguanidine
№	krok 2010
Topic	GASTROENTEROLOGY
Task	A 20-year-old woman has a 3-4 month history of bloody diarrhoea; stool examination proved negative for ova and parasites; stool cultures negative for clostridium, campylobacter and yersinia; normal small bowel series; edema, hyperemia and ulceration of the rectum and sigmoid colon seen on sigmoidoscopic examination. Select the most likely diagnosis:
Correct answer	Ulcerative colitis
B	Gastroenteritis
C	Carcinoid syndrome
D	Zollinger-Ellison syndrome
E	Granulomatous colitis
№	krok 2010
Topic	GASTROENTEROLOGY
Task	A 36-year-old alcoholic patient has cirrhosis and pancreatic insufficiency due to recurrent pancreatitis. He complains of night blindness, decreased ability to taste food, and dry skin with hyperpigmentation. These complaints suggest deficiency of:
Correct answer	Zinc

B	Copper
C	Selenium
D	Chromium
E	Manganese
№	krok 2010
Topic	EMERGENCY CONDITIONS
Task	A 45-year-old male patient was admitted to the intensive care unit because of myocardial infarction. An hour later the ventricular facilitation occurred. Which of the following should be administered?
Correct answer	Defibrillation
B	External chest compression
C	Lidocaine injection
D	Adrenalin injection
E	Cardiac pacing
№	krok 2010
Topic	EMERGENCY CONDITIONS. CARDIOLOGY
Task	A 45-year-old driver was admitted to the hospital with 5 hour substernal pain. Nitroglycerin is not effective. He is pale, heart sounds are regular but weak. HR 96 per minute, BP of 100/60 mm Hg. What is the most likely diagnosis?
Correct answer	Acute myocardial infarction
B	Stable angina
C	Pulmonary embolism
D	Acute myocarditis
E	Acute left ventricular failure
№	krok 2010
Topic	CARDIOLOGY

Task	A 33-year-old man with a history of rheumatic fever complains of fever up to 38 – 39oC, abdominal pain, dyspnea, tachycardia. Heart borders are displaced to the left by 2 cm, systolic and diastolic murmurs above aorta, BP of 160/30 mm Hg. Petechial rash occurs after measurement of blood pressure. Liver is enlarged by 3 cm, spleen is palpable. Urine is brown-yellow. What is the most likely diagnosis?
Correct answer	Infectious endocarditis
B	Rheumatic fever
C	Acute hepatitis
D	Acute nephritis
E	Aortic regurgitation
№	krok 2010
Topic	CARDIOLOGY
Task	A 30-year-old patient complains of breathlessness, pain in the right rib arc region, dry cough and the edema of legs. He is ill for 2 months. He had been treated for rheumatic fever without any effect. On exam: cyanosis, edema of legs, BT of 36,6oC, RR of 28/min, HR of 90/min, BP of 110/80 mm Hg, crackles above low parts of both lungs, heart borders are displaced to the left and to the right, weak sounds, systolic murmur above the apex. What is the preliminary diagnosis?
Correct answer	Dilated cardiomyopathy
B	Infectious endocarditis
C	Acute myocarditis
D	Rheumatic fever, mitral stenosis
E	Acute pericarditis
№	krok 2010
Topic	CARDIOLOGY
Task	Which of the following best summarizes indications for operation on an abdominal aortic aneurysm?
Correct answer	Any aneurysm greater than 5 cm in diameter
B	Any abdominal aortic aneurysm
C	Only symptomatic aneurysm

D	Only symptomatic aneurysm greater than 5 cm in diameter
E	Only ruptured aneurysm
№	krok 2010
Topic	GASTROENTEROLOGY
Task	In which of the following disorders does the pathophysiology of portal hypertension involve presinusoidal intrahepatic obstruction?
Correct answer	Congenital hepatic fibrosis
B	Alcoholic cirrhosis
C	Hemochromatosis
D	Budd-Chiari syndrome
E	Cavernomatous transformation of the portal vein
№	krok 2010
Topic	HEMATOLOGY
Task	GASTROENTEROLOGY
Correct answer	A patient who has been consuming refined foodstuffs for a long time complains about headache, fatiguability, depression, insomnia, irritability. Objectively: muscle asthenia, pain and cramps in the gastrocnemius muscles, during walking the patient lands onto his heel first, then on the external edge of foot. Cardiovascular system exhibits tachycardia, hypoxia, dystrophic changes of myocardium. There are also gastrointestinal disorders. What is the most likely diagnosis?
B	Hypovitaminosis B1
C	Hypovitaminosis B2
D	Hypovitaminosis B12
E	Hypovitaminosis B6
№	krok 2010, 2009
Topic	CARDIOLOGY

Task	A 52-year-old male patient complains about attacks of asphyxia, pain in his right side during respiration. These manifestations turned up all of a sudden. It is known from his anamnesis that he had been treated for thrombophlebitis of the right leg for the last month. In the admission ward the patient suddenly lost consciousness, there was a sudden attack of asphyxia and pain in his side. Objectively: heart rate - 102/min, respiratory rate - 28/min, AP- 90/70 mm Hg. Auscultation revealed diastolic shock above the pulmonary artery, gallop rhythm, small bubbling rales above the lungs under the scapula on the right, pleural friction ru What examination method will be the most informative for a diagnosis?
Correct answer	Angiography of pulmonary vessels
B	Echocardiography
C	Study of external respiration function
D	ECG
E	Coagulogram
№	krok 2010
Topic	HEMATOLOGY
Task	A 42-year-old woman complains about bruises on her both legs and prolonged menstruation; general weakness, tinnitus cerebri. Objectively: multiple macular haemorrhages on the legs and body. The patient presents with tachypnoe, tachycardia, systolic murmur in all auscultatory points. AP- 75/50 mm Hg. Blood count: RBC - $1,9 \cdot 10^{12}/l$, Hb- 60 g/l, colour index - 0,9, WBC - $6,5 \cdot 10^9/l$, thrombocytes - $20 \cdot 10^9/l$, ESR- 12 mm/h. Duke bleeding time - 12 minutes. Bone marrow analysis revealed plenty of juvenile immature forms of megacaryocytes without signs of thrombocyte pinch-off. What is the most likely diagnosis?
Correct answer	True thrombocytopenic purpura
B	Type A haemophilia
C	Willebrand's disease
D	Acute megacaryoblastic leukemia
E	Type B haemophilia
№	krok 2010

Topic	ENDOCRINOLOGY
Task	A 30-year old woman taken by influenza has empty stomach glycemia at the rate of 11,3 millimole/l, glucosuria at the rate of 25 g/l. The patient is 168 cm tall and weighs 67 kg. What test would be the most informative for the diagnosis specification?
Correct answer	Insulinemia on an empty stomach
B	Daily glycemia variability
C	Daily glucosuria variability
D	Glycemia test an hour after taking meals
E	Glucose tolerance test
№	krok 2010
Topic	ENDOCRINOLOGY
Task	A 52-year-old male patient has an 18 year history of diabetes mellitus. One year ago he had cystitis. The patient takes 0,005 g of maninil thrice a day. Objectively: height - 176 cm, weight - 82 kg. Glycemia variability on an empty stomach is at the rate of 10,3-12,4 millimole/l. Analyses revealed proteinuria at the rate of 0,033 g/l. The most efficient way to prevent diabetic nephropathy progress will be:
Correct answer	To replace maninil with insulin
B	To increase maninil dosage
C	To decrease daily caloric content
D	To supplement the present therapy with insulin
E	To administer antibacterial therapy
№	krok 2010
Topic	ENDOCRINOLOGY
Task	A 34-year-old female patient complains about weakness, 12 kg weight loss within 6 months, sweating, palpitation, irritability. Objectively: III grade thyroid gland is elastic, diffuse enlargement is present, there is also a node in the right lobe. Cervical lymph nodes are not enlarged. What treatment tactics would be the most rational?
Correct answer	Operation after antithyroid therapy

B	Radioactive iodine administration
C	Immediate surgical intervention
D	Conservative antithyroid therapy
E	Immediate gamma-ray teletherapy
№	krok 2010
Topic	NEPHROLOGY
Task	After supercooling a 38-year-old woman developed muscle pain, body temperature rise up to 39°C, headache, dysuria, positive Pasternatsky's symptom. In the urine: leukocyturia, bacteriuria. In blood: Decrease in Hb rate down to 103 g/l, left shift leukocytosis, ESR acceleration up to 32 mm/h. Blood urea - 6,0 millimole/l. What is the most likely diagnosis?
Correct answer	Acute pyelonephritis
B	Renal tuberclosis
C	Acute glomerulonephritis
D	Urolithiasis
E	Acute cystitis
№	krok 2010
Topic	GASTROENTEROLOGY
Task	A 50-year-old patient complains about having pain attacks in the right subcostal area for about a year. He pain arises mainly after taking fattening food. Over the last week the attacks occurred daily and became more painful. On the 3rd day of hospitalization the patient presented with icteritiousness of skin and scleras, light-colored feces and dark urine. In blood: neutrophilic leukocytosis - $13,1 \cdot 10^9/l$, ESR - 28 mm/h. What is the most likely diagnosis?
Correct answer	Chronic calculous cholecystitis
B	Chronic recurrent pancreatitis
C	Fatty degeneration of liver
D	Chronic cholangitis, exacerbation stage
E	Hypertensive dyskinesia of gallbladder

№	krok 2010
Topic	RHEUMATOLOGY
Task	A 30-year-old patient presented with body temperature rise up to 38,5oC, pain in the small articulations of hands; face edemata and erythema. In blood: RBCs $2,6 \cdot 10^{12}/l$; Hb- 98 г/л; WBCs - $2 \cdot 10^9/l$; ESR - 58 mm/h. In the urine: protein - 3,1 g/l; RBCs - 10-15 in the vision field. What disease can be suspected in this case?
Correct answer	Systemic lupus erythematosus
B	Sepsis
C	Systemic scleroderma
D	Periarteritis nodosa
E	Acute glomerulonephritis
№	krok 2010, 2009
Topic	CARDIOLOGY
Task	A 54-year-old female patient was admitted to the hospital with evident acrocyanosis, swollen cervical veins, enlarged liver, ascites. Cardiac borders are dilated. Heart sounds cannot be auscultated, apical beat is undetectable. AP is 100/50 mm Hg. X-ray picture of chest shows enlarged heart shadow in form of a trapezium. What pathology might have caused these symptoms?
Correct answer	Cardiac tamponade
B	Exudative pleuritis
C	Complex heart defect
D	Acute cardiac insufficiency
E	Hiatal hernia
№	krok 2010
Topic	RHEUMATOLOGY

Task	A 36-year-old female patient complains of general weakness, edemata of her face and hands, rapid fatiguability during walking, difficult deglutition, cardiac irregularities. These symptoms turned up 11 days after a holiday at the seaside. Objectively: face erythema, edema of shin muscles. Heart sounds are muffled, AP is 100/70 mm Hg. In blood: ASAT activity is 0,95 millimole/h·l, ALAT - 1,3 millimole/h·l, aldolase - 9,2 IU/l, creatine phosphokinase - 2,5 millimole P/g·l. What method of study would be the most specific?
Correct answer	Muscle biopsy
B	ECG
C	Echocardiogram
D	Electromyography
E	Determination of cortisol concentration in blood and urine
№	krok 2010
Topic	EMERGENCY CONDITIONS
Task	A 67-year-old female patient suffering from the essential hypertension suddenly at night developed headache, dyspnea that quickly progressed to asphyxia. Objectively: the patient is pale, with sweaty forehead, AP- 210/140 mm Hg, heart rate - 120/min, auscultation revealed solitary dry rales and moist rales in the lower parts. The shins are pastose. What kind of emergency aid would be the most efficient in this case?
Correct answer	Nitroglycerin and furosemide intravenously
B	Enalapril and furosemide intravenously
C	Digoxin and nitroglycerin intravenously
D	Labetalol and furosemide intravenously
E	Nitroglycerin intravenously and capoten internally
№	krok 2010
Topic	GASTROENTEROLOGY

Task	A patient suffering from gastroesophageal reflux has taken from time to time a certain drug that "reduces acidity" over 5 years. This drug was recommended by a pharmacist. The following side effects are observed: osteoporosis, muscle asthenia, indisposition. What drug has such following effects?
Correct answer	Aluminium-bearing antacid
B	Inhibitor of proton pump
C	H2-blocker
D	Metoclopramide
E	Gastrozepin
№	krok 2010
Topic	ENDOCRINOLOGY
Task	A 26-year-old patient complains about considerable muscle weakness, dizziness, extended abdominal pain, nausea and vomiting giving no relief. The disease has been gradually developing within 6 months. There was progress of general weakness, skin darkening. The patient fell into grave condition after an ARD: there appeared abdominal pain and frequent vomiting. Objectively: the skin is dry with diffuse pigmentation. Heart sounds are significantly weakened, heart rate - 60/min, AP- 80/40 mm Hg. The abdomen is slightly painful in the epigastric region. In blood: WBCs - $8,1 \cdot 10^9/l$, glucose - 3,0 millimole/l. What is the most likely diagnosis?
Correct answer	Chronic adrenal insufficiency. Addisonian crisis
B	Acute pancreatitis
C	Toxic infectious shock
D	Acute food poisoning
E	Acute cholecystitis
№	krok 2010
Topic	CARDIOLOGY

Task	A 60-year-old patient complains about asphyxia, palpitation, rapid fatiguability. He has 8 year history of essential hypertension. Objectively: the left cardiac border is 2 cm deviated to the left from the medioclavicular line, heart sounds are rhythmic and weak; there is diastolic shock above aorta. AP- 170/100 mm Hg. Liver - +2 cm; shin pastosity is present. ECG shows deviation of cardiac axis to the left, left ventricle hypertrophy. Ejection fraction - 63%. What type of cardiac insufficiency is observed?
Correct answer	Diastolic
B	Systolic
C	Combined
D	It's a norm
E	Unspecified
№	krok 2010, 2009
Topic	HEMATOLOGY
Task	A 67-year-old female patient complains about edemata of face and legs, pain in the lumbar area that is getting worse at moving; great weakness, sometimes nasal haemorrhages, rise of body temperature up to 38,4o Objectively: painfulness of vertebral column and ribs on palpation. Laboratorial study revealed daily proteinuria of 4,2 g, ESR- 52 mm/h. What changes of laboratory indices are to be expected?
Correct answer	Whole protein of blood serum - 101 g/l
B	Leukocytes - 15,3 g/l
C	Haemoglobin - 165 g/l
D	Albumins - 65%
E	γ-globulins - 14%
№	krok 2009, 2008, 2007
Topic	CARDIOLOGY
Task	A patient who takes diuretics has developed arrhythmia as a result of cardiac glycoside overdose. What is the treatment tactics in this case?
Correct answer	Increased potassium concentration in blood
B	Increased sodium concentration in blood

C	Reduced magnesium concentration in blood
D	Increased calcium concentration in blood
E	krok 2009, 2008
№	EMERGENCY CONDITIONS
Topic	Five days after a total hip joint replacement a 72 year old woman becomes acutely short of breath, diaphoretic and hypotensive. Both lung fields are clear to auscultation and percussion, but examination of the neck reveals mild jugular venous distension with prominent A waves. Heart sounds are normal. ECG shows sinus tachycardia with a new right bundle branch block and minor nonspecific ST – T wave changes. The most likely diagnosis is:
Task	Pulmonary thromboembolism
Correct answer	Acute myocardial infarction
B	Aortic dissection
C	Pericarditis
D	Aspiration
E	-
№	krok 2009, 2008
Topic	CARDIOLOGY
Task	A 52 year old patient with history of functional Class II angina complains of having intense and prolonged retrosternal pains, decreased exercise tolerance for 5 days. Angina is less responsive to nitroglycerine. What is the most probable diagnosis?
Correct answer	IH Unstable angina
B	Cardialgia due to spine problem
C	IH Functional Class II angina
D	Myocarditis
E	Myocardial dystrophy
№	krok 2009, 2008
Topic	GASTROENTEROLOGY

Task	A 27 year old man complains of pains in epigastrium which are relieved by food intake. EGDFS shows antral erosive gastritis, biopsy of antral mucous presents Helicobacter Pylori. Diagnosis is:
Correct answer	Gastritis of type B
B	Gastritis of type A
C	Reflux-gastritis
D	Menetrier's gastritis
E	Rigid antral gastritis
№	krok 2009, 2008
Topic	NEPHROLOGY
Task	A 25 year old woman complained of edema on her face and legs, rise of blood pressure up to 160/100 mm Hg and weakness. She fell ill 3 weeks after recovering from angina. Urinalysis data: protein of 0,5 g/l, erythrocytes of 17-20/field, leukocytes of 2-3/field, erythrocyte casts. What treatment should be initiated after specifying the diagnosis?
Correct answer	Penicillin OS
B	Heparin
C	Ceftriaxone
D	Dipyridamole
E	Ciprofloxacin
№	krok 2009, 2008
Topic	CARDIOLOGY
Task	A 42 year old woman complains of dyspnea, edema of the legs and tachycardia during minor physical exertion. Heart borders are displaced to the left and S1 is accentuated, there is diastolic murmur on apex. The liver is enlarged by 5 cm. What is the cause of heart failure?
Correct answer	Mitral stenosis
B	Mitral regurgitation
C	Tricuspid stenosis
D	Tricuspid regurgitation

E	Aortic stenosis
№	krok 2009
Topic	CARDIOLOGY
Task	A 32 year old patient complains about cardiac irregularities, dizziness, dyspnea at physical stress. He has never suffered from this before. Objectively: Ps- 74 bpm, rhythmic. AP- 130/80 mm Hg. Auscultati-on revealed systolic murmur above aorta, the first heart sound was normal. ECG showed hypertrophy of the left ventri-cle, signs of repolarization disturbance in the I , V5 and V6 leads. Echocardiogram revealed that interventricular septum was 2 cm. What is the most probable diagnosis?
Correct answer	Hypertrophic cardiomyopathy
B	Aortic stenosis
C	Essential hypertension
D	Myocardium infarction
E	Coarctation of aorta
№	krok 2009, 2008
Topic	HEMATOLOGY
Task	A 52 year old patient was admitted to a hospital because of hi-gh hemorrhagic diathesis of mucous membranes, massive skin haemorrhages in form of ecchymoses and spots, nasal and stomachal haemorrhages. After clinical examinations her illness was diagnosed as thrombocytopenic purpura. What is the most probable cause of this disease?
Correct answer	Generation of antithrombocytic antibodies
B	Disturbed hemostasis
C	Deficit of the VIII factor of blood coagulation
D	Inherited insufficiency of plasm factors of blood coagulation
E	Iron deficit in blood serum, bone marrow and depot
№	krok 2009
Topic	RHEUMATOLOGY

Task	A 25 year old patient had pharyngitis 2 weeks ago. Now he complains about body temperature rise up to 38oC, general weakness, dyspnea during walki-ng, swelling and shifting pain in the arti-culations. Objectively: cyanosis of lips, rhythmic pulse of poor volume - 100 bpm. Left cardiac border deviates outwards from the medioclavicular line by 1 cm. The first heart sound is weakened on the apex, auscultation revealed systolic souffle. What is the most probable aetiological factor that caused this pathologi-cal process?
Correct answer	β-haemolytic streptococcus
B	Staphylococcus
C	Pneumococcus
D	Virus
E	Fungi
№	krok 2009, 2008
Topic	NEPHROLOGY
Task	A 39 year old patient complained about morning headache, appetite loss, nausea, morning vomiting, periodic nasal haemorrhages. The patient had acute glomerulonephritis at the age of 15. Examination revealed rise of arterial pressure up to 220/130 mm Hg, skin haemorrhages on his arms and legs, pallor of skin and mucous membranes. What biochemical index has the greatest diagnostic importance in this case?
Correct answer	Blood creatinine
B	Blood bilirubin
C	Blood sodium
D	Uric acid
E	E. Fibrinogen
№	krok 2009,2008, 2007
Topic	TOPIC GASTROENTEROLOGY

Task	A 41 year old woman has suffered from nonspecific ulcerative colitis for 5 years. On rectoromanoscopy: evident inflammatory process of lower intestinal parts, pseudopolyposive changes of mucous membrane. In blood: WBC- $9,8 \cdot 10^9/l$, RBC- $3,0 \cdot 10^{12}/l$, ESR -52 mm/hour. What medication provides pathogenetic treatment of this patient?
Correct answer	Sulfosalasine
B	Motilium
C	Vikasolum
D	Linex
E	Kreon
№	krok 2009
Topic	RHEUMATOLOGY
Task	A 38 year old female patient complains about body stiffness in the morning, especially in the articulations of her upper and lower limbs, that disappears 30-60 minutes later after active movements. She has also arthritis of metacarpophalangeal and proximal phalangeal articulations, subfebrile temperature. ESR- 45 mm/h. Roentgenography revealed osteoporosis and erosion of articular surface of small hand and foot articulations. What is the most probable diagnosis?
Correct answer	Rheumatoid arthritis
B	Psoriatic arthropathy
C	Osteoarthrosis deformans
D	Systemic lupus erythematosus
E	Reactive polyarthritis
№	krok 2009
Topic	ENDOCRINOLOGY

Task	As a result of prophylactic medical examination a 35 year old woman was diagnosed with alimentary and constitutive obesity of the III degree. It is known from her anamnesis that the patient doesn't observe rules of rational nutri-tion: she often overeats, the last food intake is usually 10-15 minutes before going to bed, prefers fattening and ri-ch in carbohydrates food. What is the main alimentary risk factor of obesity development?
Correct answer	Energetic unprofitableness of nutrition
B	Excess of carbohydrates
C	Excess of fats
D	Lack of cellulose
E	Violation of dietary pattern
№	krok 2009
Topic	HEMATOLOGY
Task	A 63 year old patient complai-ned about pain in the lumbar area. He underwent a course of physiological treatment on account of radiculitis but this led to no improvement of his condition. R-graphy of spinal column and pelvic bones revealed osteoporosis and serious bone defects. Blood analysis revealed moderate normochromic anaemia, uri-ne analysis revealed proteinuria. Whole blood protein made up 10,7 g/l. What di-sease should be suspected?
Correct answer	Myelomatosis
B	Urolithiasis
C	Acute radiculitis
D	Metastases in bones
E	Systemic osteoporosis
№	krok 2009, 2008, 2007
Topic	RHEUMATOLOGY
Task	A 30 year old man complains of intense pain, reddening of skin, edema

Correct answer	in the ankle-joint area, fever up to 39o There was an acute onset of the illness. In the past there were similar attacks lasting 5-6 days without residual changes in the joint. The skin over the joint is hyperemic and ill-defined, without infiltrative bank on the periphery. What is the most likely diagnosis?
B	Gout
C	Infectious arthritis
D	Rheumatoid arthritis
E	Erysipelatous inflammation
№	krok 2009
Topic	ENDOCRINOLOGY
Task	Examination of a 26 year old female patient revealed a node in the right lobe of thyroid gland. The node appeared no earlier than 3 months ago. The pati-ent associates this node with stress. She doesn't complain either about pain or enlargement of the node. Ultrasonic scanning revealed a 2x2,5 cm large node in the inferior part of the right lobe of thyroid gland. What treatment should be administered?
Correct answer	Surgical intervention
B	Conservative therapy
C	Dynamic observation
D	No need for treatment
E	-
№	krok 2009
Topic	HEMATOLOGY
Task	A 27 year old patient suffers from haemophilia. He was admitted to the hospital with melena and skin pallor. Objectively: Ps- 110 bpm, AP- 100/60 mm Hg. In blood: Hb- 80 g/l, erythrocytes - $2,8 \cdot 10^{12}/l$. What medication should be administered in the first place?
Correct answer	Cryoprecipitate
B	Stored blood
C	Packed red blood cells
D	Dicinone

E	Epsilon-aminocaproic acid
№	krok 2009
Topic	GASTROENTEROLOGY
Task	A patient suffering from gastroesophageal reflux has taken from time to time a certain drug that "reduces acidity" for 5 years. This drug was recommended by a pharmacist. The following side effects are observed: osteoporosis, muscle weakness, indigestion. What drug has such following effects?
Correct answer	Aluminium-bearing antacid
B	Inhibitor of proton pump
C	β 2-blocker
D	Metoclopramide
E	Gastrozepin
№	krok 2009
Topic	EMERGENCY CONDITIONS
Task	A 43 year old female patient was delivered to the hospital in grave condition. She suffers from Addison's disease. The patient had been regularly taking prednisolone but a week before she stopped taking this drug. Objectively: sopor, skin and visible mucous membranes are pigmented, skin and muscle turgor is lowered. Heart sounds are muffled, rapid. AP- 60/40 mm Hg, heart rate - 96/min. In blood: Na- 120 millimole/l, K- 5,8 micromole/l. Development of this complication is primarily caused by the deficit of the following hormone:
Correct answer	Cortisol
B	Corticotropin (ACTH)
C	Adrenaline
D	Noradrenaline
E	Adrostendion
№	krok 2008
Topic	EMERGENCY CONDITIONS
Task	Adenosine triphosphate may be expected to convert which of the following arrhythmias to sinus rhythm?

Correct answer	Paroxysmal supraventricular tachycardia
B	Paroxysmal ventricular tachycardia
C	Atrial fibrillation
D	Atrial flutter
E	Ventricular fibrillation
№	krok 2008
Topic	CARDIOLOGY
Task	A 56 year old man complains of fatigue, dyspnea on exertion and palpitations. He has had a murmur since childhood. Examination reveals a lift at the left sternal border, split S1, and fixed splitting of S2. There is a grade 3/6 midsystolic pulmonic murmur and a 1/6 middiastolic tricuspid murmur at the lower left sternal border. Chest x-ray shows right ventricular enlargement and prominent pulmonary arteries. ECG demonstrates atrial fibrillation with a right bundle branch block. The most likely diagnosis is:
Correct answer	Arterial septal defect
B	Coarctation of the aorta
C	Patent ductus arteriosus
D	Tetralogy of Fallot
E	Ventricular septal defect
№	krok 2008
Topic	CARDIOLOGY
Task	Generalized low voltage on an ECG (QRS deflection < 5 mm in limb leads and < 10 mm in precordial leads) may be a marker for all of the following disorders EXCEPT:
Correct answer	Hyperthyroidism
B	Pericardial effusion
C	Cardiac transplant rejection
D	Amyloidosis
E	Coronary artery disease
№	krok 2008

Topic	ENDOCRINOLOGY
Task	Which of the following IS NOT TYPICAL for Addison's disease?
Correct answer	High serum Na ⁺
B	High serum K ⁺
C	Elevated BUN
D	Dilute urine
E	Elevated hematocrit
№	krok 2008
Topic	CARDIOLOGY
Task	A patient, aged 49, complains of fever of 37, 5°C, heart pain, dyspnea. S1 is clapping; S2 is accentuated in the aortic area; opening snap, presystolic murmur can be auscultated. What is the most efficient examination for valvular disorder assessment?
Correct answer	Echocardiography+Doppler-Echocardiography
B	Phonocardiography
C	Ballistocardiogram
D	Chest X-ray
E	ECG
№	krok 2008
Topic	GASTROENTEROLOGY
Task	A patient, aged 48, complains of heaviness in the right hypochondrium, itching of the skin. Repeatedly he had been treated in infectious diseases hospital because of icterus and itch. Objectively: meteorism, ascitis, dilation of abdominal wall veins, protruding navel, spleen enlargement. Diagnosis is:
Correct answer	Liver cirrhosis
B	Cancer of the liver
C	Cancer of the head of pancreas
D	F. Gallstones
E	G. Viral hepatitis B

№	krok 2008
Topic	ENDOCRINOLOGY
Task	A 62 year old patient suffers from DM-2. Diabetes is being compensated by diet and Maninilum. The patient has to undergo an operation on inguinal hernia. What tactics of hypoglycemic therapy should be chosen?
Correct answer	Prescribe fast-acting insulin
B	Give Glurenorm instead of Maninilum
C	Continue with the current therapy
D	Prescribe long-acting insulin
E	Prescribe guanyl guanidines
№	krok 2008
Topic	HEMATOLOGY
Task	A 50 year old patient has been admitted to the clinics with atrophic gastritis. Blood count: erythrocytes - $3,8 \cdot 10^{12}/l$, Hb - 68 g/l, c.i. - 1, macroanisocytosis, poikilocytosis. There is megaloblastic type of haemopoiesis. A number of leukocytes, reticulocytes and thrombocytes is lreduced. Which pathology is suspected?
Correct answer	B12-deficiency anemia
B	Irondeficiency anemia
C	Hemolytic anemia
D	Post-hemorrhagic anemia
E	Thalassaemia
№	krok 2008, 2007
Topic	PULMONOLOGY
Task	A 56 year old woman has an acute onset of fever up to 39°C with chills, cough, and pain on respiration in the right side of her chest. On physical examinati-on: HR - 90/min, BP- 95/60 mm Hg, RR-26/min. There is dullness over the right lung on percussion. On X-ray: infiltrate in the right middle lobe of the lung. What is the diagnosis?

Correct answer	Community-acquired lobar pneumonia of moderate severity
B	Community-acquired bronchopneumonia
C	Acute pleuritis
D	Acute lung abscess
E	Nosocomial lobar pneumonia
№	krok 2008
Topic	PULMONOLOGY
Task	A 26 year old man was admitted to the hospital because of stabbing back pain on inspiration and dyspnea. Examination results: BT of 37oC, Ps of 24/min, HR of 92/min, vesicular breath sounds. There is a dry, grating, low-pitched sound heard on both expiration and inspiration in the left inferior lateral part of the chest. What is the most likely diagnosis?
Correct answer	Acute fibrinous pleuritis
B	Myocarditis
C	Pneumonia
D	Acute bronchitis
E	Pneumothorax
№	krok 2008
Topic	GASTROENTEROLOGY
Task	A 50 year old woman complained of attacks of right subcostal pain after fatty meal she has been suffering from for a year. Last week the attacks repeated every day and became more painful. What di-agnostic study would you recommend?
Correct answer	Ultrasound examination of the gallbladder
B	Liver function tests
C	X-ray examination of the gastrointesti-nal tract
D	Ultrasound study of the pancreas
E	Blood cell count
№	krok 2008

Topic	HEMATOLOGY
Task	A 60 year old man complains of fever, significant weight loss, bone and joint pain, bleeding gums. Examination revealed paleness, lymphadenopathy, hepato- and splenomegaly. CBC: WBC - $270 \cdot 10^9/l$ with 13% lymphocytes, 1% monocytes, 21% basophiles, 29% neutrophils, 9% blasts, 12% promyelocytes, 12% myelocytes, 2% metamyelocytes, 1% eosinophils. ESR - mm/h. Name the drug for treatment:
Correct answer	Myelosan
B	Prednisolone
C	Cytosar
D	Vinblastine
E	Blood transfusion
№	krok 2008, 2007
Topic	HEMATOLOGY
Task	A 54 year old woman complains of increasing fatigue and easy bruising of 3 weeks' duration. Physical findings included pale, scattered ecchymoses and petechiae and mild hepatosplenomegaly. Blood count: RBC- $2,5 \cdot 10^{12}/l$; Hb – 73 g/l; Ht - 20%; PLT- $23 \cdot 10^9/l$; and WBC- $162 \cdot 10^9/l$ with 82% blasts, that contained Auric rods; peroxidase stain was positive. What is the most probable diagnosis?
Correct answer	Acute leukemia
B	Chronic leukemia
C	Thrombocytopenia
D	Hemolytic anemia
E	Megaloblastic anemia
№	krok 2008
Topic	ENDOCRINOLOGY
Task	A 50 year old woman with a 2-year history of mild, diffuse, tender thyroid enlargement complains of 10 pound weight gain and fatigue. What is the most probable diagnosis?
Correct answer	Hashimoto's thyroiditis

B	Riedel's thyroiditis
C	Subacute thyroiditis
D	Suppurative thyroiditis
E	Papillary thyroid carcinoma
№	krok 2008
Topic	GASTROENTEROLOGY
Task	A 68 year old patient has been suffering from chronic pancreatitis for 35 years. During the last 5 years he has been observing abatement of pain syndrome, abdominal swelling, frequent defecations up to 3-4 times a day (feces are greyi-sh, glossy, with admixtures of undigested food), progressing weight loss. Change of symptom set is caused by joining of:
Correct answer	Exocrine pancreatic insufficiency
B	Endocrine pancreatic insufficiency
C	Syndrome of lactase deficiency
D	Irritable bowels syndrome
E	Chronic enterocolitis
№	krok 2008
Topic	ENDOCRINOLOGY
Task	Study of actual diet of an adult revealed the following: proteins make up 16% of energy value of daily rati-on, fats - 25%, carbohydrates - 59%. Evaluate compliance of protein, fat and carbohydrate share in the energy value of daily ration with the recommended shares of these nutrients?
Correct answer	Carbohydrate share is insufficient, there is excess of proteins
B	Fat share is insufficient
C	Carbohydrate share is insufficicent
D	Carbohydrate share is excessive
E	Nutrient content complies with the recommended shares of energy value
№	krok 2008
Topic	GASTROENTEROLOGY

Task	A 32 year old patient complains about heartburn and dull pain in the epigastrium that appear 2-3 hours after meal. Exacerbations happen in spring and in autumn. The patient has food intolerance of eggs and fish. Objectively: stomach palpation reveals painfulness in the gastroduodenal area. Electrophasoduodenoscopy revealed a 5 mm ulcer on the anterior wall of duodenum. Urease test is positive. What is the most probable leading mechanism of disease development?
Correct answer	Chelicobacterial infection
B	Dietary allergy
C	Autoantibody production
D	Reduced prostaglandin synthesis
E	Disorder of gastric motor activity
№	krok 2008
Topic	NEPHROLOGY
Task	A 48 year old woman complains about weakness, weight loss, appetite loss, headache. The patient had acute glomerulonephritis when she was young. She has been suffering from arterial hypertension since she was 25. She didn't undergo systematic treatment, consulted a doctor rarely. Examination revealed signs of chronic renal insufficiency of the I stage (creatinine - 0,43 millimole/l). What dietary recommendations are the most reasonable?
Correct answer	Restriction of protein consumption
B	Restriction of fat consumption
C	Restriction of carbohydrate consumption
D	Diet with high content of "alkaline" dishes
E	Consumption of higher amounts of liquid
№	krok 2008
Topic	CARDIOLOGY

Task	A 50 year old woman complains about dull cardiac pain, asphyxia , body temperature rise up to 38o She had influenza a week ago. Objectively: Ps – 100 bpm, dropped-beat pulse during inspiration. AP - 100/70 mm Hg, heart sounds are muffled. ECG: reduced voltage, ST segment is above the isoline in all leads. X-ray picture shows extensively enlarged cardiac silhouette. Palmus is of small amplitude. What is the most probable diagnosis?
Correct answer	Exudative pericarditis
B	Myocardium infarction
C	Dilatation cardiomyopathy
D	Myocarditis
E	Stenocardia
№	krok 2008
Topic	NEPHROLOGY
Task	A 23 year old man complains about face edemata, headache, dizziness, reduced urination, change of urine colour (dark-red). These presentations appeared after pharyngitis. Objectively: face edemata, pale skin, temperature – 37,4, 4oC; heart rate - 86/min, AP - 170/110 mm Hg. Heart sounds are muffled, the II sound is accentuated above aorta. What etiological factor is probable in this case?
Correct answer	β-hemolytic streptococcus
B	Staphylococcus aureus
C	Alpha-hemolytic streptococcus
D	Pyogenic streptococcus
E	Saprophytic staphylococcus
№	krok 2008
Topic	RHEUMATOLOGY

Task	A 32 year old patient complains about pain in small joints of her hands, paresthesia at the tips of fingers, weakness, difficult deglutition. She has been suffering from this for years. Objectively: facial asymmetry, shortening of nail bones, skin indurations in the area of shoulder girdle are present. Roentgenological examination of lungs revealed basal pneumosclerosis. Fibrogastroscopy revealed esophagus constriction in its cardiac part. Blood count: leukocytes - $9,8 \cdot 10^9/l$, ESR - 22 mm/h, γ -globulin - 22%. What is the most probable diagnosis?
Correct answer	Systemic scleroderma
B	Systemic lupus erythematosus
C	Rheumatoid arthritis
D	Dermatomyositis
E	Myxedema
No	krok 2008
Topic	CARDIOLOGY
Task	A 30 year old woman ill with influenza felt palpitation and dull cardiac pain during moderate physical exercise. Objectively: Ps - 96 bpm, AP - 100/60 mm Hg. The first sound is quiet above the apex, soft systolic murmur is present. What complication is indicated by these clinical presentations?
Correct answer	Acute viral myocarditis
B	Acute allergic infectious myocarditis
C	Idiopathic myocarditis
D	Myocardiopathy
E	Neurocirculatory dystonia
No	krok 2008
Topic	NEPHROLOGY
Task	A 35 year old patient who suffers from chronic glomerulonephritis and has been hemodialysis-dependent for the last three years developed intermissions of heart activity, hypotension, progressing weakness, dyspnea. ECG showed bradycardia, atrioventricular block type I, high peaked waves T. The day before the flagrant violation of diet took place. What is the most probable cause of these changes?

Correct answer	Hyperkaliemia
B	Hyperhydratation
C	Hypokaliemia
D	Hypernatremia
№	krok 2008, 2007
Topic	EMERGENCY CONDITIONS
Task	A 49 year old female patient was admitted to a hospital with acute attacks of headache accompanied by pulsation in temples, AP rose up to 280/140 mm Hg. Pheochromocytoma is suspected. What mechanism of hypertensive attack does this patient have?
Correct answer	Increase of catecholamine concentration
B	Increase of aldosterone level in blood
C	Increase of plasma renin activity
D	Increase of vasopressin secretion
E	Increase of thyroxine secretion
№	krok 2008
Topic	ENDOCRINOLOGY
Task	Preventive examination of a 55 year old patient revealed diabetes mellitus. The patient hasn't received treatment for it. Objectively: height is 170 cm, weight is 106 kg, skin humidity is normal. Ps is 76 bpm, rhythmic, left border of relative heart dullness is deviated by 1 cm to the left from the middle clavicular line, heart sounds are quiet, AP is 140/80 mm Hg. Glycemia on an empty stomach is 6,9 millimole/l. Glucose rate in the daily urine is 0,5%, diuresis makes up 2,5 l. What treatment tactics should be chosen?
Correct answer	To administer dietotherapy
B	To administer metformin
C	To administer glibenclamid
D	To administer repaglinide
E	To administer insulin
№	krok 2008

Topic	EMERGENCY CONDITIONS
Task	A 46 year old woman who has been suffering from hypertension for 5 years was diagnosed with hypertensive crisis. She complains about palpitation, sense of head pulsation; heart rate is 100/min, AP is 190/100 mm Hg (haemodynamics is of hyperkinetic type). What medication should be the medication of choice?
Correct answer	β -adrenoceptor blocker
B	Adenosine pyrophosphate inhibitor
C	Diuretic
D	α -adrenoceptor blocker
E	Dihydropyridine calcium antagonist
№	krok 2008
Topic	RHEUMATOLOGY
Task	A 52 year old patient with disseminated vertebral osteochondrosis lifted a significant load that resulted in lumbar pain and pain along the sciatic nerve. Objectively: positive Lasegue's sign on the left, reduced Achilles reflex. What drug would be the most effective from the pathogenetic point of view?
Correct answer	Diclofenac
B	Aspirin
C	Analgin
D	Novocaine
E	Spasmalgon
№	krok 2007
Topic	RHEUMATOLOGY
Task	A 21 y.o. man complains of having morning pains in his back for the last three months. The pain can be relieved during the day and after physical exercises. Physi-cal examination revealed reduced mobility in the lumbar part of his spine, increase of muscle tonus in the lumbar area and sluch during moving. X-ray pattern of spi-ne revealed bilateral sclerotic changes in the sacrolumbal part. What test will be the most necessary for confirming a di-agnosis?

Correct answer	HLA-B27
B	ESR
C	Rheumatoid factor
D	Uric acid in blood plasma
E	Antinuclear antibodies
№	krok 2007
Topic	GASTROENTEROLOGY
Task	A patient is 65 y.o. He has been a smoker for 40 years. Hew has lost 10 kg during the last 3 months. Complai-ns of pain in the epigastric area after taking meals, diarrhea, jaundice. Physical examination revealed enlarged, painless gallbladder. Feces are light-coloured and clay-like. Blood analysis revealed increased level of whole and direct bilirubin, alkaline phosphotase and glutaminepyruvate transferase. Clinical urine analysis showed positive bilirubin reacti-on and negative urobilinogene reaction. Where is the initial process that caused these changes?
Correct answer	In pancreas
B	In common bile duct
C	In liver
D	In duodenum
E	In gallbladder
№	krok 2007
Topic	GASTROENTEROLOGY
Task	A 75 y.o. man has acute pain in the paraumbilical region accompanied by vomiting and feeling of abdominal swelling in approximately 30 minutes after meals. He lost 10 kg during the last months because he doesn't eat in order to avoid pain. Abdomen examination reveals no changes in the periods between pain attacks. Above the right femoral artery a murmur can be auscultated, peripheral pulsation in the lower extrimities is weak. X-ray examination of stomach and colonoscopy reealed no changes. What is the leading factor of this pathogenesis?
Correct answer	Ischemia

B	Psychogenic changes
C	Neoplastic process
D	Inflammation
E	Transient obstruction
№	krok 2007
Topic	CARDIOLOGY
Task	A 75 y.o. woman with coronary heart disease constantly takes warfarin. She was taken to the acute care department with complaints of sudden sensation of weakness in the left half of her body and eyeball deviation to the left. What examination of the patient will be a primary task?
Correct answer	Computer tomography of brain
B	Magnetic resonance tomography of brain
C	Electroencephalogram
D	Ultrasonic examination of carotid arteries
E	Spinal puncture
№	krok 2007
Topic	EMERGENCY CONDITIONS
Task	A 23 y.o. woman who suffers from insulin-dependent diabetes was admitted to the acute care department with mental confusion, inadequate anxious behaviour, hyperhidrosis, excessive salivation, tachycardia. What examination will be a primary task?
Correct answer	Blood test for sugar
B	Clinical blood analysis
C	Plasma electrolytes test
D	Gaseous composition of arterial blood
E	Blood urea and creatinine test
№	krok 2007
Topic	RHEUMATOLOGY

Task	A 40 y.o. patient with rheumatic heart disease complains of anorexia, weakness and loss of weight, breathlessness and swelling of feet. The patient had tooth extraction one month ago. On examination: t0- 390C, Ps- 100/min. Auscultation: diastolic murmur in the mitral area. Petechial lesion around the clavicle; spleen was palpable.
Correct answer	Subacute bacteria endocarditis
B	Recurrence of rheumatic fever
C	Thrombocytopenia purpura
D	Mitral stenosis
E	Aortic stenosis
№	krok 2007
Topic	PULMONOLOGY
Task	A 38 y.o. patient has been treated in a hospital. A fever of 390C, chest pain which is worsened by breathing, cough, brownish sputum appeared on the 7-th day of the treatment. Chest X- ray shows left lower lobe infiltrate. Which of the following is the treatment of choice for this patient?
Correct answer	Cephalosporins of the III generation
B	Penicillin
C	Erythromycin
D	Tetracycline
E	Streptomycin
№	krok 2007
Topic	ENDOCRINOLOGY
Task	A 62 y.o. patient suffers from DM-2. Diabetes is being compensated by diet and Maninilum. Patient has to undergo an operation on inguinal hernia. What tactics of hypoglycemic therapy should be used?
Correct answer	Prescribe fast-acting insulin
B	Give Glurenorm in place of Maninilum
C	Continue with the current therapy
D	Prescribe long-acting insulin

E	Prescribe guanyl guanidines
№	krok 2007
Topic	ENDOCRINOLOGY
Task	A patient of 32 y.o. complains of severe weakness, tremor of extremities. Objective examination: body weight loss, wet and warm skin. The thyroid gland is enlarged up to the 3-rd degree, painless, elastic. Ps-108/min. BP- 160/55 mm Hg. There are no other abnormalities. The diagnosis is:
Correct answer	Diffuse toxic goiter of the 3-rd degree, thyrotoxicosis of the average degree
B	Diffuse euthyroid goiter of the 3-rd degree
C	Chronic autoimmune thyroiditis, hypertrophic type
D	Chronic fibrous thyroiditis
E	Toxiferous adenoma of the thyroid gland
№	krok 2007
Topic	PULMONOLOGY
Task	A 30 y.o. man presents with a history of recurrent pneumonias and a chronic cough production of foul smelling, purulent sputum, occasionally blood tinged, which is worse in the morning and on lying down. On physical examination, the patient appears chronically ill with clubbing of fingers, inspiratory rales at the base of lungs posteriorly. Most likely diagnosis:
Correct answer	Bronchoectasis
B	Chronic bronchitis
C	Disseminated pulmonary tuberculosis
D	Pulmonary neoplasm
E	Chronic obstructive emphysema
№	krok 2007
Topic	EMERGENCY CONDITIONS

Task	A 58 y.o. man complains of severe inspiratory dyspnea and expectorati-on of frothy and blood-tinged sputum. He has been suffering from essential hypertension and ischemic heart disease. On examination: acrocyanosis, "bubbling"breathing, Ps- 30/min, BP- 230/130 mm Hg, bilateral rales. Choose medicines for treatment.
Correct answer	Morphine, furosemide, nitroprusside sodium
B	Theophylline, prednisolon
C	Albuterol, atropine, papaverine
D	Strophanthine, potassium chloride, plathyphylline
E	Cordiamine, isoproterenol
№	krok 2007
Topic	HEMATOLOGY
Task	A 25 y.o. woman complained of fatigue, hair loss and brittle nails. The examination revealed pallor of skin, Ps- 94/min, BP- 110/70 mm Hg. On blood count: Hb- g/L, RBC- 3, 5·10 ¹² /L, I.- 0,7; ESR- 20 mm/h. Serum iron level was 8,7 mcmol/l. What treatment would you initiate?
Correct answer	Ferrous sulfate orally
B	Iron dextrin injections
C	Vitamin B12 intramuscularly
D	Blood transfusion
E	Packed RBCs transfusion
№	krok 2007
Topic	PULMONOLOGY
Task	A 38 y.o. woman is seriously ill. She complains of frequent paroxysms of expiratory dyspnea. The last paroxysm lasted over 12 hours and failed to respond to theophylline. The skin is palish gray, moist, RR of 26/min. On auscultation, breath sounds are absent over some areas. Your preliminary diagnosis?
Correct answer	Bronchial asthma, status asthmaticus
B	Chronic obstructive bronchitis
C	ATOPIC bronchial asthma, respiratory failure of the III degree

D	Bronchiectasis, respiratory failure of the II-III degree
E	Ischemic heart disease, pulmonary edema
№	krok 2007
Topic	RHEUMATOLOGY
Task	A 19 y.o. girl admitted to the hospital complained of pain in the knee and fever of 38, 60 She is ill for 2 weeks after acute tonsillitis. On exam, hyperemia and swelling of both knees, temperature is 38, 40C, HR- 94/min, BP- 120/80 mm Hg, and heart border is displaced to the left; S1 is weak, systolic murmur is present. Total blood count shows the following: Hb- 120 g/L, WBC- 9, 8 · 10 ⁹ /L, ESR of mm/L. ECG findings: the rhythm is regular, PQ = 0,24 sec. What is a causative agent of the disease?
Correct answer	Beta-hemolytic streptococci
B	Viral-bacterial association
C	Autoimmune disorder
D	Staphylococci
E	Ricchetsia
№	krok 2007
Topic	RHEUMATOLOGY
Task	A 42 y.o. woman complains of dyspnea, edema of the legs, and tachycardia during small physical exertion. Heart borders are displaced to the left and S1 is accentuated, there is diastolic murmur on apex. The liver is enlarged by 5 cm. What is the cause of heart failure?
Correct answer	Mitral stenosis
B	Mitral regurgitation
C	Tricuspid stenosis
D	Tricuspid regurgitation
E	Aortic stenosis
№	krok 2007
Topic	GASTROENTEROLOGY

Task	A 39 y.o. woman complains of squeezed epigastric pain 1 hour after meal and heartburn. She had been ill for 2 years. On palpation, there was moderate tenderness in pyloroduodenal area. Antral gastritis was revealed on gastroscopy. What study can establish genesis of the disease?
Correct answer	Revealing of Helicobacter infection in gastric mucosa
B	Detection of autoantibodies in the serum
C	Gastrin level in blood
D	Examination of stomach secretion
E	Examination of stomach motor function
№	krok 2007
Topic	HEMATOLOGY
Task	A 27 y.o. patient has been having for almost a year fatigue, hyperhidrosis, heaviness in the left hypochondrium, especially after meals. Objectively: spleen and liver enlargement. In blood: erythrocytes - $3,2 \cdot 10^{12}/l$, Hb- 100 g/l, colour index - 0,87 leukocytes - $\cdot 10^9/l$, basophils - 7%, eosinophils - 5%, myelocytes - 15%, juveniles - 16%, stab neutrophils - 10%, segmentonuclear leukocytes - 45%, lymphocytes - 2%, monocytes - 0%, reticulocytes - 0,3%, thrombocytes - $400 \cdot 10^9/l$, ESR- 25 mm/h. What is the most probable diagnosis?
Correct answer	Chronic myeloleukosis
B	Chronic lympholeukosis
C	Acute leukosis
D	Erythremia
E	Hepatocirrhosis
№	krok 2007
Topic	ENDOCRINOLOGY

Task	A 34 y.o. patient has been suffering from pulmonary tuberculosis for 7 years; he complains of muscle feebleness, weight loss, diarrheas, increased frequency of urination. Objectively: hyperpigmentation of skin, gums, internal cheek surfaces. AP is 90/58 mm Hg. Blood count: erythrocytes - $3,1 \cdot 10^{12}/L$, Hb- 95 g/L, I.- 0,92; leukocytes - $9,4 \cdot 10^9/L$, eosinophils 7, segmentonuclear leukocytes - 45, stab neutrophils - 1, lymphocytes - 40, monocytes - 7, N a+- 115 mmole/L, +-7,3 mmole/L. What is the preliminary diagnosis?
Correct answer	Primary insufficiency of adrenal cortex
B	Pheochromocytoma
C	Primary hyperaldosteronism
D	Congenital adrenal hyperplasia
E	Diabetes insipidus
№	krok 2007
Topic	NEPHROLOGY
Task	3 weeks ago a patient was ill with tonsillitis. Clinical examination reveals edema, arterial hypertension, hematuria, proteinuria (1,8 g/per day), granular and erythrocytal casts. What is the preliminary diagnosis?
Correct answer	Glomerulonephritis
B	Cystitis
C	Pyelonephritis
D	Intestinal nephritis
E	Renal amyloidosis
№	krok 2007
Topic	CARDIOLOGY
Task	A 52 y.o. patient with previously functional Class II angina complains of 5 days of intensified and prolonged retrosternal pains, decreased exercise tolerance. Angi-na is less responsive to Nitroglycerinum. Which of the following diagnosis is most likely?
Correct answer	IH Unstable angina
B	Cardialgia due to spine problem

C	IH Functional Class II angina
D	Myocarditis
E	Myocardial dystrophy
№	krok 2007
Topic	GASTROENTEROLOGY
Task	A patient suffers from chronic recurrent pancreatitis with evident disturbance of exocrinous function. After intake of rich spicy food and spirits his stool becomes fatty. Reduced production of what factor is the most probable cause of steatorrhea?
Correct answer	Lipase
B	Tripsin
C	Acidity of gastric juice
D	Amylase
E	Alkaline phosphatase
№	krok 2007
Topic	NEPHROLOGY
Task	A 54 y.o. woman has been ill with osteomyelitis of femoral bone for over years. During the last month there appeared and have been steadily increasi-ng edemata of lower extremities. Urine analysis revealed: proteinuria - 6,6 g/l. Blood analysis: disproteinemia in form of hypoalbuminemia, raise of α 2- and γ -globulines, ESR- 50 mm/h. What is the most probable diagnosis?
Correct answer	Secondary renal amyloidosis
B	Acute glomerulonephritis
C	Myelomatosis
D	Chronic glomerulonephritis
E	Systematic lupus erythematosus
№	krok 2007
Topic	CARDIOLOGY

Task	After a long periode of subfebrility a patient registered increase of dyspnea, pain in the right hypochondrium, leg edemata. Objectively: neck veins are edematic. Ps is 120 bpm, sometimes it disappears during inspiration. Heart sounds are very weakened. ECG showed low-voltage waves of ventricular complex. A month ago there was raise of ST V1 – V4 segment. Cardiac silhouette is enlarged, roundish. What is the most probable di-agnosis?
Correct answer	Exudative pericarditis
B	Small-focal myocardial infarction
C	Postinfarction cardiosclerosis
D	Metabolic postinfection myocardi-opathy
E	Primary rheumatic carditis
№	krok 2007
Topic	NEPHROLOGY
Task	A 58 y.o. patient complains of weakness, leg edemata, dyspnea, anorexia. He has been suffering from chronic bronchitis for many years. During the last 5 years he has been noting intensi-fied discharge of sputum that is often purulent. Objectively: RR- 80/min, AP-120/80 mm Hg. Disseminated edemata, skin is dry and pale, low turgor. In urine: intense proteinuria, cylindruria. Specify the most probable pathological process in kidneys:
Correct answer	Renal amyloidosis
B	Chronic glomerulonephritis
C	Chronic pyelonephritis
D	Interstitial nephritis
E	Acute glomerulonephritis
№	krok 2007
Topic	HEMATOLOGY
Task	A 19 y.o. patient was admitted to the hospital with acute destructive appendici-tis. He suffers from hemophilia B-type. What antihemophilic medicine should be included in pre- and postoperative treatment plan?

Correct answer	Fresh frozen plasma
B	Cryoprecipitate
C	Fresh frozen blood
D	Native plasma
E	Dried plasma
№	krok 2007
Topic	HEMATOLOGY
Task	A 42 y.o. patient complains of weakness, heartbeat, nasal hemorrhages, cutaneous hemorrhages. His condition has been worsening progressively for a month. Objectively: grave condition, the extremities and body skin has spotted and petechial hemorrhages, lymph nodes are not palpable, Ps- 116/min, liver is +2 cm enlarged, spleen is not palpable. Blood has evident pancytopenia. What disease should you think about first of all?
Correct answer	Hypoplastic anemia
B	Acute leukosis
C	Werlhof's disease
D	Hemorrhagic vasculitis
E	Acute agranulocytosis
№	krok 2007
Topic	ENDOCRINOLOGY
Task	A 63 y.o. patient was operated on account of big multinodular euthyroid goiter. Despite of technical difficulties a forced subtotal resection of both parts of the thyroid gland was performed. On the 4-th day after the operation the woman had cramps of face muscles and upper extremities, stomach ache. Positive Chvostek's and Trousseau's signs. What is the most probable cause of such condition?
Correct answer	Insufficiency of parathyroid glands
B	Postoperative hypothyroidism
C	Thyrotoxic crisis
D	Injury of recurrent nerve

E	Tracheomalacia
№	krok 2007
Topic	RHEUMATOLOGY
Task	A 32 y.o. patient has been suffering from systematic scleroderma for 14 years. She was repeatedly exposed to treatment in the in-patient department. Complains of periodical dull cardiac pain, dyspnea, headache, eyelid edemata, weight loss, pain and deformation of extremities joints. What organ's lesion deteriorates the prognosis for the disease?
Correct answer	Kidneys
B	Heart
C	Lungs
D	Gastrointestinal tract
E	Skin and joints
№	krok 2007
Topic	NEPHROLOGY
Task	A 50 y.o. woman who suffers from chronic pyelonephritis was prescribed a combination of antibiotics for the period of exacerbation - gentamicin (80 mg 3 times a day) and bisepitol (960 mg twice a day). What consequences may be caused by such a combination of antibiotics?
Correct answer	Acute renal insufficiency
B	Glomerulosclerosis
C	Chronic renal insufficiency
D	Antibiotic combination is optimal and absolutely safe
E	Acute suprarenal insufficiency
№	krok 2007
Topic	PULMONOLOGY
Task	A patient has been suffering from morning cough accompanied by discharge of small amount of sputum, dyspnea for 8 years. He has been smoking for 10 years. Objectively: cyanosis, prolonged expiration, dry rales. What is the most probable diagnosis?

Correct answer	Chronic obstructive bronchitis
B	Chronic non-obstructive bronchitis
C	Idiopathic fibrosing alveolitis
D	Multiple bronchiectasis
E	Bronchial asthma
№	krok 2007
Topic	CARDIOLOGY
Task	A 70 y.o. patient complains of weakness, dizziness, short periods of unconsciousness, pain in the cardiac area. Objectively: HR- 40 bpm, heart sounds are rhythmic, the S1 is dull, periodically amplified. AP is 180/90 mm Hg. What is the most probable cause of hemodynamic disturbances?
Correct answer	Atrioventricular block type III
B	Atrioventricular block type I
C	Bradysystolic form of ciliary arrhythmia
D	Sinus bradycardia
E	Complete left bundle-branch block
№	krok 2007
Topic	CARDIOLOGY
Task	A 35 y.o. patient who suffers from chronic glomerulonephritis and has been hemodialysis-dependent for the last three years developed intermissions of heart activity, hypotension, increasing weakness, dyspnea. ECG showed bradycardia, atrioventricular block type I, high pointed waves T. The day before the flagrant violation of diet took place. What is the most probable cause of these changes?
Correct answer	Hyperkaliemia
B	Hyperhydratation
C	Hypokaliemia
D	Hypernatriemia
E	Hypocalciemia
№	krok 2007

Topic	HEMATOLOGY
Task	A 60 y.o. patient complains of weakness, dizziness, heaviness in the upper part of abdomen, paresthesia of toes and fingers. Objectively: skin icteritiousness, tongue is crimson, smooth. Hepatomegaly. In blood: Hb- 90 g/l, erythrocytes - $2,3 \cdot 10^{12}/l$, reticulocytes 0,2%; color index - 1,2, macrocytosis; Jolly's bodies, Cabot's ring bodies. What medication is the most appropriate for treatment?
Correct answer	Vitamin B12
B	Feroplex
C	Packed red blood cells
D	Prednisolone
E	Dyspherol
№	krok 2007
Topic	GASTROENTEROLOGY
Task	Medical examination of a man revealed "geographic tongue". This microsymptom is the evidence of the following vitamin deficiency:
Correct answer	Vitamins of B group
B	Vitamin A
C	Vitamin C
D	Vitamin D
E	Vitamin P P
№	krok 2007
Topic	GASTROENTEROLOGY
Task	A patient with hepatic cirrhosis drank some spirits that resulted in headache, vomiting, aversion to food, insomnia, jaundice, fetor hepaticus, abdominal swelling. What complication of hepatic cirrhosis is meant?
Correct answer	Hepatocellular insufficiency
B	Hemorrhage from varicosely dilatated veins of esophagus
C	Portal hypertension
D	Acute stomach ulcer

E	Thrombosis of mesenteric vessels
№	krok 2007
Topic	CARDIOLOGY
Task	A 39 y.o. patient complains of having dyspnea during physical activity, crur edemata, palpitation, heart intermissions. Objectively: HR is 150 bpm, atrial fibrillation. Heart is both ways enlarged. Heart sounds are muted. Liver is 6 cm below the costal margin. Echocardiogram reveals di-latation of heart chambers (end diastolic volume of left ventricle is 6,8 cm) is 29% EF, valve apparatus is unchanged. What is the most probable diagnosis?
Correct answer	Dilated cardiomyopathy
B	Exudative pericarditis
C	Restrictive cardiomyopathy
D	Hypertrophic cardiomyopathy
E	Thyreotoxic cardiomyopathy
№	krok 2018
Topic	Hematology
Task	A 32-year-old welder complains of weakness and fever. His illness initially presented as tonsillitis one month earlier. On examination: temperature - 38.9oC , respirations - 24/min., pulse - 100/min., blood pressure - 100/70 mm Hg, hemorrhages on the legs, enlargement of the lymph nodes. Complete blood count shows Hb- 70 g/L, RBC- $2.2 \cdot 10^{12}$ /L, WBC- $3.0 \cdot 10^9$ /L with 32% of blasts, 1% of eosinophiles, 3% of bands, 36% of segments, 20% of lymphocytes, and 8% of monocytes, ESR- 47 mm/hour. What is the cause of anemia in this case?
Correct answer	Acute leukemia
B	Chronic lympholeukemia
C	Aplastic anema
D	B12-deficient anemia
E	Chronic hemolytic anemia
№	krok 2018

Topic	Emergency conditions
Task	During physical exertion a man suddenly developed acute chest pain on the right and dyspnea. Objectively he assumes forced half-sitting position in the bed, presents with diffuse cyanosis, resting tachypnea of 38/min., the right side of the thorax is enlarged and does not participate in the respiratory process; percussion on the right reveals tympanic resonance and absence of respiration. What is the most likely diagnosis in this case?
Correct answer	Spontaneous pneumothorax
B	Hemothorax
C	Lobar pneumonia
D	Pulmonary embolism
E	Acute pleurisy
№	krok 2018
Topic	Gastroenterology
Task	A 34-year-old man on the 3rd day of ceftriaxone treatment for acute otitis (daily dosage - 2 grams) developed diarrhea occurring 5-6 times per day. Feces are without mucus or blood admixtures. Temperature is 36.6oC . Gregersen reaction (occult blood in feces) is negative. Stool culture detected no pathogenic germs. What is the most likely cause of diarrhea in this case?
Correct answer	Antibiotic-associated diarrhea
B	Intestinal dysbiosis
C	Bacterial overgrowth syndrome
D	Ulcerative colitis
E	Crohn's disease (regional enteritis)
№	krok 2018
Topic	Hematology

Task	A 24-year-old patient visited a doctor complaining of enlargement of his submaxillary lymph nodes. Objectively: submaxillary, axillary and inguinal lymph nodes are enlarged. Chest X-ray shows: enlarged lymph nodes of mediastinum. Blood test: erythrocytes - $3.4 \cdot 10^{12}/L$, Hb- 100 g/L, blood colour index - 0.88, platelets - $190 \cdot 10^9/L$, leucocytes - $7.5 \cdot 10^9/L$, eosinophiles - 8%, band neutrophiles - 2%, segmented neutrophiles - 67%, lymphocytes - 23%, ESR - 22 mm/hour. What test must be prescribed to verify the cause of lymphadenopathy?
Correct answer	Open biopsy of the lymph nodes
B	Abdominal US
C	Mediastinum tomography
D	Puncture biopsy of the lymph nodes
E	Sternal puncture
№	krok 2018
Topic	Hematology
Task	A 25-year-old woman complains of fatigue, dizziness, hemorrhagic rashes on the skin. She has been presenting with these signs for a month. Blood test: erythrocytes - $1.0 \cdot 10^{12} /L$, Hb- 37 g/L, colour index - 1.1, leukocytes - $1.2 \cdot 10^9 /L$, platelets - $42 \cdot 10^9/L$. What analysis would be the most advisable for diagnosis-making in this case?
Correct answer	Sternal puncture (bone marrow biopsy)
B	Splenic biopsy
C	Liver biopsy
D	Coagulation studies
E	US of the gastrointestinal tract
№	krok 2018
Topic	Hematology

Task	A 35-year-old man complains of rapidly increasing fatigue, palpitations, "visual snow", dizziness. He has a history of peptic ulcer of the stomach. Objectively the skin is pale. Vesicular respiration is observed in the lungs. Systolic murmur is detected over the cardiac apex, heart rate is 100/min., BP is 100/70 mm Hg. The epigastrium is slightly tender on palpation. Blood test: erythrocytes - $3.2 \cdot 10^{12}/L$, Hb- 100 g/L, color index - 0.94. What type of anemia is the most likely present in this case?
Correct answer	Posthemorrhagic anemia
B	Sideroblastic anemia
C	Iron-deficiency anemia
D	Hemolytic anemia
E	Hypoplastic anemia
№	krok 2018
Topic	Cardiology
Task	A 60-year-old man presents with ischemic heart disease and heart failure of the IV class according to NYHA (New York Heart Association) that manifests as dyspnea at rest. There are moist crackles in the patient's lungs. Liver +4 cm, lower limbs are swollen. Ejection fraction is 25%. What sign is the most indicative when determining functional class of heart failure according to NYHA?
Correct answer	Degree of dyspnea
B	Moist crackles in the lungs
C	Swollen lower limbs
D	Decrease of ejection fraction
E	Extent of liver enlargement
№	krok 2018
Topic	Rheumatology

Task	A 26-year-old woman is suspected to suffer from systemic lupus erythematosus with systemic lesions of skin, vessels, joints, serous tunics, and heart tissue that developed after photosensitization. The following is detected in blood analysis: LE cells, antibodies to native ds-DNA, isolated anticentromere antibodies, rheumatoid factor is 1:100, Wassermann reaction is positive, circulating immune complex is 120 units. What immunological indicators are considered to be specific to this disease?
Correct answer	ds-DNA antibodies
B	Rheumatoid factor
C	Anti-centromere antibodies
D	Immunoglobulin A
E	Increased circulating immune complex
№	krok 2018
Topic	Nephrology
Task	A 23-year-old man complains of facial edema, headache, dizziness, low urinary output, urine discoloration (dark red). These complaints arose after the patient had had a case of acute tonsillitis. On examination there are facial edema, the skin is pale, temperature is 37.4oC ; heart rate is 86/min., blood pressure is 170/110 mm Hg. Heart sounds are muffled, the II heart sound is accentuated over the aorta. What etiological factor is the most likely in this case?
Correct answer	Beta-hemolytic streptococcus
B	Staphylococcus aureus
C	Streptococcus viridans
D	Streptococcus pyogenes
E	Staphylococcus saprophyticus
№	krok 2018
Topic	Rheumatology

Task	An 18-year-old young man complains of pain in his knee and elbow joints and body temperature up to 39.5oC . One week and a half earlier developed sore throat. On examination his body temperature is 38.5oC . Swelling of the knee and elbow joints is observed. Pulse is 106/min., rhythmic. Blood pressure is 90/60Hg. Cardiac borders are unchanged, heart sounds are weakened, at the cardiac apex there is soft systolic murmur. What factor would be the most indicative of the likely disease etiology?
Correct answer	Anti-streptolysin O
B	C-reactive protein
C	Creatine kinase
D	Rheumatoid factor
E	Seromucoid
№	krok 2018
Topic	Gastroenterology
Task	A 32-year-old woman complains of increasing spastic pains in her lower abdomen that occur after emotional stress. Bowel movements are intermittent: 2-3 defecations after waking in the morning alternate with constipations that last for 1-2 days. Objectively body mass is retained, palpation of the sigmoid colon is moderately painful. Hb- 130 g/L, leukocytes - 5.2 g/L, ESR- 9 mm/hour. Rectoromanoscopy is painful due to spastic condition of the intestine, intestinal mucosa is without changes. Intestinal lumen contains large amounts of mucus. What is the most likely diagnosis in this case?
Correct answer	Irritable bowel syndrome
B	Crohn's disease (regional enteritis)
C	Nonspecific ulcerative colitis
D	Acute mesenteric ischemia
E	Malabsorption syndrome
№	krok 2018
Topic	Pulmonology

Task	A 64-year-old man complains of cough with expectoration consisting of blood-streaked mucus, dyspnea, low grade fever and general fatigue. He has been presenting with these symptoms for 3 months. He has been smoking since early adolescence. Objectively to is 37.4oC , respirations are 26/min., pulse is 82/min., rhythmic, blood pressure is 130/85 mm Hg. The right side of the thorax lags behind in the respiratory process, dull percussion sound and acute decrease of breathing activity are observed there. X-ray shows homogeneous shadow of the lung field on the right with mediastinum displacement towards the affected side. What is the most likely diagnosis?
Correct answer	Central lung cancer
B	Exudative pleuritis
C	Pleuropneumonia
D	Pulmonary tuberculosis
E	Multiple bronchiectasis
№	krok 2018
Topic	Nephrology
Task	For 4 days a 35-year-old man has been treated in the resuscitation unit for acute renal failure caused by compartment syndrome. The patient is disoriented. ECG shows high T waves and right ventricular extrasystoles. His central venous pressure is 159 mmH2O; for the last 3 hours auscultation has been detecting isolated moist crackles in the lungs. Respirations are 32/min. Blood test: residual nitrogen – 62mmol/L, K + - 7.1 mmol/L, C l- - 78 mmol/L, N a+ - 120 mmol/L, Ht- 0.32 L/L, Hb- 100 g/L, blood creatinine - 0.9 mmol/L. In this case the most advisable would be to perform:
Correct answer	Hemodialysis
B	Plasmasorption
C	Hemosorption
D	Plasmafiltration
E	Ultrafiltration
№	krok 2018
Topic	Rheumatology

Task	A 55-year-old woman, a cook, complains of pain in her right knee joint that has been troubling her for a month and intensifies in the evening. Objectively she is overweight, the knee joint is swollen, creaks during movement, palpation reveals localized pain. The 1st metatarsophalangeal articulation is deformed on the both feet. No changes in blood and urine are detected. What should be visible on the patient's X-ray?
Correct answer	Joint space narrowing, marginal osteophytes
B	Osteoporosis, joint space narrowing, singular usurations
C	Joint space narrowing, multiple usurations, subluxations
D	Epiphyseal erosions, bony ankylosis
E	Joint space narrowing, round bone defects
№	krok 2018
Topic	Gastroenterology
Task	A 52-year-old woman has been suffering for 2 years from dull, occasionally exacerbating pain in her right subcostal area, occurring after eating high-fat foods, bitter taste in her mouth in the morning, constipations, and flatulence. Objectively she has excess weight, her body temperature is 36.9oC ; there is a coating on the root of her tongue; the abdomen is moderately distended and painful in the area of gallbladder projection. What examination would be the most helpful for diagnosis-making?
Correct answer	Ultrasound
B	Duodenal intubation
C	Cholecystography
D	Duodenoscopy
E	Liver scanning
№	krok 2018
Topic	Hematology

Task	A 57-year-old woman complains of weakness, dyspnea, loss of appetite, and liquid feces. She has been suffering from this condition for 2 years. Objectively she presents with pale skin, subicteric sclera, and bright-red fissured tongue. Lymph nodes are not enlarged. Pulse - 100/min. BP- 105/70 mm Hg. Liver +3 cm, the spleen cannot be palpated. Blood test: erythrocytes - $1.2 \cdot 10^{12}$ /L, Hb- 56 g/L, color index - 1.4, macrocytes, leukocytes - $2,5 \cdot 10^9$ /L, eosinophils - 1%, juvenile - 1%, metamyelocytes - 1%, band neutrophils - 8%, segmented neutrophils - 47%, lymphocytes - 38%, monocytes - 4%, reticulocytes - 0.1%, platelets - $100 \cdot 10^9$ /L, ESR- 30 mm/hour, indirect bilirubin - 26 mmol/L. What changes can be expected in the bone marrow puncture material?
Correct answer	Prevalence of megaloblasts
B	Increased number of sideroblasts
C	Erythroid hyperplasia
D	Presence of blast cells
E	Prevalence of lymphoid tissue
№	krok 2018
Topic	Hematology
Task	A 28-year-old woman complains of skin hemorrhages after minor traumas and spontaneous appearance of hemorrhages on the front of her torso and extremities. On examination: the skin is variegated (old and new hemorrhages), bleeding gums. Blood platelets - $20 \cdot 10^9$ /L; in the bone marrow there is increased number of megakaryocytes and no platelet production. Treatment with steroid hormones was effective. What is the likely diagnosis?
Correct answer	Idiopathic thrombocytopenic purpura
B	Hemophilia
C	Rendu-Osler-Weber disease (Hereditary hemorrhagic telangiectasia)
D	Disseminated intravascular coagulation
E	Acute vascular purpura
№	krok 2018
Topic	Pulmonology

Task	A 23-year-old patient had taken 1 g of aspirin to treat acute respiratory infection. After that he developed an asthmatic fit with labored expiration that was arrested by introduction of aminophylline. The patient's medical history is not burdened with allergies. The patient has undergone two surgeries for nasal polyposis in the past. What diagnosis is most likely?
Correct answer	Aspirin-induced asthma
B	Atopic bronchial asthma
C	Infectious allergic bronchial asthma
D	Exercise-induced asthma
E	Symptomatic bronchospasm
№	krok 2018
Topic	Endocrinology
Task	A 36-year-old man has been complaining of marked weakness, low appetite, and nausea for the last year, year and a half. Within the last year he has lost 10 kg of body mass. The skin is darkened, especially on his face, neck, and arms. Skin folds and nipples are hyperpigmented, there are pigment spots on the patient's inner thighs. Pulse is 60/min., blood pressure is 80/50 mm Hg. What is the provisional diagnosis?
Correct answer	Adrenal insufficiency
B	Diabetes mellitus
C	Chronic gastritis
D	Hemochromatosis
E	Cholestatic hepatitis
№	krok 2018
Topic	Emergency conditions
Task	A 30-year-old patient was hospitalized in an intensive care unit with a diagnosis of multiple bee stings. Skin is pale and covered with cold sweat. Pulse can be palpated only at the carotid arteries and is 110/min.; breathing rate is 24/min., rhythmical, weakened. What drug must be administered immediately?
Correct answer	Epinephrine hydrochloride

B	Prednisolone
C	Norepinephrine hydrochloride
D	Dopamine
E	Tavegyl (Clemastine)
№	krok 2018
Topic	Endocrinology
Task	A 30-year-old woman complains of increased body weight and problems with physical exertion. Her parents are of increased body weight as well; typical meals in their family are high in fats and carbohydrates. Objectively her blood pressure is 135/80 mm Hg, pulse is 89/min., weight is 87 kg, height is 165 cm. The patient's skin is clear, with even distribution of subcutaneous fat; the thyroid gland is not enlarged; there are no menstrual cycle disturbances. What obesity prevention methods would be the most advisable in this case?
Correct answer	Dietary treatment, graduated exercise
B	Intensive training regimen
C	Gastroplasty or gastrojejunal shunt
D	Inhibitors of gastrointestinal lipases
E	Anorectic drugs
№	krok 2018
Topic	Gastroenterology
Task	A patient with chronic pancreatitis complains of diarrhea occurring up to 5 times per day (no blood traces), loss of body weight, abdominal distention, dryness of skin, loss of hair, thirst, bleeding gums, convulsions. Complete blood count: leukocytes - $5.8 \cdot 10^9/L$; Hb- 86 g/L; ESR- 15 mm/g; Blood protein test: total protein - 48 g/L; albumins - 28 g/L. What indicators of coprological analysis would accompany this syndrom?
Correct answer	Steatorrhea, creatorrhea
B	Large amount of mucus, amyloorrhea
C	Large amount of starch grains and cellulose

D	Gas bubbles, acid reaction
E	Large numbers of iodophilous microbes
№	krok 2018
Topic	Nephrology
Task	After overexposure to cold a 45-year-old woman developed acute pain in her suprapubic and lumbar areas during urination, sharp pains at the end of urination, false urges to urinate. Urine is turbid with blood streaks. The doctor suspects urinary tract infection. What results of laboratory analysis would be the most indicative of such infection?
Correct answer	Leukocyturia, gross hematuria
B	Gross hematuria
C	Increased blood creatinine and blood urea
D	Daily proteinuria under 3.0
E	Daily proteinuria over 3.0
№	krok 2018
Topic	Hematology
Task	A 38-year-old patient has been delivered by an ambulance to a surgical department with complaints of general weakness, indisposition, black stool. On examination the patient is pale, there are dotted hemorrhages on the skin of his torso and extremities. On digital investigation there are black feces on the glove. Blood test: Hb- 108 g/L, thrombocytopenia. Anamnesis states that similar condition was observed 1 year ago. Make the diagnosis:
Correct answer	Thrombocytopenic purpura
B	Hemophilia
C	Bleeding from an ulcer
D	Rectal tumor
E	Nonspecific ulcerative colitis
№	krok 2018
Topic	Emergency conditions

Task	A 19-year-old student was urgently hospitalized due to marked dyspnea and chest pain on the left. Her body temperature is 38.8oC . She has been presenting with these signs for 3 days. Respiratory rate is 42/min., shallow. Percussion sound is dull to the left from the center of the scapula, no respiration can be auscultated. The left heart border is displaced outwards by 3 cm. Embryocardia and heart rate of 110/min are observed. Palpation of the right subcostal area is painful. What urgent measures should be taken in this case?
Correct answer	Urgent thoracocentesis
B	Prescription of penicillin antibiotics
C	Administration of furosemide
D	Administration of cardiac glycosides
E	Referral into thoracic surgery unit
№	krok 2018
Topic	Cardiology
Task	A 72-year-old man complains of lower extremity edema, sensation of heaviness in the right subcostal area, dyspnea in rest. For over 25 years he has been suffering from COPD. Objectively: orthopnea, jugular venous distention, diffuse cyanosis, acrocyanosis. Barrel chest is observed, on percussion there is vesiculotympanitic (bandbox) resonance, sharply weakened vesicular respiration on both sides, moist crepitant crackles in the lower segments of the lungs. Heart sounds are weakened, the II heart sound is accentuated over the pulmonary artery. The liver is +3 cm. What complicated the clinical course of COPD in this patient?
Correct answer	Chronic pulmonary heart
B	Pulmonary embolism
C	Acute left ventricular failure
D	Diffuse pneumosclerosis
E	Community-acquired pneumonia
№	krok 2018
Topic	Pulmonology

Task	A 72-year-old man with pneumonia complains of marked dyspnea, chest pain, severe cough with expectoration, to is 39.5-40°C, no urination for a whole day. Objectively the patient is conscious. Respiratory rate is 36/min. Over the right lower pulmonary lobe percussion sound is dull; on auscultation there is bronchial respiration and numerous moist crackles. Blood pressure is 80/60 mm Hg. Heart rate is 120/min. Heart sounds are muffled, there is tachycardia. What tactics should the family doctor choose in the management of this patient?
Correct answer	Hospitalization into intensive care unit
B	Outpatient treatment
C	Treatment in the day patient facility
D	Hospitalization into pulmonology unit
E	Hospitalization into neurology unit
№	krok 2018
Topic	Endocrinology
Task	A 72-year-old woman suffers from diabetes mellitus type II, concomitant diseases are stage II hypertension and stage IIB heart failure. She takes metformin. Hypertensive crisis had occurred the day before, after which the patient developed extreme weakness, myalgias, thirst, dry mouth, polyuria. BP is 140/95 mm Hg, heart rate is 98/min., no edemas or smell of acetone detected. What measures should be taken to prevent development of comatose state in the patient?
Correct answer	Stop metformin, prescribe short-acting insulin
B	Double the dosage of metformin
C	Apply hypotonic solution of sodium chloride
D	Additionally prescribe long-acting insulin
E	Prescribe glibenclamide
№	krok 2018
Topic	Cardiology

Task	A 36-year-old man complains of marked dyspnea and cardiac pain. He ascribes his disease to the case of influenza that he had 2 weeks ago. Objectively he leans forward when sitting. The face is swollen, cyanotic, cervical veins are swollen. Heart borders are extended on the both sides, heart sounds are muffled, heart rate = Ps = 118/min., BP is 90/60 mm Hg. Blood test: ESR is 16 mm/hour. ECG shows low voltage. X-ray shows trapezoidal cardiac silhouette and signs of pulmonary congestion. Choose the treatment tactics:
Correct answer	Pericardial puncture (pericardiocentesis)
B	Diuretics
C	Antibiotics
D	Pericardectomy
E	Glucocorticosteroids
№	krok 2018
Topic	Rheumatology
Task	A 25-year-old patient is not married and has sexual relations with several partners. During the last 3 months he noticed small amount of mucoserous secretions produced from urethra. Subjectively: periodical itching or burning pain in urethra. Two months ago pain in knee join developed. Possibility of trauma or exposure to cold is denied by the patient. During the last week eye discomfort is noted - lacrimation and itching. What provisional diagnosis can be suggested?
Correct answer	Reactive arthritis
B	Rheumatoid arthritis
C	Seasonal pollinosis
D	Bacterial nonspecific urethral conjunctivitis
E	URTI with conjunctiva and joints affected
№	krok 2018
Topic	Endocrinology

Task	A woman complains of weight gain, chills, edema, xeroderma, somnolence, difficulties with focusing. Objectively: height is 165 cm; weight is 90 kg; body proportions are of female type, to- 35,8oC , heart rate - 58/min., BP- 105/60 mm Hg. Heart sounds are weakened, bradycardia is observed. Other internal organs have no alterations. Thyroid gland cannot be palpated. Milk secretion from mammary glands is observed. Hormone test revealed increased levels of thyroid-stimulating hormone (TSH) and prolactin, and decreased level of thyroxine (4). What is the cause of obesity?
Correct answer	Primary hypothyroidism
B	Secondary hypothyroidism
C	Prolactinoma
D	Hypopituitarism
E	Adiposogenital dystrophy
№	krok 2018
Topic	Gastroenterology
Task	A 54-year-old patient complains of weakness, jaundice, itching skin. Disease onset was 1.5 months ago: fever up to 39oC appeared at first, with progressive jaundice developed 2 weeks later. On hospitalisation jaundice was severely progressed. Liver cannot be palpated. Gallbladder is enlarged and painless. Blood bilirubin is 190 mcmol/L (accounting mainly for direct bilirubin). Stool is acholic. What is the most likely reason for jaundice in this patient?
Correct answer	Mechanical jaundice
B	Hepatocellular jaundice
C	Hemolytic jaundice
D	Caroli syndrome
E	Gilbert's syndrome
№	krok 2018
Topic	Pulmonology

Task	A 45-year-old woman underwent one year ago mastectomy followed by chemo- and radiation therapy. She now complains of dyspnea at rest and temperature up to 37.2oC . Her general condition is severe, acrocyanosis is observed. The right side of her chest practically does not participate in respiration. Percussion reveals a dull sound below the 3rd rib; auscultation detects acute weakening of the respiratory sounds. Pleural puncture on the right has yielded a large amount of hemorrhagic exudate. What complication has developed in the patient?
Correct answer	Carcinomatous pleuritis
B	Acute pleural empyema
C	Acute right-sided pleuropneumonia
D	Right lung abscess
E	Pulmonary embolism
№	krok 2018
Topic	Gastroenterology
Task	A 60-year-old man complains of discomfort when swallowing solid food, which he has been observing for a month. He changed his diet to semiliquid food products. At first the discomfort had abated but later it renewed despite the change in the diet. The patient developed gaseous eructation and hoarse voice. What examination should be performed to clarify the diagnosis?
Correct answer	Esophagoscopy with biopsy
B	Urea breath test for H. pylori
C	Diurnal variations of ECG parameters
D	Esophageal pH monitoring
E	Abdominal US
№	krok 2018
Topic	Emergency conditions

Task	A patient has gradually lost consciousness. The skin is pale and dry. There is smell of ammonia from the mouth. Respirations are deep and noisy. Heart sounds are muffled, pericardial friction rub is present. Blood pressure is 180/130 mm Hg. Blood test: Hb- 80 g/L, leukocytes - $12 \cdot 10^9/L$, blood glucose - 6.4 mmol/L, urea - 50 mmol/L, creatinine - 1200 $\mu\text{mol/L}$, blood osmolality - 350 mOsmol/kg H ₂ O. No urinary excretion. Make the diagnosis:
Correct answer	Uremic coma
B	Hyperglycemic coma
C	Acute renal failure
D	Acute disturbance of cerebral circulation
E	Hyperosmolar coma
№	krok 2018
Topic	Endocrinology
Task	A 32-year-old woman complains of body weight loss despite her increased appetite, nervousness, and tremor of the extremities. Objectively: the skin is moist; the thyroid gland is diffusely enlarged, painless, soft, and mobile. Blood test: increased level of T ₃ , T ₄ , and decreased thyroid-stimulating hormone (TSH). What is the most likely diagnosis?
Correct answer	Diffuse toxic goiter
B	Thyroid carcinoma
C	Autoimmune (Hashimoto's) thyroiditis
D	Thyroid adenoma
E	Diffuse nontoxic goiter
№	krok 2018
Topic	Cardiology

Task	A 64-year-old man suddenly sensed pain in his occipital area, dizziness, general weakness. He has a 15-year-long history of hypertension. Objectively the skin and mucosa are of normal color. Auscultation reveals vesicular respiration across the lung surface. At the cardiac apex the I heart sound is weakened, the II heart sound is accentuated over the aorta. Pulse is 84/min., blood pressure is 180/100 mm Hg. Other body organs and systems are unaffected. What drug should be prescribed in the first place?
Correct answer	Captopril
B	Ramipril
C	Urapidil
D	Perindopril
E	Amlodipine
№	krok 2018
Topic	Endocrinology
Task	A 39-year-old man suffers from chronic adrenal insufficiency and receives replacement glucocorticoid therapy (hydrocortisone - 15 mg/day). He is to undergo elective surgery for calculous cholecystitis. What medication adjustment should be made on the day of the surgery to prevent the development of acute adrenal insufficiency?
Correct answer	Increase the dosage by 2-3 times
B	Cancel the drug for the day of the surgery
C	Add mineralocorticoid
D	Add antibiotic
E	Prescribe large volume intravenous fluid infusion
№	krok 2018
Topic	Endocrinology
Task	On ultrasound of the thyroid gland, a 47-year-old woman presents with a hypoechoic node 1.6 cm in diameter with blurred margins and intranodular hypervascularization. The doctor suspects thyroid carcinoma. What method should be used to verify the diagnosis?
Correct answer	Fine-needle aspiration biopsy

B	Thyroid scintigraphy
C	Case monitoring
D	Determine TSH level in the blood
E	Positron emission tomography (PET)
№	krok 2018
Topic	Pulmonology
Task	A 19-year-old young man complains of cough with expectoration of purulent sputum in amount of 100 ml per day, hemoptysis, dyspnea, increased body temperature up to 37.8oC , general weakness, weight loss. The patient's condition has been persisting for 4 years. Exacerbations occur 2-3 times per year. The patient presents with malnutrition, pale skin, cyanosis of the lips, drumstick (clubbed) fingers. Tympanic percussion sound in the lungs, weakened respiration, various numerous moist crackles in the lower pulmonary segments on the left can be observed. In blood: erythrocytes - $3.2 \cdot 10^{12}/L$, leukocytes - $8.4 \cdot 10^9/L$, ESR- 56 mm/hour. On X-ray: lung fields are emphysematous, the left pulmonary root is deformed and dilated. What is the most likely diagnosis?
Correct answer	Multiple bronchiectasis of the left lung
B	Chronic left-sided pneumonia
C	Chronic abscess of the left lung
D	Left-sided pulmonary cystic dysplasia
E	Suppuration of the cyst in the left lung
№	krok 2018
Topic	Endocrinology
Task	A 44-year-old woman has undergone subtotal thyroid resection due to diffuse toxic goiter. On the second day after the surgery the patient's condition deteriorated; she developed palpitations, dyspnea, sweating, and diarrhea, and became fearful The patient is anxious, her skin is moist and hot to the touch. Her temperature is 39.2oC . Heart sounds are muffled, tachycardia is observed, pulse is 160/min., blood pressure is 85/40 mm Hg. The stomach is soft and painless. What should be measured to clarify the patient's condition?

Correct answer	Thyroid hormones
B	Blood sugar
C	17-KS and 17-OCS in urine
D	Blood epinephrine and norepineprine
E	Serum transaminases
№	krok 2018
Topic	Rheumatology
Task	A 45-year-old woman has been suffering from rheumatoid arthritis for 10 years and takes methotrexate twice a week. What statement regarding vaccination against pneumococci (23-valent vaccine) would conform to the recommendations for the management of rheumatoid arthritis issued by the European League Against Rheumatism in 2010?
Correct answer	Vaccination is recommended
B	Vaccination is not recommended
C	Vaccination is contraindicated to the patients who take methotrexate
D	Vaccination is contraindicated in cases when inflammatory process is active
E	Vaccination necessitates increase in the dosage of the long-term medicines
№	krok 2018
Topic	Rheumatology
Task	A 65-year-old woman was diagnosed with the following: chronic rheumatic heart disease, I degree of rheumatic activity; combined mitral heart disease with prevalence of III degree stenosis; heart failure IIA with retained left ventricular ejection fraction, functional class II (NYHA). What tactics of vaccination against respiratory infections should be chosen to provide secondary prevention of exacerbations and to avoid heart failure decompensation in this patient?
Correct answer	Scheduled yearly vaccination against influenza and pneumococci
B	Vaccination should be combined with antibiotic administration
C	Vaccination is contraindicated due to severe heart failure
D	Any vaccination is contraindicated due to elderly age of the patient

E	Any vaccination is contraindicated due to mitral valve disease
№	krok 2018
Topic	Cardiology
Task	A 69-year-old woman was diagnosed with the following: ischemic heart disease; stable exertional angina pectoris, FC III; heart failure IIA with retained left ventricular ejection fraction, functional class III (NYHA). What vaccine should be chosen for influenza prevention and to avoid destabilization of the patient's condition?
Correct answer	Type of influenza vaccine is not important
B	Inactivated influenza vaccine (IIV)
C	Recombinant influenza vaccine (RIV)
D	Vaccination is contraindicated due to severe heart failure
E	Vaccination is contraindicated due to elderly age of the patient
№	krok 2018
Topic	Gastroenterology
Task	A 60-year-old man presents with subcompensated viral liver cirrhosis (HCV), Child-Pugh class B. What tactics should be chosen regarding the vaccination against influenza in this case?
Correct answer	Scheduled yearly vaccination
B	In case of influenza outbreak
C	Combined with antiviral drugs
D	Contraindicated due to disease progression stage, as shown by Child-Pugh class
E	Contraindicated due to elderly age of the patient
№	krok 2018
Topic	Cardiology
Task	In autumn a 45-year-old man was recommended an elective surgery for coronary artery bypass grafting due to multivessel coronary artery disease. The patient has never received anti-influenza vaccination. Why would the family doctor offer a scheduled yearly vaccination against influenza to this patient?
Correct answer	Decrease the risk of mortality due to pneumonia and heart failure

B	Secondary prevention of exacerbations of chronic ischemic heart disease
C	Immunoprophylaxis of postoperative pulmonary complications
D	Primary prevention of influenza during postoperative care
E	Prevention of seasonal influenza
№	krok 2018
Topic	Emergency conditions
Task	A 28-year-old woman has made an appointment with the family doctor to receive vaccination against influenza. However, having collected the patient's medical history, the doctor claimed this procedure to be absolutely contraindicated for this woman. What anamnestic data is the absolute contraindication to vaccination?
Correct answer	Egg white intolerance
B	Pregnancy at 30 weeks
C	Blood hemoglobin - 109 g/L
D	Body temperature - 37.2oC
E	Psoriasis in the remission phase
№	krok 2019
Topic	Hematology
Task	A 35-year-old man complains of rapidly increasing fatigue, palpitations, "visual snow", and dizziness. He has a history of peptic ulcer of the stomach. Objectively the skin is pale, Vesicular respiration is observed in the lungs. Systolic murmur is detected over the cardiac apex, heart rate is 100/min., BP is 100/70 mm Hg. The epigastrium is slightly tender on palpation. Blood test: erythrocytes - $3.2 \times 10^{12}/L$, Hb- 100 g/L, color index - 0.95. What type of anemia is the most likely present in this case?
Correct answer	Posthemorrhagic anemia
B	Hemolytic anemia
C	Sideroblastic anemia
D	Hypoplastic anemia
E	Chronic iron-deficiency anemia

№	krok 2019
Topic	Hematology
Task	A 63-year-old man complains of unmotivated weakness and pressing and bursting sensation in the left subcostal area. According to him, these signs have been present for a year already. Previously he was healthy. He took part in containment measures during the accident at the Chernobyl Nuclear Power Plant. Objectively: the skin is pale, peripheral lymph nodes are not enlarged, the liver is +3 cm, the spleen is +10 cm. Complete blood count: erythrocytes - $3.1 \times 10^{12}/L$, Hb- 100 g/L, leukocytes - $46 \times 10^9/L$. blasts - 2%, promyelocytes - 10%, myelocytes - 18%, band neutrophils - 27%, segmented neutrophils - 10%, lymphocytes - 12%, eosinophils ~ 6%, basocytes - 3%, monocytes - 2%, erythrocyte sedimentation rate - 20 mm/hour. What is the most likely diagnosis?
Correct answer	Chronic myeloid leukemia
B	Hepatic cirrhosis
C	Chronic lymphatic leukemia
D	Acute leukemia
E	Hemolytic anemia
№	krok 2019
Topic	Cardiology
Task	A 57-year-old patient complains of dyspnea at rest. The patient presents with orthopnea, acrocyanosis, bulging cervical veins. On percussion: dull sound over the lower lung segments. On auscultation: no respiratory sounds. Heart rate is 92/min. Right-sided cardiac dilatation is observed. The liver is +7 cm. Shins are swollen. Pleural effusion is suspected. What indicator would confirm the presence of transudate in this case?
Correct answer	Total protein content in the pleural fluid below 25 g/L
B	Positive Rivalta's test
C	Specific gravity exceeding 1015
D	Total protein content in the pleural fluid exceeding 30 g/L
E	Presence of atypical cells

№	krok 2019
Topic	Rheumatology
Task	A 55-year-old woman complains of pain and popping sounds in her left knee joint, which occur when she climbs the stairs. Occasionally during movements her joint becomes “stuck” 5 years ago she suffered a trauma of her left knee. Complete blood count and biochemical blood analysis show normal results. X-ray shows marked osteosclerosis and osteophytes. The joint space is narrowed. Make the provisional diagnosis:
Correct answer	Osteoarthritis
B	Reactive arthritis
C	Psoriatic arthritis
D	Gouty arthritis
E	Rheumatoid arthritis
№	krok 2019
Topic	Cardiology
Task	A 45-year-old man developed constricting retrosternal pain that occurs during walks at the distance of 200 m. Objectively: heart rate is 80/min.. BP is 160/90 mm Hg. During cardiopulmonary exercise test at 50 W there is a depression of S-T segment by 3 mm below the isoline in V3-V4. What is the provisional diagnosis?
Correct answer	Exertional angina pectoris, functional class III
B	Exertional angina pectoris, functional class IV
C	Alcoholic myocardiodystrophy
D	Exertional angina pectoris, functional class II
E	Somatoform hypertension type autonomic dysfunction,
№	krok 2019
Topic	Rheumatology

Task	For three years a 31-year-old woman has been complaining of pain and swelling of her radiocarpal and metacarpophalangeal articulations and their reduced mobility in the morning, which persisted up to 1.5 hours. Two weeks ago she developed pain, swelling, and reddening of her knee joints, her body temperature increased up to 37.5oC. The treatment was untimely. Examination of the internal organs revealed no pathologic alterations. Diagnosis of rheumatoid arthritis was made. What changes are most likely to be visible on the arthrogram?
Correct answer	Joint space narrowing, usuration
B	Joint space osteosclerosis
C	Numerous marginal osteophytes
D	Cysts in the subchondral bone
E	Epiphyseal osteolysis narrowing, subchondral
№	krok 2019
Topic	Hematology
Task	A 58-year-old man complains of weakness and tumor-like formations that appeared on the anterior surface of his neck and in the inguinal region. Palpation detects soft painless mobile cervical and inguinal lymph nodes up to 2 cm in diameter, The liver protrudes by 2 cm from the edge of the costal margin, the lower splenic pole is at the umbilical level. In blood: erythrocytes - $3.5 \times 10^{12}/L$, Hb- 88 g/L. leukocytes - $86 \times 10^9/L$, band neutrophils - 1%, segmented neutrophils - 10%, lymphocytes - 85%, eosinophils - 2%, basocytes - 0%, monocytes - 2%, erythrocyte sedimentation rate - 15 mm/hour, Gumprecht shadows. What is the most likely diagnosis?
Correct answer	Lymphogranulomatosis
B	Lymphocytic leukemoid reaction
C	Chronic lymphatic leukemia
D	Acute leukemia
E	Chronic myeloleukemia
№	krok 2019
Topic	Gastroenterology

Task	A 46-year-old woman has diarrhea with abdominal distension, loss of body mass,- and large amounts of porridge-like foul- smelling stool without blood streaks or tenesmus. Objective examination detects moderate tenderness in the mesogastrium and left abdominal flank. Feces analysis detects steatorrhea with neutral fat and creatorrhea. What prescription would be the most advisable in this case?
Correct answer	Multi-enzyme preparations
B	Antacids and antispasmodics
C	Cholinergic antagonists and antibacterial agents
D	Cholinergic antagonists
E	Metronidazole and loperamide
№	krok 2019
Topic	Endocrinology
Task	A 32-year-old woman complains of body weight loss despite her increased appetite, nervousness, and tremor of the extremities. Objectively: the skin is moist; the thyroid gland is diffusely enlarged, painless, soft, and mobile. Blood test: increased level of T3, T4, and thyroid-stimulating hormone (THS). What is the most likely diagnosis?
Correct answer	Diffuse toxic goiter
B	Autoimmune (Hashimoto's) thyroiditis
C	Diffuse nontoxic goiter
D	Thyroid carcinoma
E	Thyroid adenoma
№	krok 2019
Topic	Endocrinology
Task	A 48-year-old woman has been hospitalized due to development of tachysystolic atrial fibrillation. She has lost 5 kg of body weight within 2 months. On palpation there is a node in the left lobe of the thyroid gland. What pathology resulted in the development of this condition?
Correct answer	Toxic nodular goiter
B	Autoimmune thyroiditis

C	Chronic thyroiditis
D	Nontoxic nodular goiter
E	Atherosclerotic cardiosclerosis
№	krok 2019
Topic	Pulmonology
Task	A 19-year-old young man complains of cough with expectoration of purulent sputum in the amount of 100 mL per day, hemoptysis, dyspnea, increased body temperature up to 37.8oC, general weakness. weight loss. The patient's condition lasts for 4 years. Exacerbations occur 2-3 times a year. The patient presents with malnutrition, pale skin, cyanosis of the lips. Drumstick (clubbed) fingers. Tympanic percussion sound in the lungs, weakened respiration, numerous various moist crackles in the lower pulmonary segments on the left can be observed. In blood: erythrocytes - $3.2 \times 10^{12}/L$, leukocytes - $8.4 \times 10^9/L$, ESR- 56 mm/hour. On X-ray: lung fields are emphysematous, the left pulmonary root is deformed and dilated. What is the most likely diagnosis?
Correct answer	Multiple bronchiectasis of the left lung
B	Chronic abscess of the left lung
C	Left-sided pulmonary cystic dysplasia
D	Chronic left-sided pneumonia
E	Suppuration of the cyst in the left lung
№	krok 2019
Topic	Emergency conditions
Task	After eating shrimps a 25-year-old man suddenly developed skin itching. some areas of his skin became hyperemic or erupted into vesicles. Make the diagnosis:
Correct answer	Acute urticaria
B	Psoriasis
C	Urticaria pigmentosa
D	Scabies
E	Hemorrhagic vasculitis (Henoch-Schonlein purpura)

№	krok 2019
Topic	Rheumatology
Task	A 40-year-old man with Bekhterev disease (ankylosing spondylitis) complains of elevated body temperature up to 378°C, back pain and stiffness, especially observed during the second half of the night. This condition has been lasting for 2 years. Objectively: reduced spinal mobility, painful sacroiliac joint, erythrocyte sedimentation rate - 45 mm/hour. X-ray shows narrowing of the intervertebral disc space and Of the sacroiliac joint. What eye pathology is often associated with this type of disease progression?
Correct answer	Iridocyclitis
B	Cataract
C	Blepharitis
D	Retinal detachment
E	Optic nerve atrophy
№	krok 2019
Topic	Nephrology
Task	A 34-year-old man complains of pale edema of the face, feet, shins. and lumbar area. elevated blood pressure up to 160/ 100 mm Hg. and general weakness. He has a clinical history of nonspecific ulcerative colitis. Objectively: pulse - 84/min.. rhythmic. blood pressure - 165/100 mm Hg; edemas all over the body: the skin is pale and dry. With low turgor. The kidneys cannot be palpated. on an attempt to palpate them they are painless. Blood test: erythrocytes - $3.0 \times 10^{12}/L$, Hb- 100 g/L, erythrocyte sedimentation rate - 50 mm/hour. Urinalysis: proteins - 3.5 g/L, erythrocytes - 7-10 in the Vision field, leukocytes - 5-6 in the vision field. Daily proteinuria - 6 grams. What analysis should be conducted additionally to verify the diagnosis?
Correct answer	Gingival biopsy for the diagnosis of amyloid disease
B	Renal ultrasound
C	Urinalysis for Bence-Jones protein
D	Radioisotopic examination of kidneys
E	Survey and excretory urography

№	krok 2019
Topic	Rheumatology
Task	An 18-year-old young man complains of pain in his knee and elbow joints and body temperature up to 39.5 C. One week and a half earlier he developed sore throat. On examination his body temperature is 38,5°C. Swelling of the knee and elbow joints is observed. Pulse is 106/min., rhythmic. Blood pressure is 90/60 mm Hg. Cardiac borders are unchanged, heart sounds are weakened. At the cardiac apex there is a soft systolic murmur. What factor would be the most indicative of the likely disease etiology?
Correct answer	Anti-streptolysin O
B	Seromucoid
C	Rheumatoid factor
D	Creatine kinase
E	C-reactive protein
№	krok 2019
Topic	Cardiology
Task	A 38-year-old woman after physical overexertion suddenly developed palpitations, dyspnea, and a dull pain in the cardiac area. For 10 years she has been registered for regular check-ups due to rheumatism and mitral valve disease with non-disturbed blood circulation. Objectively her pulse is 96/min., of unequal strength. Blood pressure is 110/70 mm Hg, heart rate is 120/min. ECG registers small unevenly-sized waves in place of P-waves, R- R intervals are of unequal length. What is the most likely diagnosis?
Correct answer	Atrial fibrillation
B	Respiratory arrhythmia
C	Paroxysmal supraventricular tachycardia
D	Paroxysmal ventricular tachycardia
E	Atrial flutter
№	krok 2019
Topic	Endocrinology

Task	A 35-year-old man suffers from insulin-dependent diabetes mellitus and chronic cholecystitis. He takes NPH insulin: 20 units in the morning and 12 units in the evening. After a meal he developed pain in the right subcostal area, nausea, vomiting, sleepiness, and increased polyuria. What prehospital measures will be the most effective for prevention of crisis within the next several hours?
Correct answer	Change insulin regimen
B	Decrease carbohydrates in the diet
C	Take analgesics
D	Exclude fats from the diet
E	Take cholagogues
№	krok 2019
Topic	Emergency conditions
Task	A chronic alcoholic was hospitalized into the therapeutic inpatient unit due to pneumonia. On the day 5 of his hospitalization he became disoriented in time and space. developed fear-inducing visual hallucinations and motor agitation. Full body tremor and tremor of the limbs are observed. X-ray and physical examinations detect the signs of his convalescence from pneumonia. What tactics should be chosen regarding this patient?
Correct answer	Transfer into the inpatient narcology department
B	Discharge from the hospital
C	Continue the treatment in the therapeutic department
D	Transfer into the neuroresuscitation department
E	Compulsory medical treatment for alcoholism
№	krok 2019
Topic	Gastroenterology
Task	A 34-year-old man on the 3rd day of ceftriaxone treatment for acute otitis (daily dosage - 2 grams) developed diarrhea occurring 5-6 times per day. Feces are without mucus or blood admixtures. Temperature is 36.6 C. Gregersen reaction (occult blood in feces) is negative. Stool culture detected no pathogenic germs. What is the most likely cause of diarrhea in this case?

Correct answer	Antibiotic-associated diarrhea
B	Crohn's disease (regional enteritis)
C	Ulcerative colitis
D	Bacterial overgrowth syndrome
E	Intestinal dysbiosis
№	krok 2019
Topic	Emergency conditions
Task	At night a 63-year-old woman suddenly developed an asphyxia attack. She has a 15- year-long history of essential hypertension and had a myocardial infarction 2 years ago. Objectively her position in bed is orthopneic, the skin is pale, the patient is covered with cold sweat, acrocyanosis is observed. Pulse = 104/min. Blood pressure - 210/130 mm Hg, respiration rate - 38/min. Pulmonary percussion sound is clear. with slight dullness .in the lower segments; throughout the lungs single dry crackles can be heard that become bubbling and non-resonant in the lower segments. What is the most likely complication in this patient?
Correct answer	Acute left ventricular failure
B	Paroxysmal tachycardia
C	Pulmonary embolism
D	Acute right ventricular failure
E	Bronchial asthma attack
№	krok 2019
Topic	Hematology
Task	A 23-year-old man complains of severe pain in his left knee joint. Objectively the left knee joint is enlarged, with hyperemic skin. painful on palpation. Complete blood count: erythrocytes - $3.8 \times 10^{12}/L$, Hb- 122 g/L, leukocytes - $7.4 \times 10^9/L$, platelets - $183 \times 10^9/L$. Erythrocyte sedimentation rate - 10 mm/hour. Bleeding time (Duke method) - 4 min.. Lee- White coagulation time - 24 min. Partial thromboplastin time (activated) - 89 seconds. Rheumatoid factor - negative. What is the most likely diagnosis?

Correct answer	Hemophilia, hemarthrosis
B	Rheumatoid arthritis
C	Werlhof disease (immune thrombocytopenia)
D	Hemorrhagic vasculitis (Henoch-Schonlein purpura), articular form
E	Thrombocytopathy
№	krok 2019
Topic	Pulmonology
Task	A woman with atopic bronchial asthma was found to have one allergen to dog hair +++ . Carpets were removed from the apartment, the apartment was renovated, and air conditioner was installed. However, recurrent asphyxia attacks still occur every night, despite the patient undergoing pathogenetic therapy. What long-term treatment tactics can help this patient to decrease her sensitivity to the allergen?
Correct answer	Specific hyposensitization
B	Continuation of prior treatment
C	Antihistamine therapy
D	Buteyko breathing technique
E	Referral for speleotherapy
№	krok 2019
Topic	Emergency conditions
Task	A 45-year-old man with thrombophlebitis of the deep veins in his legs suddenly after physical exertion developed sharp pain in his thorax on the right, dyspnea, and hemoptysis. Objectively his condition is severe; he presents with acrocyanosis, shortening of pulmonary percussion sound on the right, and weakened respiration. Respiration is 30/min.. blood pressure is 110/80 mm Hg. ECG shows sinus tachycardia. heart rate is 120/min., electrical axis of the heart deviates to the right. SI-QIII. What is the most likely diagnosis?
Correct answer	Pulmonary embolism
B	Spontaneous pneumothorax
C	Right-sided exudative pleurisy

D	Cancer of the right lung
E	Community-acquired right-sided pneumonia
№	krok 2019
Topic	Rheumatology
Task	A 37-year-old patient complains of pain in the spinal column, reduced mobility. The condition persists for 7 years. "Swan back" is observed, there is no movement in all spinal regions. X-ray shows "bamboo spine" vertebral column. What is the most likely diagnosis?
Correct answer	Ankylosing spondyloarthritis
B	Spondylolisthesis
C	Tuberculous spondylitis
D	Osteochondrosis
E	Spondylitis deformans
№	krok 2019
Topic	Nephrology
Task	A man was brought into the admission room after an overexposure to cold. He complains of sharp pain in the small of his back and elevated body temperature up to 38°C. He took some aspirin. Blood test: leukocytes - $10.5 \times 10^{12}/L$, eosinophils - 5%, band neutrophils - 8%, segmented neutrophils - 51%, lymphocytes - 32%, monocytes - 4%, erythrocyte sedimentation rate - 28 mm/hour. Urinalysis: protein - 0.6 g/L, leukocytes - cover the whole Vision field, large amount of mucus. What is the most likely diagnosis?
Correct answer	Acute pyelonephritis
B	Acute glomerulonephritis
C	Chronic pyelonephritis
D	Subacute malignant glomerulonephritis
E	Tubulointerstitial nephritis
№	krok 2019
Topic	Endocrinology

Task	A 32-year-old woman complains of tumor-like formation on the anterior surface of her neck that appeared 2 years ago. Within the last 3 months the tumor has been rapidly growing. It hinders swallowing and impairs
Correct answer	speech; the tumor causes a sensation of pressure. Objectively the skin moisture is normal, pulse is 80/min., rhythmic, blood pressure is 130/80 mm Hg. In the right lobe of the thyroid gland there is a dense lumpy node 3.0X3.5 cm that moves during swallowing. Scanning image shows a "cold nodule" in the thyroid gland. Make the provisional diagnosis:
B	Thyroid cyst
C	Autoimmune thyroiditis
D	Thyroid adenoma
E	Nodular goiter
	Thyroid cancer
№	krok 2019
Topic	Cardiology
Task	A 72-year-old man complains of lower extremity edema, sensation of heaviness in the right subcostal area, dyspnea at rest. For over 25 years he has been suffering from COPD. Objectively: orthopnea, jugular venous distention, diffuse cyanosis, acrocyanosis. Barrel chest is observed, on percussion there is a vesiculotympanic (bandbox) resonance. sharply weakened vesicular respiration on both sides. moist crepitant crackles in the lower segments of the lungs. Heart sounds are weakened, the II heart sound is accentuated over the pulmonary artery. The liver is +3 cm. What complicated the clinical course of COPD in this patient?
Correct answer	Chronic pulmonary heart
B	Pulmonary embolism
C	Diffuse pneumosclerosis
D	Acute left ventricular failure
E	Community-acquired pneumonia
№	krok 2019

Topic	Gastroenterology
Task	A 52-year-old man for the last 3 years has been suffering from difficult swallowing of solid food. burning retrosternal pain that aggravated during eating, loss of body mass, and occasional vomiting with undigested food. Esophageal X-ray shows S-shaped deformation of the esophagus and its dilation; at the cardiac orifice the esophagus is constricted: esophageal mucosa is smooth, without signs of peristalsis. Make the provisional diagnosis:
Correct answer	Esophageal achalasia
B	Diaphragmatic hernia
C	Reflux esophagitis
D	Esophageal diverticulum
E	Esophageal carcinoma
№	krok 2019
Topic	Pulmonology
Task	A 65-year-old man complains of dyspnea, severe cough with expectoration of small amounts of blood-streaked sputum, weight loss, body temperature 37.2oC, loss of appetite, and weakness. He has been suffering from this condition for years. The patient's condition deteriorated one year ago, dyspnea developed 3 weeks ago. The patient is a lifelong smoker. He is a carpenter by occupation. Objectively he is of normal body type but emaciated. Right side of the chest is retracted, excursions are limited, accessory muscles take part in the respiration, respiratory rate is 22/min. Percussion detects dull sound over the right upper segment. Chest X-ray shows shrunken right upper lobe with homogeneous shadow connected to the root of the lung; the root is deformed; mediastinal organs are displaced to the right. What is the most likely diagnosis?
Correct answer	Pulmonary tuberculosis
B	Pulmonary sarcoidosis
C	Complete right-sided pneumothorax
D	Fibrosing alveolitis
E	Obstructive atelectasis

№	krok 2019
Topic	Endocrinology
Task	A 39-year-old man suffers from chronic adrenal insufficiency and receives replacement glucocorticoid therapy (hydrocortisone – 15 mg/day). He is to undergo elective surgery for calculous cholecystitis. What medication adjustment should be made on the day of the surgery to prevent the development of acute adrenal insufficiency?
Correct answer	Increase the dosage by 2-3 times
B	Add an antibiotic
C	Add a mineralocorticoid
D	Prescribe a large volume intravenous fluid infusion
E	Cancel the drug for the day of the surgery
№	krok 2019
Topic	Cardiology
Task	Having examined a 52-year-old patient, the doctor diagnosed him with obesity (body mass index - 34 kg/m ² , waist circumference - 112 cm) and arterial hypertension (170/105 mm Hg). 3-hour postprandial blood sugar is 10.8 mmol/L. What biochemical blood analysis needs to be conducted to diagnose the patient with metabolic syndrome X?
Correct answer	Lipid profile
B	Bilirubin
C	Creatinine and urea
D	Calcium and phosphorus
E	Electrolytes
№	krok 2019
Topic	Cardiology

Task	A 36-year-old man complains of marked dyspnea and cardiac pain. He ascribes his disease to the case of influenza that he had 2 weeks ago. Objectively he leans forward when sitting. The face is swollen, cyanotic, cervical veins are distended. Heart borders are extended on the both sides, heart sounds are muffled, heart rate : Ps : 118/min., BP is 90/60 mm Hg. Blood test: ESR is 46 mm/hour. ECG shows low voltage. X-ray shows trapezoidal cardiac silhouette and signs of pulmonary congestion. Choose the treatment tactics:
Correct answer	Pericardial puncture (pericardiocentesis)
B	Diuretics
C	Pericardectomy
D	Antibiotics
E	Glucocorticosteroids
№	krok 2019
Topic	Endocrinology
Task	A 73-year-old woman came to the family physician for one of her regular follow-up examinations. Three months ago she was found to have type 2 diabetes mellitus. She was keeping to her diet and exercise plan and taking phytopreparations. On examination her fasting glucose was within the range of 7.8- 8.6 mmol/L, HbA1c - 7.9%. Height ~ 164 cm, weight - 83 kg. What blood sugar-controlling medicine should she be prescribed first in the course of her pharmacological therapy?
Correct answer	Metformin
B	Insulin
C	Glimepiride
D	Glibenclamide
E	Glielazide
№	krok 2019
Topic	Gastroenterology

Task	2 hours after eating unknown mushrooms, a 28-year-old man sensed a decrease in his mobility and deterioration of his ability to focus. This condition was then followed by a state of agitation and aggression. On examination he is disoriented and his speech is illegible. 4 hours later he developed fetor hepaticus and lost his consciousness. What syndrome can be observed in this patient?
Correct answer	Acute hepatic failure
B	Cholestatic syndrome
C	Hepatolienal syndrome
D	Cytolytic syndrome
E	Portal hypertension
№	krok 2019
Topic	Hematology
Task	A 57-year-old woman complains of weakness, dyspnea, loss of appetite, and liquid feces. She has been suffering from this condition for 2 years. Objectively she presents with pale skin, subicteric sclerae, and bright-red fissured tongue. Lymph nodes are not enlarged. Pulse - 100/min. BP- 105/70 mm Hg. Liver +3 cm, the spleen cannot be palpated. Blood test: erythrocytes - $1.2 \times 10^{12}/L$, Hb- 56 g/L, color index - 1.4, macrocytes, leukocytes - $2.5 \times 10^9/L$, eosinophils - 1%, juvenile - 1%, metamyelocytes - 1%, band neutrophils - 8%, segmented neutrophils - 47%, lymphocytes - 38%, monocytes - 4%, reticulocytes - 0.1%. platelets - $100 \times 10^9/L$, ESR- 30 mm/hour, indirect bilirubin - 26 mmol/L. What changes can be expected in the bone marrow puncture material?
Correct answer	Prevalence of megaloblasts
B	Presence of blast cells
C	Increased number of sideroblasts
D	Prevalence of lymphoid tissue
E	Erythroid hyperplasia
№	krok 2019
Topic	Hematology

Task	A 45-year-old woman is registered for regular check-ups due to Werlhof disease (immune thrombocytopenia). Complete blood count: Hb- 100 g/L, erythrocytes - $2.8 \times 10^{12}/L$, platelets - $90.0 \times 10^9/L$, leukocytes - $8.4 \times 10^9/L$, erythrocyte sedimentation rate - 13 mm/hour. Examination detects a single small hematoma on the anterior surface of the thigh, developed after the patient accidentally stumbled on a table. What treatment tactics should be chosen in this case?
Correct answer	Continue the supervision by the hospital hematologist
B	Administer thrombocytic mass, continue the treatment in the hematology unit
C	Urgent hospitalization into the general care unit
D	Urgently start a hemostatic therapy, followed by a planned hospitalization into the hematology unit
E	Urgent hospitalization into the hematology unit
№	krok 2019
Topic	Pulmonology
Task	A 72-year-old man With pneumonia complains of marked dyspnea, chest pain, severe cough with expectoration. Temperature is 39.5-40°C. no urination for a whole day. Objectively the patient is conscious. Respiratory rate is 36/min. Over the right lower pulmonary lobe percussion sound is dull: on auscultation there is bronchial respiration and numerous moist crackles. Blood pressure is 80/60 mm Hg. Heart rate is 120/min. Heart sounds are muffled, there is tachycardia. What tactics should the family doctor choose in the management of this patient?
Correct answer	Hospitalization into the intensive care unit
B	Treatment in the day patient facility
C	Hospitalization into the pulmonology unit
D	Outpatient treatment
E	Hospitalization into the neurology unit
№	krok 2019
Topic	Cardiology

Task	A 39-year-old man suffers from chronic rheumatic heart disease. He complains of dyspnea during physical exertion, cough with expectoration, and palpitations. Auscultation detects intensified I heart sound and diastolic murmur; the sound of opening mitral valve can be auscultated at the cardiac apex. The II heart sound is accentuated over the pulmonary artery. The patient is cyanotic. X-ray shows dilated pulmonary root and enlargement of the right ventricle and left atrium. What is the most likely diagnosis?
Correct answer	Mitral stenosis
B	Patent ductus arteriosus
C	Pulmonary artery stenosis
D	Aortic stenosis
E	Coarctation of the aorta
№	krok 2019
Topic	Hematology
Task	A 25-year-old woman complains on fatigue, dizziness, hemorrhagic rashes on the skin. She has been presenting with these signs for a month. Blood test: erythrocytes - $1.0 \times 10^{12}/L$. Hb- 37 g/L. color index - 1.1, leukocytes - $1.2 \times 10^9/L$, platelets - $42 \times 10^9/L$. What analysis would be the most advisable for diagnosis-making in this case?
Correct answer	Sternal puncture (bone marrow biopsy)
B	Splenic biopsy
C	Coagulation studies
D	US of the gastrointestinal tract
E	Liver biopsy
№	krok 2019
Topic	Emergency conditions

Task	A patient has gradually lost consciousness. The skin is pale and dry. There is a smell of ammonia from the mouth. Respirations are deep and noisy. Heart sounds are muffled. pericardial friction rub is present. Blood pressure is 180/130 mm Hg. Blood test: Hb- 80 g/L. leukocytes - $12 \times 10^9/L$. blood glucose - 6.4 mmol/L. urea - 50 mmol/L, creatinine - 1200 $\mu\text{mol/L}$ blood osmolarity - 350 mOsmol/L. No urinary excretion. Make the diagnosis:
Correct answer	Uremic coma
B	Acute renal failure
C	Acute disturbance of cerebral circulation
D	Hyperglycemic coma
E	Hyperosmolar coma
№	krok 2019
Topic	Endocrinology
Task	A 38-year-old woman complains of weakness, sleepiness, pain in the joints, weight gain despite low appetite, and constipations. She presents with dry and thickened skin, puffy and amimic face. narrowed palpebral fissures, thick tongue, and deep hoarse voice. Her heart sounds are weak, pulse is 56/min. Low levels of free T4 are observed. This patient needs to take the following on a regular basis:
Correct answer	Thyroxine
B	Mercazolil (Thiamazole)
C	Lithium carbonate
D	Furosemide
E	Calcium gluconate
№	krok 2019
Topic	Gastroenterology

Task	A 51-year-old man complains of vomiting with blood. He has been drinking alcohol excessively. Health disorder has been observed since he was 40. when he first developed jaundice. On examination the skin and Visible mucosa are icteric. with a stellate vascular pattern. The patient is malnourished and presents with abdominal distension, umbilical hernia. and ascites. The edge of the liver is tapered and painless. +3 cm. the spleen is +2 cm. Blood test: Hb- 80 g/L, leukocytes - $3 \times 10^9/L$, platelets - $55 \times 10^9/L$. What is the cause of portal hypertension in this patient?
Correct answer	Hepatic cirrhosis
B	Budd-Chiari syndrome
C	Hemoehromatosis
D	Constrictive pericarditis
E	Thrombosis of the splenic vein
№	krok 2020
Topic	Cardiology
Task	A 45-year-old man with thrombophlebitis of the deep veins in his legs suddenly after physical exertion developed sharp pain in his thorax on the right, dyspnea, and hemoptysis. Objectively his condition is severe; he presents with acrocyanosis, shortening of pulmonary percussion sound on the right, and weakened respiration. Respiration is 30/min., blood pressure is 110/80 mm Hg. ECG shows sinus tachycardia, his heart rate is 120/min., the electrical axis of the heart deviates to the right, Sr-QIII. What is the most likely diagnosis?
Correct answer	Pulmonary embolism
B	Cancer of the right lung
C	Spontaneous pneumothorax
D	Right-sided exudative pleurisy
E	Community-acquired right-sided pneumonia
№	krok 2020
Topic	Nephrology

Task	A 38-year-old woman has been suffering from glomerulonephritis for 20 years. For approximately 16 years she has been presenting with progressing renal parenchymal arterial hypertension that became refractory and accompanied by leg edemas. She receives a combination of 100 mg losartan and 20 mg lercanidipine with insufficient antihypertensive effect. What medicine can she be recommended for intensification of the antihypertensive effect of her therapy?
Correct answer	Torasemide
B	Doxazosin
C	Lisinopril
D	Urapidil
E	Bisoprolol
№	krok 2020
Topic	Rheumatology
Task	A 45-year-old man has been suffering from ankylosing spondylitis for 15 years. For the last 3 years he has been noticing facial swelling and edemas of the limbs. Objectively, he assumes a "beggar's" position. X-ray shows "bamboo spine" changes in the thoracic and lumbar segments. Heart ultrasound shows aortic regurgitation. Complete blood count: Hb106 g/L, leukocytes - $8.9 \cdot 10^9/L$; ESR- 40 mm/hour. Daily proteinuria - 9.6 grams per 24 hours. Blood creatinine - 230 $\mu\text{mol/L}$. What is the cause of kidney failure in this case?
Correct answer	Renal amyloidosis
B	Medicine side effects
C	Urolithiasis
D	Concomitant heart disease
E	Pyelonephritis
№	krok 2020
Topic	Pulmonology

Task	A patient was brought into the pulmonology department with complaints of inspiratory dyspnea and dry cough at the highest point of inhalation. On examination the following is observed: pale skin, cyanotic lips, "Hippocratic fingers'.' Auscultation detects Velcro-type crackles (like opening a Velcro fastener). X-ray shows a "ground glass opacity" pattern. What is the most likely diagnosis?
Correct answer	Idiopathic pulmonary fibrosis
B	Pulmonary histiocytosis X
C	Idiopathic pulmonary hemosiderosis
D	Exogenous allergic alveolitis
E	Hand-Schuller-Christian disease
№	krok 2020
Topic	Hematology
Task	A 45-year-old man came to the hematologist with complaints of general weakness, elevated body temperature, excessive sweating, enlarged cervical lymph nodes. Objectively, his body temperature is 37.50C, the skin is pale and dry, the posterior cervical lymph nodes are dense and elastic, up to 2 cm in diameter, mobile. There are no peculiarities in the patient's heart and lungs. Hepatosplenomegaly was detected. What examination is necessary to determine the scope of the pathologic process?
Correct answer	Complete blood count
B	Computed tomography
C	Bone scintigraphy
D	Abdominal X-ray
E	Ultrasound of the cervical lymph nodes
№	krok 2020
Topic	Cardiology
Task	A 65-year-old man with acute anterior myocardial infarction developed an asphyxia attack. Examination detected diffuse cyanosis. In the lungs there are numerous heterogeneous wet crackles. Heart rate is 100/min. Blood pressure is 120/100 mm Hg. What complication occurred in this patient?
Correct answer	Pulmonary edema

B	Pulmonary embolism
C	Cardiogenic shock
D	Ventricular septal rupture
E	Hypertensive crisis
№	krok 2020
Topic	Endocrinology
Task	A 48-year-old woman has been hospitalized due to development of tachysystolic atrial fibrillation. She has lost 5 kg of body weight within 2 months. On palpation there is a node in the left lobe of the thyroid gland. What pathology resulted in the development of this condition?
Correct answer	Toxic nodular goiter
B	Atherosclerotic cardiosclerosis
C	Autoimmune thyroiditis
D	Nontoxic nodular goiter
E	Chronic thyroiditis
№	krok 2020
Topic	Hematology
Task	A 58-year-old man complains of weakness and tumor-like formations that appeared on the anterior surface of his neck and in the inguinal region. Palpation detects soft painless mobile cervical and inguinal lymph nodes up to 2 cm in diameter. The liver protrudes by 2 cm from the edge of the costal margin, the lower splenic pole is at the umbilical level. In blood: erythrocytes - $3.5 \cdot 10^{12}/L$, Hb- 88 g/L, leukocytes $86 \cdot 10^9/L$, band neutrophils 1%, segmented neutrophils - 10%, lymphocytes - 85%, eosinophils - 2%, basophils - 0%, monocytes - 2%, erythrocyte sedimentation rate - 15 mm/hour, Gumprecht shadows. What is the most likely diagnosis?
Correct answer	Chronic lymphocytic leukemia
D	Lymphocytic leukemoid reaction
C	Chronic myeloid leukemia
D	Acute leukemia

E	Lymphogranulomatosis
№	krok 2020
Topic	Endocrinology
Task	A 45-year-old woman was hospitalized with complaints of periodical severe headaches against the background of elevated blood pressure up to 180/90 mm Hg, muscle weakness, and frequent urination (at night as well). Her anamnesis states that despite combining various antihypertensive drugs and adjusting their dosage her arterial hypertension cannot be corrected with drugs. The patient's blood serum potassium levels are 2.0 mmol/L, blood serum sodium levels are 160.0 mmol/L. Ultrasound imaging detects threedimensional formations approximately 1.0 cm in diameter in the both adrenal glands. Selective endovascular blood sampling from the suprarenal veins was performed, which revealed significant increase of cortisol and aldosterone levels. Make the diagnosis:
Correct answer	Aldosteroma
B	Cushing's syndrome
C	Androsteroma
D	Cushing's disease
E	Pheochromocytoma
№	krok 2020
Topic	Cardiology
Task	A 45-year-old man underwent a cardiac surgery one week ago. His general state has been deteriorating since then: dyspnea at rest, retrosternal pain that irradiates to the neck, marked weakness. Objectively his body temperature is hectic. His cardiac borders are expanded, apical beat is weakened. Auscultation detects pericardial friction rub. What is the most likely diagnosis?
Correct answer	Acute pericarditis
B	Pulmonary embolism
C	Acute myogenic dilatation of the heart
D	Myocardial infarction
E	Acute cardiac aneurysm

№	krok 2020
Topic	Cardiology
Task	A 56-year-old woman was diagnosed with stage 2 hypertension of the 2nd degree. She belongs to the group of moderate risk and has bronchial asthma. What group of drugs is CONTRAINDICATED to this patient?
Correct answer	B-blockers
B	Diuretics
C	Angiotensin-converting enzyme inhibitors
D	Calcium antagonists
E	Imidazoline receptor antagonists
№	krok 2020
Topic	Cardiology
Task	A 68-year-old woman with congestive heart failure and left ventricular ejection fraction of <40% receives the following pharmacotherapy scheme: ramipril, torasemide, bisoprolol, clopidogrel, and digoxin. During one of her regular examinations, frequent polymorphic ventricular extrasystoles were detected in the patient. What medicine should be removed from her therapy scheme?
Correct answer	Digoxin
B	Torasemide
C	Bisoprolol
D	Ramipril
E	Clopidogrel
№	krok 2020
Topic	Pulmonology
Task	A 35-year-old woman had acute onset of the disease that started with fever up to 39.00C and cough. 3 days later her dyspnea at rest increased up to 35/min. Downward from her right shoulder-blade angle, percussion detects a dull sound. No vocal fremitus, respiratory sounds cannot be auscultated. What is the treatment tactics?

Correct answer	Pleural tap
B	Oxygen therapy
C	Physiotherapy
D	Antibiotic therapy
E	Artificial lung ventilation
№	krok 2020
Topic	Endocrinology
Task	A 73-year-old woman came to the family physician for one of her regular follow-up examinations. Three months ago she was found to have type 2 diabetes mellitus. She was keeping to her diet and exercise plan and taking phytopreparations. On examination her fasting glucose was within the range of 7.8-8.6 mmol/L, HbA1c - 7.9%. Height - 164 cm, weight - 83 kg. What blood glucose-controlling medicine should she be prescribed first in the course of her pharmacological therapy?
Correct answer	Metformin
B	Glibenclamide
C	Glimepiride
D	Gliclazide
E	Insülin
№	krok 2020
Topic	Nephrology
Task	A patient has gradually lost his consciousness. The skin is pale and dry. There is smell of ammonia from the mouth. Respirations are deep and noisy. Heart sounds are muffled, pericardial friction rub is present. Blood pressure is 180/130 mm Hg. Blood test: Hb- 80 g/L, leukocytes $12 \cdot 10^9/10$, blood glucose - 6.4 mmol/L, urea - 50 mmol/L, creatinine - 1200 $\mu\text{mol/L}$, blood osmolarity - 350 mOsmol/kg 1--120. No urinary excretion. Make the diagnosis:
Correct answer	Uremic coma
B	Acute renal failure
C	Hyperosmolar coma

D	Hyperglycemic coma
E	Acute disturbance of cerebral circulation
№	krok 2020
Topic	Emergency conditions
Task	After eating shrimps, a 25-year-old man suddenly developed skin itching, some areas of his skin became hyperemic or erupted into vesicles. Make the diagnosis:
Correct answer	Acute urticaria
B	Urticaria pigmentosa
C	Psoriasis
D	Scabies
E	Hemorrhagic vasculitis (Henoch-Schonlein purpura)
№	krok 2020
Topic	Endocrinology
Task	A 21-year-old man was hospitalized on the 2nd day of the disease. His general condition is severe, body temperature is 39°C. On his skin there are numerous irregular-shaped hemorrhagic elements. The diagnosis of meningococemia was made. The next day his body temperature suddenly decreased, blood pressure was 80/40 mm Hg, pulse was 120/min. Acrocyanosis was detected. What complication did the patient develop?
Correct answer	Acute adrenal insufficiency
B	Acute heart failure
C	Acute liver failure
D	Cerebral coma
E	Acute hemorrhage
№	krok 2020
Topic	Cardiology

Task	A 45-year-old man with a history of myocardial infarction developed a brief attack of palpitations, accompanied by the sensations of lack of air, fear, and vertigo. His blood pressure is 90/60 mm Hg. ECG during the attack shows extended QRS complex (0.13 seconds) with heart rate of 160/min., discordant shift of ST segment and T wave, dissociation of atrial and ventricular rhythm. What disturbance of cardiac rhythm is it?
Correct answer	Paroxysmal ventricular tachycardia
B	Atrial fibrillation
C	Frequent ventricular extrasystoles
D	Ventricular fibrillation
E	Paroxysmal supraventricular tachycardia
№	krok 2020
Topic	Endocrinology
Task	A 23-year-old woman with type 1 diabetes mellitus during the 2nd week of community-acquired pneumonia developed nausea and vomiting. In the evening she has lost her consciousness and was hospitalized. Objectively, the patient's skin is pale and dry. Her respiration is loud, the tongue is dry, with brown deposit. Her heart rate is 129/min., blood pressure is 85/50 mm Hg. Palpation of the patient's abdomen provokes no response. The liver is +3 cm. Acetone test is markedly positive, blood glucose is 26 mmol/L. Make the provisional diagnosis:
Correct answer	Ketoacidotic coma
B	Lactacidemic coma
C	Hepatic coma
D	Infectious toxic shock
E	Hyperosmolar coma
№	krok 2020
Topic	Endocrinology

Task	On ultrasound of the thyroid gland, a 47-year-old woman presents with a hypoechoic node 1.6 cm in diameter with blurred margins and intranodular hypervascularization. The doctor suspects thyroid carcinoma. What method should be used to verify the diagnosis?
Correct answer	Fine-needle aspiration biopsy
B	Case monitoring
C	Positron emission tomography (PET)
D	Determine TSII level in the blood
E	Thyroid scintigraphy
№	krok 2020
Topic	Nephrology
Task	A 20-year-old man suffers from headache, general weakness, and face edema that appears in the morning. 18 days earlier he had a case of tonsillitis. Objectively, his skin is pale, there are edema under his eyes. Heart rate is 60/min., blood pressure is 185/100 mm Hg. The sign of costovertebral angle tenderness (punch sign in the lumbar region) is negative. Urinalysis: color of "meat slops", protein - 4.5 g/L, altered erythrocytes - 40-45 in the vision field, leukocytes - 5-6 in the vision field. 24hour diuresis is 400 mL. What is the most likely diagnosis?
Correct answer	Acute glomerulonephritis
B	Renal amyloidosis
C	Acute pyelonephritis
D	Urolithiasis
E	Systemic lupus erythematosus
№	krok 2020
Topic	Gastroenterology

Task	A 52-year-old woman has been suffering for 2 years from dull, occasionally exacerbating pain in her right subcostal area, occurring after eating high-fat foods, bitter taste in her mouth in the morning, constipations, and flatulence. Objectively she is obese, her body temperature is 36.90C; there is a coating on the root of her tongue; the abdomen is moderately distended and painful in the area of gallbladder projection. What examination would be the most helpful for diagnosis making?
Correct answer	Ultrasound
B	Liver scanning
C	Duodenoscopy
D	Cholecystography
E	Duodenal probe
№	krok 2020
Topic	Cardiology
Task	What should be prescribed as secondary prevention drugs for a patient with atrial fibrillation after an ischemic stroke caused by cardiac embolism?
Correct answer	Oral anticoagulants
B	Calcium antagonists
C	Nootropics
D	B-blockers
E	Aspirin or clopidogrel
№	krok 2020
Topic	Endocrinology
Task	A 55-year-old woman complains of thyroid gland enlargement that can be observed throughout the last 2 years and a discomfort during swallowing. Objectively, she has signs of hypothyroidism. The thyroid gland on palpation is dense, nonfused with the surrounding tissues and mobile on swallowing. The regional lymph nodes are not enlarged. In the serum there are antithyroid antibodies detected. What is the most likely diagnosis?
Correct answer	Hashimoto's thyroiditis

B	Acute thyroiditis
C	Thyroid cancer
D	Endemic goiter
E	Midline cervical cyst
№	krok 2020
Topic	Pulmonology
Task	A 19-year-old young man complains of cough with expectoration of purulent sputum in amount of 100 mL per day, hemoptysis, dyspnea, increased body temperature up to 37.80C, general weakness, weight loss. The patient's condition lasts for 4 years. Exacerbations occur 2-3 times a year. The patient presents with malnutrition, pale skin, cyanosis of the lips, drumstick (clubbed) fingers. Tympanic percussion sound in the lungs, weakened respiration, and various numerous moist crackles in the lower pulmonary segments on the left can be observed in this patient. In blood: erythrocytes - $3.2 \cdot 10^{12}/L$, leukocytes - $8.4 \cdot 10^9/L$, ESR- 56 mm/hour. On Xray: lung fields are emphysematous, the left pulmonary root is deformed and dilated. What is the most likely diagnosis?
Correct answer	Multiple bronchiectasis of the left lung
B	Chronic abscess of the left lung
C	Chronic left-sided pneumonia
D	Suppuration of the cyst in the left lung
E	Left-sided pulmonary cystic dysplasia
№	krok 2020
Topic	Cardiology
Task	A patient 1 year ago had a Q wave myocardial infarction of the posterior wall of the left ventricle. For the last 2 weeks he has been suffering from daily attacks of atrial fibrillation and bradycardia episodes, accompanied by bouts of vertigo. What tactics is the most advisable in this case?
Correct answer	Pacemaker implantation
B	Prescription of amiodarone
C	Prescription of procainamide

D	Prescription of digoxin
E	Prescription of bisoprolol
№	krok 2020
Topic	Endocrinology
Task	A 58-year-old woman has type 2 diabetes mellitus that is compensated with diet and metformin. She prepares for cholecystectomy. Objectively, her height is 164 cm, weight is 90 kg, heart rate is 72/min., blood pressure is 130/80 mm Hg. Her abdomen is soft, painful in the right subcostal region. The liver is not enlarged. Fasting glucose - 6.2 mmol/L. Glycated hemoglobin - 6.5%. What further tactics of sugar-lowering therapy should be chosen in this case?
Correct answer	Prescription of a short-acting insulin
B	Prescription of glurenorm (gliquidone)
C	Prescription of a long-acting insulin
D	Prescription of an insulin mixture
E	Continue the present scheme of therapy
№	krok 2020
Topic	Endocrinology
Task	A 43-year-old man complains of facial edema, dyspnea, and difficult swallowing that appeared 3 hours after he was stung by an insect. Objectively, the skin of his eyelids, cheeks, and lips is acutely hyperemic and edematous. What medicines should he be prescribed for emergency aid?
Correct answer	Glucocorticosteroids
B	Diuretics
C	Muscle relaxants
D	Antihistamines
E	Nonsteroidal anti-inflammatory drugs
№	krok 2020
Topic	Hematology

Task	A 38-year-old patient has been delivered by an ambulance to a surgical department with complaints of general weakness, indisposition, black stool. On examination the patient is pale, there are dotted hemorrhages on the skin of his torso and extremities. On digital investigation there are black feces on the glove. Blood test: Hb- 108 g/L, thrombocytopenia. Anamnesis states that similar condition was observed 1 year ago. Make the diagnosis:
Correct answer	Thrombocytopenic purpura
B	Hemophilia
C	Ulcerative bleeding
D	Nonspecific ulcerative colitis
E	Rectal tumor
№	krok 2020
Topic	Endocrinology
Task	A 45-year-old woman complains of increasing body weight throughout the last year. Examination revealed moon face syndrome, brittle hair, hirsutism, stretch marks on the abdomen, and disproportionally thin limbs. The patient's height is 162 cm, her body weight is 94 kg, her body mass index is 35.8 kg/m ² . What type of obesity is it?
Correct answer	Android
B	Gynoid
C	Alimentary-constitutive
D	Dysplastic
E	Cerebral
№	krok 2020
Topic	Rheumatology
Task	A 27-year-old man complains of pain in his leg joints, purulent discharge from the eyes, and painful burning sensations during urination. The disease onset was acute. He has a history of influenza. The patient smokes and drinks alcohol in excess. In his line of work he is often away on business trips. What is the most likely etiological factor of this disease?

Correct answer	Chlamydia
B	Streptococci
C	Adenovirus
D	Staphylococci
E	Candida
№	krok 2020
Topic	Pulmonology
Task	A 57-year-old man, a miner, complains of a pain in his chest, dyspnea on physical exertion, excessive sweating, constant subfebrile temperature, and cough that produces blood-streaked sputum. He has been smoking for approximately 40 years (2 packs a day) and frequently has "pneumonias". Survey chest X-ray shows a triangular shadow in the middle lobe of the right lung. One of the apices of the shadow points to the lung root. Cardiac and mediastinal shadows are displaced toward the affected area. Make the provisional diagnosis:
Correct answer	Cancer of the right lung
B	Chronic bronchitis
C	Tuberculosis of the right lung
D	Pneumoconiosis
E	Right-sided pleuropneumonia
№	krok 2020
Topic	Cardiology
Task	A 31-year-old drug-addicted person complains of a cough with bloody expectorations, dyspnea, persistent fever, and leg edemas. The jugular veins are distended. There is a coarse pansystolic murmur detected above the base of the xiphoid process and in the second intercostal space on the left, close to the edge of the sternum. Heart sounds are clear, arrhythmia is detected, heart rate is 128/min., pulse - 82/min., blood pressure is 100/70 mm Hg. What is the most likely diagnosis?
Correct answer	Infective endocarditis
B	Community-acquired pneumonia

C	Coarctation of the aorta
D	Lutembacher syndrome
E	Pulmonary embolism
№	krok 2020
Topic	Gastroenterology
Task	A 17-year-old girl has been suffering from hepatic cirrhosis for 3 years. Lately her periods of excitement have been intermittent with depression, she does not sleep enough. Objectively, her condition is severe, the girl is sluggish, gives one-word responses, has tremor in her extremities, her skin is icteric, with single hemorrhagic rashes. Name the likely complication of her disease:
Correct answer	Hepatic encephalopathy
B	Sepsis
C	Reye syndrome
D	Kidney failure
E	Bipolar affective disorder
№	krok 2020
Topic	Emergency conditions
Task	A 34-year-old woman after rapidly changing her position from horizontal to vertical suddenly paled, fell down, her skin became moist, her limbs are cold, her pupils are dilated. The pulse is rapid and thready, blood pressure is 50/25 mm Hg. What condition has likely developed in the patient?
Correct answer	Collapse
B	Coma
C	Shock
D	Morgagni-Adams-Stokes syndrome
E	Ventricular fibrillation
№	krok 2020
Topic	Pulmonology

Task	During winter epidemics of influenza caused predominantly by virus A/California/04/2009 (H1N1), on the 2nd day after the disease onset a 30-year-old hospitalized man presented with high fever, dry cough, myalgia, headache, and general weakness. What should be prescribed as an etiologic treatment in this case?
Correct answer	Neuraminidase inhibitors (oseltamivir)
B	Antibiotics
C	Acyclovir
D	Interferon inducers
E	Immunoglobulin
№	krok 2020
Topic	Cardiology
Task	A 75-year-old man in a severe condition suffers from dyspnea at rest, marked weakness, and arrhythmia. Abdominal aortic pulsation is observed, further on there is a systolic murmur detected. Palpation reveals a volumetric formation in the mesogastrium. Blood pressure is 70/40 mm Hg. There is no pulsation over the femoral arteries. Oliguria is detected. Which diagnosis is the correct one?
Correct answer	Dissecting aortic aneurysm
B	Cardiosclerotic aneurysm
C	Acute pericarditis
D	Pancreatic cyst
E	Acute cardiac aneurysm
№	krok 2020
Topic	Rheumatology
Task	An 18-year-old patient complains of skin rash. The patient has been suffering from this condition for 5 years. The first instance of this disease occurred after a car accident. Objectively: the patient presents with a papular rash covered in silvery scales, "thimble" sign (small pits on the nails), affected joints. What is the most likely diagnosis?
Correct answer	Psoriasis

B	Panaritium
C	Onychomycosis
D	Lupus erythematosus
E	Rheumatism
№	krok 2020
Topic	Pulmonology
Task	A 72-year-old man with pneumonia complains of marked dyspnea, chest pain, severe cough with expectoration, to is 39.5-400C, no urination for the last 24 hours. Objectively the patient is conscious. Respiratory rate is 36/min. Percussion sound is dull over the right lower pulmonary lobe; on auscultation there is bronchial respiration and numerous moist crackles. Blood pressure is 80/60 mm Hg. Heart rate is 120/min. Heart sounds are muffled, there is tachycardia. What tactics should the family doctor choose for the management of this patient?
Correct answer	Hospitalization into the intensive care unit
B	Outpatient treatment
C	Hospitalization into the pulmonology unit
D	Hospitalization into the neurology unit
E	Treatment in the day patient facility
№	krok 2020
Topic	Nephrology
Task	A 32-year-old woman complains of general weakness, low-grade fever persisting for 4 months, lumbar pain, and dysuria. Anamnesis includes frequent acute respiratory diseases, overexposure to cold, low-calorie diet, a case of pulmonary tuberculosis in childhood. Clinical urine analysis: pH- 4.8, leukocyturia, hematuria. Complete blood count: leukocytosis, lymphocytosis, raised ESR. Urography concludes: dilatation of renal pelvis and calyceal system of both kidneys, foci of calcification in the projection of right kidney parenchyma. What is the most likely diagnosis?
Correct answer	Nephrotuberculosis
B	Chronic pyelonephritis

C	Acute glomerulonephritis
D	Right renal cyst
E	Right renal carcinoma
№	krok 2020
Topic	Emergency conditions
Task	An unconscious patient was delivered to a hospital by an ambulance. Objectively, his body temperature is 39.0 C, he presents with convulsions and red dry skin. It is known that the patient works as a stoker in the boiler room. What is the likely diagnosis?
Correct answer	Heat stroke
B	Hypertensive urgency
C	Acute viral respiratory infection
D	CO poisoning
E	Acute food poisoning
№	krok 2020
Topic	Rheumatology
Task	A 17-year-old girl complains of a pain in her knee and ankle joints and body temperature up to 39.0 C. 2 weeks ago she had a case of acute tonsillitis. Objectively, her joints are swollen, sharply painful, and their mobility is reduced. On the skin of her trunk and limbs there are barely visible circle-shaped pale pink spots. Heart rate is 95/min., blood pressure is 90/60 mm Hg, heart sounds are weakened, there is a soft systolic noise over the apex. Make the provisional diagnosis:
Correct answer	Acute rheumatic fever
B	Reactive arthritis
C	Systemic scleroderma
D	Rheumatoid arthritis
E	Erythema nodosum
№	krok 2020
Topic	Gastroenterology

Task	A woman complains of frequent watery stool (up to 9-10 times per day) with mucus and blood admixtures, dull pain in the hypogastrium, weight loss of 4 kg within the last year. Objectively: malnutrition, dry skin, low turgor, aphthous stomatitis. The abdomen is soft, the sigmoid colon is spastig and painful on palpation. Occult blood test is positive. Fibrocolonoscopy: edema, hyperemia, mucosal granulation, pseudopolyps, small ulcers with irregular edges. Make the diagnosis:
Correct answer	Nonspecific ulcerative colitis
B	Colon cancer
C	Chronic enterocolitis
D	Irritable bowel syndrome
E	Crohn's disease (regional enteritis)
№	krok 2020
Topic	Cardiology
Task	A 16-year-old boy developed dizziness. His heart rate is 35/min., blood pressure is 85/45 mm Hg. Heart borders are not enlarged. Heart sounds are loud and clear. ECG shows P waves disconnected from QRS complexes, dissociation and different rhythm of atria and ventricles is accompanied by varying location of P wave in relation to QRST complex. This presentation is the most characteristic of the following disease:
Correct answer	Complete atrioventricular block (III degree)
B	Atrioventricular block (II degree)
C	Extrasystole
D	Atrioventricular dissociation
E	Sinus bradycardia
№	krok 2020
Topic	Gastroenterology
Task	A 56-year-old woman has been working as a disinfectant for 19 years. She complains of general weakness, nausea, bitter taste in her mouth, heavy sensation in her right subcostal area, and rapid fatigability. Objectively, her body temperature is 37.1 0C, the sclerae are icteric, and the liver is enlarged. Total bilirubin is 40 mcmol/L. What is the likely diagnosis?

Correct answer	Occupational toxic hepatitis
B	Biliary dyskinesia
C	Chronic cholecystitis
D	Chronic pancreatitis
E	Acute cholecystitis
№ 1	krok 2021
Topic	Cardiology
Task	A 65-year-old man has an over 17- year-long history of chronic obstructive bronchitis. He complains of dyspnea with difficult inspiration, heaviness in his right subcostal region, and edema of feet and shins. Auscultation detects rough respiration and dry crackles over the lungs and an accentuated split second heart sound in the second intercostal region. What changes can be expected on the ECG?
Correct answer	Right ventricular myocardial hypertrophy
B	Left atrial hypertrophy
C	Ciliary arrhythmia
D	Deviation of the electrical axis of the heart to the left
E	Extrasystole
№ 2	krok 2021
Topic	Endocrinology
Task	A 19-year-old young man after a treatment for bilateral pneumonia developed thirst, high appetite, weight loss, and dry mouth. The signs continue to intensify. Examination shows fasting glycemia of 19.7 mmol/L, glucosuria of 2.8 g/L, and signs of acetonuria. What treatment should he be prescribed?
Correct answer	Insulin
B	Physiological saline
C	Biguanides
D	Glucose solution
E	Metformin
№ 3	krok 2021

Topic	Cardiology
Task	A 56-year-old woman was diagnosed with stage 2 hypertension of the 2nd degree. She belongs to the group of moderate risk and has bronchial asthma. What group of drugs is contraindicated to this patient?
Correct answer	B-blockers
B	Imidazoline receptor antagonists
C	Calcium antagonists
D	Angiotensin-converting enzyme inhibitors
E	Diuretics
№ 4	krok 2021
Topic	Pulmonology
Task	A 52-year-old man had an acute onset of the disease after an overexposure to cold that occurred 3 weeks ago. He complains of cough, high body temperature of 39.5°C, chest pain on tire right, and marked dyspnea. His pulse is 120/min., blood pressure - 90/60 mm Hg, respiration rate - 48/min. Acrocyanosis is observed. Objectively, the right side of his chest lags behind during breathing. Percussion detects a pulmonary dullness on the right. Auscultation detects no breathing over the right lung. X-ray shows on the right a shadow with fuzzy upper margin to the level of rib II. Exudate contains 90% of neutrophils. What is the most likely diagnosis in this case?
Correct answer	Pleural empyema
B	Exudative tuberculous pleurisy
C	Infiltrative tuberculosis of the right lung
D	Lung cancer
E	Croupous pneumonia
№ 5	krok 2021
Topic	Endocrinology

Task	A 36-year-old woman complains of a headache, paresthesia, muscle weakness, spasms, thirst, and polyuria. Objectively, her temperature is 36.6°C, respiration rate - 18/min., pulse - 92/min., blood pressure - 180/110 mm Hg. Her ECG shows ST depression. Her potassium levels in blood plasma are low, sodium levels are high, plasma renin activity is significantly decreased, aldosterone concentration is high. 24-hour urine specific gravity does not exceed 1.008-1.011, alkaline reaction is observed. Spironolactone test is positive. CT scan shows enlarged right adrenal gland. What is the most likely diagnosis in this case?
Correct answer	Conn's syndrome
B	Diabetes insipidus
C	Cushing's syndrome
D	Pheochromocytoma
E	Androsteroma
№ 6	krok 2021
Topic	Nephrology
Task	A 51-year-old man after an overexposure to cold has developed an acute pain in his lower abdomen and a burning pain that occurs at the end of urination. Urination occurs up to 15 times per 24 hours. The urine is turbid and contains blood. Clinical urinalysis shows leukocytes in the whole vision field and isolated erythrocytes. What provisional diagnosis can be made?
Correct answer	Acute cystitis
B	Acute pyelonephritis
C	Urolithiasis
D	Acute glomerulonephritis
E	Acute urethritis
№ 7	krok 2021
Topic	Pulmonology
Task	A 65-year-old man complains of cough attacks that occur when he eats liquid foods. Three months ago he was diagnosed with a carcinoma in the upper third of the esophagus. He underwent radiation therapy. What complication developed in this man?

Correct answer	Tracheoesophageal fistula
B	Tracheal stenosis
C	Lung abscess rupture into the pleural cavity
D	Spontaneous pneumothorax
E	Perforation of a gastric cardia ulcer
№ 8	krok 2021
Topic	Haematology
Task	When examining blood coagulation system of a man before a surgery, he was found to have a deficiency of factor VIII - antihemophilic globulin A. What disease is it?
Correct answer	Hemophilia A
D	Hemorrhagic vasculitis
C	Hemorrhagic angiomatosis
D	Hemophilia B
E	Hemophilia C
№ 9	krok 2021
Topic	Gastroenterology
Task	For the last 2 years, a 32-year-old woman has been observing periodical pain attacks in her right subcostal area that could be removed with no-spa (drotaverine). The pain is not always associated with meals, sometimes it is caused by anxiety and accompanied by cardiac pain and palpitations. Objectively, the woman is emotionally labile. Abdominal palpation detects a slight pain in the area of the gallbladder. What pathology is the most likely to cause such clinical presentation?
Correct answer	Chronic cholecystitis
B	Biliary dyskinesia
C	Chronic cholangitis
D	Duodenitis
E	Chronic pancreatitis
№ 10	krok 2021

Topic	Pulmonology
Task	A patient was brought into the pulmonology department with complaints of inspiratory dyspnea and dry cough at the highest point of inhalation. On examination the following is observed: pale skin, cyanotic lips, «Hippocratic fingers». Auscultation detects Velcro-type crackles (like opening a Velcro fastener). X-ray shows a «ground glass opacity» pattern. What is the most likely diagnosis?
Correct answer	Idiopathic pulmonary fibrosis
B	Hand-Schuller-Christian disease
C	Exogenous allergic alveolitis
D	Idiopathic pulmonary hemosiderosis
E	Pulmonary histiocytosis X
№ 11	krok 2021
Topic	Haematology
Task	A 45-year-old woman complains of general weakness, dyspnea, and dizziness. Within one year her hair became gray, her nails started peeling, and she developed gustatory disorders. For the last 5 years she has been registered for regular check-ups with a gynecologist for uterine fibromyoma. Her blood test shows the following: erythrocytes - $3.0 \cdot 10^{12}/L$, Hb - 76 g/L, color index - 0.7, reticulocytes - 0.7%, platelets - $160 \cdot 10^9/L$, leukocytes - $5.0 \cdot 10^9/L$, eosinophils - 2%, band neutrophils - 3%, segmented neutrophils
	- 63%, lymphocytes - 28%, monocytes - 4%, aniso- and microcytosis, ESR - 30 mm/hour. What type of anemia can be suspected in this case?
Correct answer	Iron-deficiency anemia
B	Hypoplastic anemia
C	B12-deficiency anemia
D	Autoimmune hemolytic anemia
E	Minkowski-Chauffard syndrome
№ 12	krok 2021
Topic	Pulmonology

Task	A 57-year-old man complains of cough with profuse mucopurulent sputum (up to 150 mL per 24 hours). Objectively, he has drumstick fingers with watch-glass nails. Percussion produces a shortened sound over the lungs. Auscultation detects moderate and large bubbling crackles. Complete blood count shows leukocytosis and a left shift in the leukogram. Chest X- ray shows intensified pulmonary pattern and ring-like shadows. Bronchography detects multiple cylindrical thickenings of the bronchi with clear margins. Make the provisional diagnosis:
Correct answer	Bronchiectasis
B	Chronic pleural empyema
C	Pulmonary echinococcosis
D	Pulmonary cyst
E	Pulmonary gangrene
№ 13	krok 2021
Topic	Gastroenterology
Task	A man complains of a heaviness behind his sternum, periodical sensation of food retention, and dysphagia. During X-ray the barium contrast reveals a single pouch-like protrusion in the right anterior wall of the esophagus. The protrusion has clear margins and a clearly defined neck. What is the most likely diagnosis in this case?
Correct answer	Esophageal diverticulum
B	Varicose veins of the esophagus
C	Hiatal hernia
D	Esophageal carcinoma
E	Esophageal polyp
№ 14	krok 2021
Topic	Endocrinology

Task	A 38-year-old woman complains of weakness, sleepiness, pain in the joints, weight gain despite low appetite, and constipations. She presents with dry and thickened skin, puffy and amimic face, narrowed palpebral fissures, thick tongue, and deep hoarse voice. Her heart sounds are weak, pulse is 56/min. Low levels of free T4 are observed. This patient needs to take the following on a regular basis:
Correct answer	Thyroxine
B	Furosemide
C	Lithium carbonate
D	Calcium gluconate
E	Mercazolil (Thiamazole)
№ 15	krok 2021
Topic	Pulmonology
Task	A man suddenly developed a sharp pain in the right side of his chest. Dyspnea has rapidly progressed. Objectively, the patient has marked acrocyanosis and is in a severe condition. Subcutaneous emphysema is observed in the area of the patient's neck and upper chest. Over the right lung a bandbox resonance can be heard, respiration is absent there. The heart borders are displaced to the left. The patient's heart rate is 110/min., blood pressure -100/60 mm Hg. What is the most likely disease in this case?
Correct answer	Spontaneous pneumothorax
B	Community-acquired pneumonia
C	Exudative pleurisy
D	Myocardial infarction
E	Lung infarction
№ 16	krok 2021
Topic	Endocrinology
Task	A 32-year-old woman presents with obesity (mostly her shoulders and torso are affected), hirsutism, and menstrual irregularities. She has purple-cyanotic striae and stretch marks on her shoulders, chest, abdomen, and thighs. What is the cause of striae development in this case?
Correct answer	Catabolic effect of corticosteroid excess

B	Hypergonadotropinemia
C	Overproduction of androgens
D	Hypoestrogenemia
E	Insulin resistance
№ 17	krok 2021
Topic	Nephrology
Task	A 73-year-old man against the background of acute transmural anterior myocardial infarction has developed a decrease in systolic pressure (70 mm Hg) and diuresis (100 mL per 24 hours) and an increase in blood creatinine (480 mcmmol/L). Proteinuria is observed in the urine (0.066 g per 24 hours). What is the cause of decreased diuresis?
Correct answer	Acute renal failure
B	Rapidly progressive glomerulonephritis
C	Congested kidney
D	Prerenal acute kidney injury
E	Acute tubulointerstitial nephritis
№ 18	krok 2021
Topic	Endocrinology
Task	One year ago a 46-year-old woman underwent a partial thyroidectomy due to multinodular goiter. Now she complains of general weakness, drowsiness, constant fatigue, low working ability, constipations, edema of her face and limbs. Objectively, her body temperature is 36°C. Her skin is dry and wrinkled. She started losing her hair and developed amenorrhea. What condition is it?
Correct answer	Primary hypothyroidism
B	Thyrotoxicosis
C	Chronic thyroiditis
D	Hypoparathyroidism
E	Subclinical hypothyroidism
№ 19	krok 2021

Topic	Rheumatology
Task	A 37-year-old man complains of a pain in his lumbar and thoracic spine and limited spinal mobility for the last 5 years. After examination he was diagnosed with central ankylosing spondylitis. This man is likely to be a carrier of the following HLA antigen:
Correct answer	HLA-B27
B	HLA-DR4
C	HLA-B5
D	HLA-DR8
E	HLA-DR20
№ 20	krok 2021
Topic	Allergology
Task	An 18-year-old girl complains of sneezing attacks that occur mostly in the morning 15-20 times in a row, an itch in her nose and throat, profuse watery discharge from her nose, rhinitis, and pain in her eyes. What test will be the most informative for diagnosis-making in this case?
Correct answer	Skin prick test
B	Droplet test
C	Total IgE levels
D	Provocation test
E	Intradermal test
№ 21	krok 2021
Topic	Pulmonology
Task	A 27-year-old man complains of dry cough, dyspnea during the slightest exertion, chest pain, and high temperature of 37.3°C that persists for the last 3 weeks. He has a past history of drug abuse. His respiration is rough, without crackles. He has tachycardia of 120/min. X-ray shows interstitial changes on the both sides of his lungs. Bronchoscopy detects <i>Pneumocista carinii</i> in the lavage fluid. What medicine will be the most effective for the treatment of this patient?
Correct answer	Biseptol (co-trimoxazole), clindamycin

B	Cefamezin (cefazolin), nitroxoline
C	Ampicillin, nizoral (ketoconazole)
D	Erythromycin, rifampicin
E	Interferon, rimantadine
№ 22	krok 2021
Topic	Rheumatology
Task	A 62-year-old man complains of a moderate pain in his left foot in the area of his metatarsophalangeal joint. The pain intensifies on movement. The disease onset was 12 years ago, when he first had «an acute pain attack». Two years ago, a yellow- white nodule appeared under the skin that covers the joint. Examination shows that the joint is deformed and cyanotic. X- ray of the affected joint shows narrowing of the joint space and well-defined bone tissue defects in the epiphysis («punched- out erosions»). What is the most likely diagnosis in this case?
Correct answer	Gouty arthritis
B	Reiter's syndrome
C	Rheumatoid arthritis
D	Osteoarthritis
E	Reactive arthritis
№ 23	krok 2021
Topic	Cardiology
Task	A 62-year-old woman was brought into the admission room with complaints of severe burning retrosternal pain and asphyxia. She has a 10-year-long history of essential hypertension. Objectively her condition is moderately severe. She presents with skin pallor, cyanotic lips, and vesicular respiration over her lungs. The II heart sound is accentuated over the aorta. Blood pressure - 210/120 mm Hg, heart rate (pulse) -76/min. ECG shows elevation of ST segment in the leads I, AVL, and V5- V6. What is the most likely diagnosis?
Correct answer	Hypertensive crisis complicated with acute myocardial infarction
B	Uncomplicated hypertensive crisis

C	Hypertensive crisis complicated with acute left ventricular failure
D	Hypertensive crisis complicated with instable angina pectoris
E	Pulmonary embolism
№ 24	krok 2021
Topic	Endocrinology
Task	A woman has undergone a surgery for diffuse toxic goiter, degree II. Twelve hours after the surgery, she developed complaints of hoarseness and voice loss, problems with breathing, dyspnea, and anxiety. Her post-surgery wound is normal. What complication developed in this woman?
Correct answer	Thyrotoxic crisis
B	Postoperative bleeding
C	Hypoparathyroidism
D	Tracheal injury
E	Recurrent laryngeal nerve paresis
№ 25	krok 2021
Topic	Nephrology
Task	A 25-year-old woman has been suffering from diabetes mellitus since she was 9. She was admitted into the nephrology unit with significant edemas of the face, arms, and legs. Blood pressure - 200/110 mm Hg, Hb - 90 g/L, blood creatinine - 850 mcmmol/L, the daily amount of urine is decreased - 200 ml, urine proteins - 1.0 g/L, leukocytes - 10-15 in the vision field. Glomerular filtration rate - 10 mL/min. What tactics should the doctor choose?
Correct answer	Transfer into the hemodialysis unit
B	Transfer into the endocrinology clinic
C	Dietotherapy
D	Kidney transplantation
E	Active conservative therapy for diabetic nephropathy
№ 26	krok 2021
Topic	Gastroenterology

Task	Two weeks after an antibacterial therapy for a febrile illness, a 25-year-old woman developed severe watery diarrhea, colicky abdominal pain, and elevated body temperature. Proctosigmoidoscopy detects focal mucosal lesions with a pale yellow coating. What is the most likely diagnosis in this case?
Correct answer	Pseudomembranous colitis
B	Crohn's disease
C	Ischemic colitis
D	Gastroenteritis
E	Ulcerative colitis
№ 27	krok 2021
Topic	Haematology
Task	A 35-year-old man complains of rapidly increasing fatigue, palpitations, «visual snow», dizziness. He has a history of peptic_ ulcer of the stomach. Objectively the skin is pale. Vesicular respiration is observed in the lungs. Systolic murmur is detected over the cardiac apex, heart rate is 100/min., blood pressure is 100/70 mm Hg. The epigastrium is slightly tender on palpation. Blood test: erythrocytes - $3.2 \cdot 10^{12}/L$, Hb - 100 g/L, color index - 0.95. What type of anemia is the most likely present in this case?
Correct answer	Posthemorrhagic anemia
B	Chronic iron-deficiency anemia
C	Sideroblastic anemia
D	Hemolytic anemia
E	Hypoplastic anemia
№ 28	krok 2021
Topic	Rheumatology
Task	A man suffers from urolithiasis and periodically develops hyperoxaluria. What products should be reduced in his diet?
Correct answer	Sorrel, spinach, tomatoes
B	Canned soup
C	Dairy products

D	Meat, fish
E	Fatty foods
№ 29	krok 2021
Topic	Nephrology
Task	A 20-year-old man suffers from headache, general weakness, and face edema that appears in the morning. 18 days earlier he had a case of tonsillitis. Objectively, his skin is pale, there are edema under his eyes. Heart rate is 60/min., blood pressure is 185/100 mm Hg. The sign of costovertebral angle tenderness (punch sign in the lumbar region) is negative. Urinalysis: color of «meat slops», protein - 4.5 g/L, altered erythrocytes - 40-45 in the vision field, leukocytes - 5-6 in the vision field. 24-hour diuresis is 400 mL. What is the most likely diagnosis
Correct answer	Acute glomerulonephritis
B	Renal amyloidosis
C	Urolithiasis
D	Acute pyelonephritis
E	Systemic lupus erythematosus
№ 30	krok 2021
Topic	Cardiology
Task	A 39-year-old man suffers from chronic rheumatic heart disease. He complains of dyspnea during physical exertion, cough with expectoration, and palpitations. Auscultation detects intensified I heart sound and diastolic murmur; the sound of opening mitral valve can be auscultated at the cardiac apex. The II heart sound is accentuated over the pulmonary artery. The patient is cyanotic. X-ray shows dilated pulmonary root and enlargement of the right ventricle and left atrium. What is the most likely diagnosis?
Correct answer	Mitral stenosis
B	Pulmonary artery stenosis
C	Aortic stenosis
D	Patent ductus arteriosus
E	Coarctation of the aorta

№ 31	krok 2021
Topic	Haematology
Task	A 32-year-old man has been hospitalized with fever episodes that are accompanied by excessive sweating and occur every 48 hours, twelve years ago he was in military service in Tajikistan, where he had a case of malaria. Objectively, his sclerae are subicteric, his skin is pale, the liver is dense and enlarged by 2 cm, the spleen is enlarged by 5 cm. What test is necessary to clarify and confirm the diagnosis in this case?
Correct answer	Microscopy of the thick drop and blood smear
B	Biochemical blood test
C	Serological blood test
D	Serum bilirubin levels
E	Serum activity of ALT and AST enzymes
№ 32	krok 2021
Topic	Nephrology
Task	A 39-year-old woman complains of high body temperature of 37,8°C that persists for two days already, frequent urination, and a dull lumbar pain/ These signs appeared for the first time, after an overexposure to cold. During physical examination, palpation of the renal region is painful. Urinalysis shows the following: pH - alkaline, protein - 0.099 g/L, leukocytes_cover the whole vision field. Erythrocytes - in the vision field, cylinders - 0 in the vision field. Complete blood count shows the following: hemoglobin - 140 g/L, leukocytes - $9.2 \cdot 10^9/L$, ESR - 30 mm/hour. What medicine should be chosen for empiric antibiotic therapy in this case?
Correct answer	Ciprofloxacin
B	Amikacin
C	Amoxicillin
D	Trimethoprim/sulfamethoxazole
E	Fosfomycin
№ 33	krok 2021
Topic	Cardiology

Task	A 68-year-old man diagnosed with acute myocardial infarction is in an intensive care unit. Suddenly he fell unconscious. Objectively, his pulse and blood pressure cannot- be detected. ECG shows frequent irregular waves of varying shape and amplitude. What complication occurred in this patient?
Correct answer	Ventricular fibrillation
B	Asystole
C	Pulmonary embolism
D	Acute heart failure
E	Paroxysmal ventricular tachycardia
№ 34	krok 2021
Topic	Haematology
Task	A 28-year-old woman complains of weakness, dizziness, nosebleed, and hemorrhages on her torso. The condition onset was 4 months ago. Objectively, her condition is of 'moderate severity. There are multicolored painless hemorrhages 1-2 cm in size on her back and abdomen. The peripheral lymph nodes are not enlarged. The liver is (-), the spleen is (+). Blood test shows the following: Hb - 120 g/L, erythrocytes - $3.4 \cdot 10^{12}/L$, color index - 0.9, reticulocytes - 0.9%, serum iron - 15.01 $\mu\text{mol}/L$, leukocytes - $4.2 \cdot 10^9/L$, eosinophils - 2%, basophils - 0%, band neutrophils - 7%, segmented neutrophils - 40%, monocytes - 6%, lymphocytes - 45 %, platelets - $47.1 \cdot 10^9/L$, ESR - 27 mm/hour. What is the most likely diagnosis in this case?
Correct answer	Idiopathic thrombocytopenic purpura
B	Hemolytic anemia
C	Chronic iron-deficiency anemia
D	Hypoplastic anemia
E	Chronic lymphocytic leukemia
№ 35	krok 2021
Topic	Gastroenterology

Task	A 46-year-old woman has diarrhea with abdominal distension, loss of body mass, and large amounts of porridge-like foul-smelling stool without blood streaks or tenesmus. Objective examination detects moderate tenderness in the mesogastrium and left abdominal flank. Stool analysis detects steatorrhea with neutral fat and creatorrhea. What prescription would be the most advisable in this case?
Correct answer	Multi-enzyme preparations
B	Anticholinergic drugs and antibacterial agents
C	Metronidazole and loperamide
D	Antacids and antispasmodics
E	Anticholinergic drugs
№ 36	krok 2021
Topic	Rheumatology
Task	A 35-year-old woman, a polisher, complains of chills, cold bluish fingertips, low mobility of her hand joints and a contracted sensation in the skin of her face and hands. Examination detects amimia, pouch-like pursing of the mouth, thickened skin of cheeks and hands, pale and cold fingertips. A bandbox resonance and isolated fine inspiratory crackles can be heard over the lungs. Blood test shows the following: erythrocytes - $3.8 \cdot 10^{12}/L$, leukocytes - $4.8 \cdot 10^9/L$, ESR - 45 mm/hour. CRP ++. What is the most likely diagnosis in this case?
Correct answer	Systemic scleroderma
B	Raynaud's disease
C	Obliterating endarteritis of the extremities
D	Myxedema
E	Vibration disease
№ 37	krok 2021
Topic	Haematology

Task	A 58-year-old man complains of weakness and tumor-like formations that appeared on the anterior surface of his neck and in the inguinal region. Palpation detects soft painless mobile cervical and inguinal lymph nodes up to 2 cm in diameter. The liver protrudes by 2 cm from the edge of the costal margin, the lower splenic pole is at the umbilical level. In blood: erythrocytes - $3.5 \cdot 10^{12}/L$, Hb - 88 g/L, leukocytes - $86 \cdot 10^9/L$, band neutrophils - 1%, segmented neutrophils - 10%, lymphocytes - 85%, eosinophils - 2%, basocytes - 0%, monocytes - 2%, erythrocyte sedimentation rate - 15 mm/hour, Gumprecht shadows. What is the most likely diagnosis?
Correct answer	Chronic lymphoid leukemia
B	Chronic myeloid leukemia
C	Lymphogranulomatosis
D	Acute leukemia
E	Lymphocytic leukemoid reaction
№ 38	krok 2021
Topic	Endocrinology
Task	Having examined a 52-year-old patient, the doctor diagnosed him with obesity (body mass index - 34 kg/m ² , waist circumference - 112 cm) and arterial hypertension (170/105 mm Hg). 2-hour postprandial blood sugar is 10.8 mmol/L. What biochemical blood analysis needs to be conducted to diagnose the patient with metabolic syndrome X?
Correct answer	Lipid profile
B	Calcium and phosphorus
C	Bilirubin
D	Creatinine and urea
E	Electrolytes
№ 39	krok 2021
Topic	Endocrinology

Task	A 29-year-old woman complains of a general weakness, increased fatigability, weight loss, and infrequent scanty periods. One year ago she had a childbirth, complicated with a massive bleeding. Objectively, the woman is asthenic, her skin is pale and dry, the hair cover is thin on her scalp and absent in her armpits. Her mammary glands and genitals are hypotrophic. Make the provisional diagnosis:
Correct answer	Sheehan's syndrome
B	Pituitary tumor
C	Asthcnoneurotic syndrome
D	Hypoplastic anemia
E	Anorexia nervosa
№ 40	krok 2021
Topic	Rheumatology
Task	A 55-year-old woman complains of pain and popping sounds in her left knee joint, which occur when she climbs the stairs. Occasionally, during movements her joint becomes «stuck». 5 years ago she received a trauma of the left knee. Complete blood count and biochemical blood analysis show normal results. X- ray shows marked osteosclerosis and osteophytes. The joint space is narrowed. Make the provisional diagnosis:
Correct answer	Osteoarthritis
B	Reactive arthritis
C	Gouty arthritis
D	Psoriatic arthritis
E	Rheumatoid arthritis
№ 41	krok 2021
Topic	Cardiology

Task	A 60-year-old man came to a hospital complaining of a bursting sensation behind his sternum that develops during fast walking and physical exertion. The pain lasts for approximately 5 minutes and passes on its own in a resting state. Objectively, his pulse is 75/min., blood pressure - 140/80 mm Hg. The heart borders are normal. Heart sounds are slightly weakened, rhythmic, and clear. ECG shows no changes. Make the provisional diagnosis:
Correct answer	Exertional angina pectoris
B	Intercostal neuralgia
C	Myositis
D	Somatoform autonomic dysfunction
E	Variant angina pectoris