MINISTRY OF HEALTH OF UKRAINE ZAPOROZHYE STATE MEDICAL UNIVERSITY THE DEPARTMENT OF INTERNAL DISEASES 3

Test "KROK-2" Tasks in HEMATOLOGY

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T 40 **Test "KROK-2" tasks in hematology:** a collection of test tasks in the discipline "Internal Medicine" for students of the 6th year of medical faculty, specialty "Medical business", "Pediatrics" / Dotsenko S.YA., Rekalov D.H., Chorna I.V. [et al.]. – Zaporizhzhya, 2021. – 71 p.

Збірник тестових завдань "Тестові завдання КРОК-2 з гематології " - для підготовки до практичних занять з дисципліни "Внутрішня медицина" іноземним студентам 6-го курсу медичного факультету, які навчаються англійською мовою за спеціальністю "Лікувальна справа".

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INTRODUCTION

The collection of test tasks "Test "KROK-2" Tasks in HEMATOLOGY" is designed to improve the quality of training of future general practitioners, including general practitioners / family doctors, since in recent decades there has been a significant spread and growth of the pathology of internal organs, especially hematological diseases .

In the presented collection of test questions, questions are considered that will be useful in practical work of therapists and will provide substantial assistance to students, interns, general practitioners, family doctors in mastering the problems of diagnosis and differential diagnosis of hematological diseases.

The collection of test tasks is built on the basis of the curriculum for the discipline "Internal Medicine", contains a sufficient number of test tasks that reveal the general provisions and a special part of the pathological states in hematology. The workshop includes test tasks from recent years from the Testing Center at the Ministry of Health of Ukraine.

The presented collection of test tasks is a rather relevant form of teaching students in higher educational institutions of III-IV accreditation levels from the standpoint of the Bologna process, including preparation for the "KROK-2" licensing exam.

- 1. At the patient S., 68 years old, during examination atrophy of papillae of language, yellowness of white of the eyes, splenomegaly, and symmetrical paresthesia were found out, at FGDS atrophical gastritis, at Ph-metry achlorhydria. In blood test: anemia, makrocytosis. What researches can confirm the diagnosis:
- A. Sternal puncture
- B. US investigation of abdominal cavity
- C. Consultation of neurologist
- D. Determination of iron of blood serum
- E. Spleen puncture
- 2. At the patient K., 18 years old, abundant bleeding began after extraction of tooth. In the anamnesis: haemophilia A. What first aid the patient needs:
- A. Ascorutin
- B. Aminocapron acid
- C. Calcii chloridi
- D. Vikasol
- E. Cryoprecipitate
- 3. At the sick M., 42 years old, who was taking mercazolile for a long time, concerning thyreotoxicosis, agranulotcytosis developed. What changes are possible to expect in leukoformula:
- A. Leukocytosis with lymphotcytosis
- B. Leukocytosis with neutrophilia
- C. Leukocytosis with lymphopenia
- D. Leukopenia with neutrophilia
- E. Leukopenia with neutropenia
- 4. The patient L., 23 years old, complains on increase of temperature of body to 38C, appearance of hypodermic hemorrhages. Doctor diagnosed aplastic anemia. What symptom from the below will be observed at the sick:
- A. Splenomegaly
- B. Lymphadenia
- C. Leukopenia
- D. Hepatomegaly

E. Hyperthrombotcytosis

- 5. The sick Z., 68 years old, complains on pain in bones, subfebrile temperature of body, weight loss. At inspection moderate normochromic anemia is determined, blood sedimentation-55 mm/h, proteinuria-0,99 g/l. What of research methods is less informing for clarification of diagnosis:
- A. Definition of general protein
- B. Definition of albuminous fractions
- C. Roentgenography of bones
- D. Definition of level of iron of blood serum
- E. Sternal puncture
- 6. At the patient S., 68 years old, during examination yellowness of white of the eyes, hepatosplenomegaly, symmetrical paresthesia, at additional research atrophical gastritis with achlorhydria were discovered. What sign contradicts the clinic of the described condition:
- A. Macrocytosis
- B. Gunther's glossitis
- C. Thrombocytopenia
- D. Microcytosis
- E. Hypersegmentation of nucleus of neutrophiles
- 7. Which from diseases transferred below such hematological indexes are characteristic for: expressed anemia, leukopenia, neutropenia, presence of 15% of plasma cells in bone marrow:
- A. Acute leukemia
- B. Chronic myeloleukemia
- C. Multiple myeloma
- D. Chronic lympholeukemia
- E. Lymphogranulomatosis
- 8. At the 23 years old man, who suffers on acute myeloblastic leukemia, massive hypodermic hemorrhages, nose bleeding appeared. There are expressed anemia, thrombotcytopenia, and 30% of blasts in blood test. What first aid the patient needs:

- A. Extending of polychemotherapy
- B. Transfusion of packet red cells
- C. Transfusion of thromboconcentrate
- D. Introduction of iron preparations
- E. Introduction of vikasol
- 9. The patient S., 68 years old, immediately hospitalized concerning hard anemia (Hb- 50 g/l, macrocytosis) with complaints on dyspnea in rest, disturbance of step. At examination: yellowness of white of the eyes, tachycardia, hepatosplenomegaly. What help the patient needs:
- A. Preparations of iron intravenous
- B. Vitamin B12, packet red cells
- C. Prednizolon
- D. Anabolic steroids
- E. Packet red cells
- 10. The patient T., 60 years old, complains on dyspnea. During many years he is suffering on chronic obstructive pulmonary disease. Hepatosplenomegaly. Blood test: $E-6.8 \times 10^{12} / l$, Hb-190 g/l, L-12x10⁹/l, T-520x10⁹/l, blood sedimentation-2 mm/h. Define the reliable diagnosis:
- A. Chronic obstructive pulmonary disease. Symptomatic erythrotcytosis
- B. Pikvik's syndrome. Symptomatic erythrotcytosis
- C. Hypertonic illness. Symptomatic erythrotcytosis
- D. Erythremia. Chronic obstructive pulmonary disease
- E. Chronic myeloleukemia. Chronic obstructive pulmonary disease
- 11. At examination of the 70 years old patient with fever and dyspnea, pallor of skin, moist rales in the lower departments of lungs, tachycardia, diastolic noise in the V point, AP-140/40, increase of spleen are found out. In blood: E-2,7x10¹²/l, Hb-75 g/l, L- 4,2x10⁹/l, blood sedimentation-45 mm/h; in urine moderate proteinuria, microhematuria. Define the reliable diagnosis:
- A. Chronic myeloleukemia
- B. Infectious endocarditis
- C. Rheumatic heart disease

- D. Pneumonia
- E. Acute myocarditis
- 12. The sick K., 58 years old, marks increased lymphatic knots of neck and subarmpits. At examination: size of lymphatic knots 3x4 sm, painless, soft, mobile, skin above them is not changed. General analysis of blood: E-3,2x10¹²/l, Hb-102 g/l, CI-1,0; L-235x10⁹/l, e-2%, r/n-4%, s-12%, l-76%, m-6%, Gumprechts` bodies. Define the reliable diagnosis:
- A. Chronic lympholeukemia
- B. Reactive lymphadenitis
- C. Lymphogranulomatosis
- D. Malignant lymphoma
- E. Metastasis of cancer in lymphatic knots
- 13. The 63 years old participant of liquidation of failure on CHAES, complains on causeless weakness, feeling of holding apart in the left subcostum. The patient feels itself sick for a year. Objectively: skin is pale, liver + 3 sm, spleen +10 sm. In blood: E- 3.1×10^{12} /l, Hb-100 g/l, L-200×10⁹/l, e-6%, b-3%, blast-2%, promiel-10%, miel-18%, r/n-27%, s-10%, l-12%, m-2%, blood sedimentation-40 mm/h. What diagnosis is the most credible:
- A. Hemolytic anemia
- B. Cirrhosis of liver
- C. Acute leukemia
- D. Chronic myeloleukemia
- E. Chronic lympholeukemia
- 14. The patient L., 30 years old, complains on general weakness, fragility of nails, hair fall, considerable and prolonged menstruations. Objectively: pallor of skin, heart rate–90, AP-100/70. Blood test: E-3,5x10 12 /l, Hb-90 g/l, CI-0,7; blood sedimentation-20 mm/h. Define the previous diagnosis:
- A. Iron deficiency anemia
- B. B12 deficiency anemia
- C. Aplastic anemia
- D. Acute leukemia

E. Follic deficiency anemia

- 15. The sick F., 50 years old, complains on itch of skin after aquatic procedures. Objectively: skin of red color, liver +2 sm, spleen +4 sm. Blood test: E-6,4x10¹²/l, Hb- 185 g/l, L-10,0x10⁹/l, e-5%, r/n-8%, s/n-56%, l-26%, m-5%, T-525x10⁹/l, blood sedimentation-1mm/h, hematcrit-72%. What research must be conducted for clarification of diagnosis:
- A. Definition of B12 in blood
- B. Sternal puncture
- C. Definition of alkaline phosphatase of blood
- D. Iron of blood serum
- E. US investigation of abdominal cavity
- 16. The sick T., 36 years old, appealed to internist with complaints on pain in throat, increase of temperature of body to 39C. Objectively: skin is pale, single bruises on thighs, necrotic changes on tonsils, spleen +3 sm. Blood test: E-1,9x10 12 /l, Hb-57 g/l, L- 20,0x10 9 /l, blast -26%, s-25%, l-42%, m-7%, T-32,0x10 9 /l, blood sedimentation-60 mm/h. What research needs be conducted for clarification of diagnosis:
- A. Sternal puncture
- B. Smear from fauces
- C. US investigation of abdominal cavity
- D. Spleen puncture
- E. Computed tomography of abdominal cavity
- 17. The sick L., 68 years old, complains on increased lymphatic knots, perspiration. Objectively: skin and mucouses are pale, increased inguinal and subaxillary lymphatic knots, palpated by diameter of 2-3 sm, soft, unpainful, mobile. Sizes of liver by Curlov are 18x14x13 sm. Blood test: E-3,5x10¹²/l, Hb-100 g/l, CI-0,8, L-380x10⁹/l, e-3%, l-95%, m-2%, T-190x10⁹/l. Define the previous diagnosis:
- A. Chronic lympholeukemia
- B. Acute leukemia
- C. Chronic myeloleukemia
- D. Leukemoid reaction of lymphoid type

E. Cirrhosis of liver

- 18. The sick A., 56 years old, appealed to doctor with complaints on perspiration, weight loss, heavy feeling in the left half of stomach. Skin and mucouses are pale. Large spleen is palpated and liver is moderately increased. Blood test: E- $3x10^{12}$ /l, Hb-90 g/l, L-240x10⁹/l, eoz-9%, baz-6%, myeloblast-4%, promyel-3%, myel-23%, metamyel-16%, r/n-15%, s/n-12%, l-7%, m-5%, blood sedimentation-40 mm/h. Define the previous diagnosis:
- A. Chronic lympholeukemia
- B. Acute leukemia
- C. Chronic myeloleukemia
- D. Leukemoid reaction of myeloid type
- E. Cirrhosis of liver
- 19. The patient O., 50 years old, complains on general weakness, obdormition of lower extremities. Objectively: skin is pale, liver +2 sm. Blood test: E-2,3x10¹²/l, Hb-95 g/l, CI-1,3, L-2,4x10⁹/l, r/n-2%, s/n-53%, 1-40%, m-5%, blood sedimentation-34 mm/h, macrocytosis, hypersegmentation of neutrophils. What research needs to be conducted for definition of diagnosis:
- A.US investigation of abdominal cavity
- B. Sternal puncture
- C. Definition of B12 in blood
- D. Iron of blood serum
- E. Liver puncture
- 20. The patient G., 58 years old, complains on headache, dizziness. Objectively: skin is pletoric, heart rate-82, AP-180/90, liver and spleen are moderately increased. Blood test: E-8,0x10 12 /l, Hb-220 g/l, CI-1,0; L-11,5x10 9 /l, T-560x10 9 /l. What research must be conducted for diagnostics of the disease:
- A. Echocardioscopy
- B. Sternal puncture
- C. US investigation of abdominal cavity
- D. Iron of blood serum

E. Determination of hematocrit

- 21. The patient, 19 years old, complains on fever, pain in throat, sickly neck lymphatic knots. At examination: spleen and liver are increased. In general analysis of blood 32% of mononucleares are found out. What disease you think about:
- A. Lymphatic angina
- B. Hepatitis
- C. Angina
- D. Acute leukemia
- E. Sepsis
- 22. The patient T., 45 years old, complains on general weakness, dyspnea at insignificant physical load, pain in the right subcostum. During 10 years the patient was misusing of alcohol. Objectively: reduced feed, skin is pale with icteric tint, systolic noise above all auscultational points, liver + 6 sm, spleen +2 sm. In blood: E- 1.8×10^{12} /l, Hb-75 g/l, CI-1.3; L- 3.5×10^{9} /l, e-3%, r/n-4%, s/n-65%, l-21%, m-7%; T- 110×10^{9} /l, blood sedimentation-50 mm/h. What diagnosis is most credible:
- A. B12 deficiency anemia
- B. Follic deficiency anemia
- C. Hypopolastic anemia
- D. Cirrhosis of liver
- E. Autoimmune thrombocytopenia
- 23. The 35 years old woman, who during two years treats oneself at internist concerning NCD and at gynaecologist concerning menorrhagia, complains on muscular weakness, decline of memory, subfebrile temperature. General analysis of blood: E-3,5x10¹²/l, Hb- 100 g/l, CI-0,7, anisocytosis, L-3,8x10⁹/l, e-2%, r/n–4%, s/n-60%, l–26%, m-8%, blood sedimentation-12 mm/h, iron of blood serum-7,8 mkm/l. What treatment needs to be appointed:
- A. Preparations of iron per os
- B. Follic acid
- C. Preparations of iron intravenous
- D. Vitamins of group B
- E. Transfusion of packet red cells

- 24. The patient G., 58 years old, complains on headache, dizziness. Objectively: skin is pletoric, tones of heart are rhythmic, heart rate-82, accent of the second tone above aorta, AP-180/90, spleen is moderately increased. Blood test: E-8,2x10 12 /l, Hb-210 g/l, CI-1,2, L-10,5x10 9 /l, T-560x10 9 /l. What diagnosis is most credible:
- A. Erythremia
- B. Chronic myeloleukemia C. Cerebral insult
- D. Tumor of brain E. Cirrhosis of liver
- 25. About what pathology it is possible to think at presence at the sick of ecchymoses, prolonged menstruations, thrombocytopenia in general analysis of blood and raised percent of megakariocytes in bone marrow aspirates:
- A. Aplastic anemia
- B. Acute leukemia
- C. Systemic lupus erythematosus
- D. Idiopathic thrombocytopenic purpura
- E. Chronic hepatitis
- 26. At the formula of blood: E-1,3x10 12 /l, Hb-58 g/l, CI-1,3, megaloblast-2 on 100, reticulotcyt-0,2%, macrocytosis, L-2,8x10 9 /l, e-3%, r/n-5%, s/n-49%, 1-37%, m-6%, T-100,0x10 9 /l, blood sedimentation-30 mm/h, formulate the previous diagnosis:
- A. Iron deficiency anemia
- B. B12 deficiency anemia
- C. Aplastic anemia
- D. Acute leukemia
- E. Agranulocytosis
- 27. At the formula of blood: E-3,5x10 12 /l, Hb-110 g/l, L-330x10 9 /l, baz-5%, eozin-9%, promyel-2%, myel-22%, metamyel-21%, r/n-15%, s/n-12%, l-8%, m-6%; thromb- 200,0x10 9 /l, blood sedimentation-45 mm/h. Formulate the previous diagnosis:

A. Acute leukemia

- B. Chronic lympholeukemia C. Chronic myeloleukemia
- D. Erythremia
- E. Multiple myeloma
- 28. The 23 years old patient on the background of angina noticed increase of lymphatic nodes. At examination phenomena of acute angina, magnification of liver are marked. At research of blood: E-4,1x10 12 /l, Hb-130 g/l, thromb-230,0x10 9 /l, L-6,5x10 9 /l, in leukocyte formula there are 45% of lymphomonocytic cells, blood sedimentation-35 mm/h. What diagnosis is most credible:
- A. Lymphatic angina
- B. Chronic lympholeukemia
- C. Infectious lymphadenitis
- D. Acute hepatitis
- E. Acute monoblastic leukemia
- 29. The 23 years old patient on the background of angina noticed increase of lymphatic nodes. At examination phenomena of acute angina, magnification of liver are marked. At research of blood: E-4,1x10 12 /l, Hb-130 g/l, T-230,0x10 9 /l, L-6,5x10 9 /l, in leukocyte formula there are 45% of lymphomonocytic cells, blood sedimentation-35 mm/h. What additional research must be conducted for confirmation of diagnosis:
- A. Sternal puncture
- B. Biopsy of lymphatic knot
- C. US Investigation of liver and spleen
- D. Smear from fauces
- E. Roentgenography of lungs
- 30. At the formula of blood: E-2,5x10¹²/l, Hb-68 g/l, CI-1,5, megaloblast-5 on 100, reticulotcyt-0,2%, L-2,8x10⁹/l, e-3%, r/n-4%, s/n-45%, l-33%, m-5%, thromb-105x10⁹/l, blood sedimentation-30 mm/h. Appoint additional research, which must be conducted for confirmation of diagnosis:
- A. Sternal puncture
- B. US Investigation of liver and spleen

- C. Roentgenography of lungs
- D. Definition of maintenance of B12 in blood
- E. Definition of iron of blood serum
- 31. At the indicated formula of blood: E-2,8x10 12 /l, Hb-80 g/l, CI-0,8, reticulocyt-20%, L-7,5x10 9 /l, e-2%, r/n-4%, s/n-54%, 1-37%, m-3%, T-200x10 9 /l, blood sedimentation- 35 mm/h, microspherocytosis. Appoint additional research, which is necessary for confirmation of diagnosis:
- A. Sternal puncture
- B. Definition of maintenance of B12 in blood
- C. Definition of maintenance of iron of blood serum
- D. US investigation of liver and spleen
- E. Definition of osmotic resistance of erythrocytes
- 32. At the indicated formula of blood: E-2,8x10¹²/l, Hb-80 g/l, microspherocytosis, CI- 0,8, reticul-20%, L-7,5x10⁹/l, e-2%, r/n-4%, s/n-54%, l-37%, m-3%, T-200x10⁹/l, blood sedimentation-35 mm/h. Define the previous diagnosis:
- A. B12 deficiency anemia
- B. Follic deficiency anemia
- C. Inborn hemolytic anemia
- D. Iron deficiency anemia
- E. Acute leukemia
- 33. The sick K., 72 years old, complains on aversion to meat, weight loss on 12 kg during 6 months. At examination: skin is pale, above the left collar-bone increased, not mobile, dense lymphatic knot is palpated. Liver is +4 sm, dense, painful. General analysis of blood: E-2,5x10¹²/l, Hb-78 g/l, L-11,8x10⁹/l, T-460x10⁹/l, blood sedimentation-55 mm/h. About what disease it is possible to think:
- A. Acute leukemia.
- B. B12 deficiency anemia
- C. Follic deficiency anemia
- D. Cancer of stomach with metastasis
- E. Multiple myeloma

- 34. The sick K., 72 years old, complains on aversion to meat, weight loss on 12 kg during 6 months. At examination: skin is pale, icteric, above the left collar-bone increased, not mobile, dense lymphatic knot is palpated. Liver is + 4 sm, dense, painful.General analysis of blood: E-2,5x10¹²/l, Hb-78 g/l, L-12,8x10⁹/l, T-460x10⁹/l, blood sedimentation-55 mm/h. What research needs to be conducted for confirmation of diagnosis:
- A. Sternal puncture.
- B. US investigation of liver
- C. Biopsy of lymphatic knot
- D. FGDS
- E. Ph-metry
- 35. The patient G., 57 years old, complains on diarrhea, increase of temperature of body to 37,5C, obdormition and tingling in lower extremities. The resection of stomach concerning ulcer was done 4 years ago. At examination: skin is pale, icteric, liver +3 sm, spleen +2 sm. General analysis of blood: E-2,3x10 12 /l, Hb-80 g/l, CI-1,2, L-2,3x10 9 /l, formula is not changed, T-140x10 9 /l, blood sedimentation-45 mm/h, macrocytosis. About what disease it is possible to think:
- A. Iron deficiency anemia
- B. Cancer of stomach
- C. B12 deficiency anemia
- D. Inborn hemolytic anemia
- E. E. Follic deficiency anemia
- 36. At the young woman after viral infection acute belly ache, diarrhea with the admixtures of blood, pain in knee-joints, increase of temperature of body appeared. Objectively: skin is pale, micropoint eruption on the skin of shins, at palpation thick intestine is painful. In blood: leukocytosis, increased blood sedimentation; in urine: low proteinuria, microhematuria. What additional research must be conducted:
- A. Proteinogram
- B. C-reactive protein
- C. LE-cells, antibodies to native DNK
- D. Villebrandts' factor, circulating immune complexes

- E. US investigation of abdominal cavity
- 37. The sick F., 62 years old, appealed to doctor with complaints on general weakness, headache, itch of skin after contact with water. Objectively: skin of face of redder bluish color, AP-180/90, spleen + 4 sm. What diagnosis is most credible:
- A. Allergic dermatitis
- B. Dermatomyositis
- C. Erythremia
- D. Hypertonic illness
- E. E. Cirrhosis of liver
- 38. The patient G., 57 years old, complains on periodic diarrhea, increase of temperature of body to 37,5C, obdormition and tingling in lower extremities. The resection of stomach concerning ulcer was done 4 years ago At examination: skin is pale, icteric, liver + 3 sm, spleen + 2 sm. General analysis of blood: E-2,3x10 12 /l, Hb-80 g/l, CI-1,3, L-2,3x10 9 /l, formula is not changed, T-140x10 9 /l, blood sedimentation-40 mm/h, macrocytosis. What additional research must be conducted for clarification of diagnosis:
- A. US investigation of liver and spleen
- B. Sternal puncture
- C. FGDS
- D. Research of bilirubin of blood
- E. Roentgenoscopy of stomach
- 39. The 19 years old youth complains on acute pain and slight swelling in right knee-joint, limitation of motions in it, which arose up after insignificant trauma. In anamnesis there is hemophilia. At review hemarthrosis of knee-joint is determined. It is necessary to use in treatment:
- A. Cryoprecipitate
- B. Donor blood (at direct transfusion)
- C. Decinon
- D. Donor blood (ampuled)
- E. Thrombocytic mass
- 40. The 44 years old man is hospitalized to the infectious separation with the

diagnosis of follicular angina. At examination: temperature of body 38,6C, skin is pale, pulse -112, AP-90/60. In blood test: E-2,5x10¹²/l, HB-90 g/l, CI-0,8; L-38,0x10⁹/l, blast-68%, r/n-2%, s/n-5%, l-23%, m-2%, blood sedimentation-46 mm/h. What primary research the patient needs:

- A. US investigation of abdominal cavity
- B. Sternal puncture.
- C. Smear from fauces
- D. Seeding of blood on sterility
- E. Determination of ferritin of blood
- 41. The 28 year old woman appealed to doctor with complaints on appearance of ecchymoses after insignificant traumas or spontaneously. At examination: skin is pied (fresh and old hemorrhage) on the front surface of trunk and extremities. In blood test: $T-20x10^9/l$, in bone marrow number of megakaryocytes is increased. What is the most reliable disease:
- A. Hemorrhagic vasculitis
- B. Randyu-Oslers` disease
- C. Hemophilia
- D. Idiopathic thrombocytopenic purpura
- E. Systemic lupus erythematosus
- 42. At the 55 years old man, patient on B12 deficiency anemia, symptoms of funicular myelosis gradually appeared. In blood: anemia, leukopenia, thrombocytopenia, increase of colour index, blood sedimentation-40 mm/h; hyperbilirubinemia due to indirect. What is the most credible reason of funicular myelosis:
- A. Increased level of bilirubin
- B. Accumulating of propion and metilmalon acids
- C. Long lasting hypoxia of nervous system
- D. Activating of infection as a result of leukopenia
- E. Deficiency of feed
- 43. The 44 years old man is hospitalized to the infectious separation with the diagnosis of follicular angina. At examination: temperature of body of 38,6C, skin is pale, pulse 112, AP-100/60. In blood test: E-2,5x10¹²/l, Hb-90 g/l, CI-0,8, L-38x10⁹/l,

blast-68%, r/n-2%, s/n-14%, l-14%, m-2%, blood sedimentation-46 mm/h. What disease it follows to suspect at the patient:

- A. Chronic lympholeukemia
- B. Chronic myeloleukemia
- C. Acute leukemia
- D. Lymphatic angina
- E. Leukemoid reaction
- 44. At the young woman after viral infection acute belly ache, diarrhea with the admixtures of blood, pain in knee-joints, increase of temperature of body appeared. Objectively: skin is pale, micropoint eruption on the skin of shins, at palpation thick intestine is painful. In blood: leukocytosis, increased blood sedimetation; in urine: low proteinuria, microhematuria. What diagnosis is the most reliable:
- A. Crohn's disease
- B. Hemorrhagic vasculitis
- C. Nodular polyarteriitis
- D. Unspecific ulcerative colitis
- E. Systemic lupus erythematosus
- 45. The patient T., 45 years old, complains on general weakness, dyspnea at insignificant physical load, pain in the right subcostum. During 10 years the patient was misusing of alcohol. Objectively: reduced feed, skin is pale with icteric tint, systolic noise above all auscultational points, liver + 6 sm, spleen +2 sm. In blood: E-1,8x10¹²/l, Hb-75 g/l, CI-1,3; L-3,5x10⁹/l, e-3%, r/n-4%, s-65%, 1-21%, m-7%; T-110x10⁹/l, blood sedimentation-50 mm/h. What laboratory research must be conducted for clarification of diagnosis:
- A. Sternal puncture
- B. Definition of concentration of folates in red corpuscles of blood
- C. Definition of ferritin of blood
- D. Definition of B12 in blood
- E. Definition of iron of blood serum
- 46. At the patient, 57 years old, after viral infection subfebrile temperature is saved for a long time, heavy feeling in the left subcostum is marked. At examination: skin is

pale, spleen +6 sm, liver +3 sm. In blood test: E-2,9x10¹²/l, Hb-90 g/l, CI-1,0; L- $540,0x10^9$ /l, eozin-4%, baz-3%, blast-34%, myel-2%, metamyel-3%, r/n-5%, s/n-27%, l-18%, m- 4%, T-260x10⁹/l, blood sedimentation-37 mm/h. What disease it follows to suspect at the patient:

- A. Acute myeloblastic leukemia
- B. Chronic myeloleukemia, blastic crisis
- C. Chronic lympholeukemia.
- D. Lymphogranulomatosis
- E. Leukemoid reaction of myeloid type
- 47. The patient F., 29 years old, who during two years treated oneself at gynaecologist concerning menorrhagia, complains on increased fatigability, palpitation at physical load, unretaining of urine. Has a desire to eat chalk. In blood test: E-3,5x10 12 /l, Hb-95 g/l, L-3,8x10 9 /l, e-3%, r/n-5%, s/n-56%, l-26%, m-6%, blood sedimentation-24 mm/h, hypochromia of red corpuscles, anisocytosis, poikilocytosis, iron of blood serum-5,5 mkm/l. What treatment must be appointed:
- A. Follic acid
- B. Cyancobalamine
- C. Preparations of iron per os
- D. Ascorbic acid
- E. Transfusion of packet red cells
- 48. At the patient, who suffers on chronic lympholeukemia, general weakness increased, yellowness of white of the eyes and skin appeared. At examination: Hb-65 g/l, reticul- 5%, general bilirubin-80,3 mkmol/l, indirect-65,3 mkmol/l. Urobilin is increased in analysis of urine. The direct Coombs` test is positive. What pathogenetic mechanism is lying in the root of anemia:
- A. Myelofibrosis
- B. Oppressing of erythroid link of hemopoiesis C. Autoimmune hemolysis
- D. Deficiency of follic acid
- E. Disturbance of porfirin metabolism
- 49. The pregnant, 18 years old (20 weeks), complains on weakness, dyspnea at physical load. At women's dispensary she was not observed before. Objectively: skin

is pale with lemon tint; face is puffy, language - bright red, liver + 3 sm. In blood test: E- $3.0x10^{12}$ /l, Hb-88 g/l, CI-1,3; L-3,8x10⁹/l, T-130,0x10⁹/l; e-3%; r/n-4%; s/n-52%; l- 36%; m-5%; macrocytosis, blood sedimentation-28 mm/h. What diagnosis is the most reliable:

- A. Iron deficiency anemia
- B. B12 deficiency anemia
- C. Follic deficiency anemia
- D. Acute leukemia
- E. Hepatitis
- 50. The patient D., 50 years old, complains on dizziness, blinking of "spots" before eyes. At examination: subicteric skin and mucouses, liver +4 sm, dense, painful, spleen +8 sm, dense. In blood test: E-2,2x10¹²/l, Hb-80 g/l, reticul-30%, L-6,0x10⁹/l, e-3%, r/n-6%, s/n-62%, l-20%, m-8%; blood sedimentation-30 mm/h; osmotic resistance of red corpuscles 0,52-0,56%; bilirubin of blood is moderately increased due to indirect, reaction on urobilin is Acutely positive, the Coombs` test is positive. What diagnosis is the most credible:
- A. Minkovskiy Shoffars` disease
- B. Agranulocytosis
- C. Night hemoglobinuria
- D. Autoimmune hemolytic anemia E. Gilber's disease
- 51. The patient I., 47 years old, is hospitalized in clinic with complaints on expressed weakness, increase of temperature of body to 39,2°C, pain in throat. At examination: in blood test there are anemia, thrombocytopenia, leukocytosis with "leukemic failure", blast-34%, blood sedimentation-40 mm/h. What research must be conducted for clarification of diagnosis:
- A. Coagulogram
- B. Sciagraphy of bones of skull
- C. Unfolded blood test
- D. Seeding from tonsils
- E. Sternal puncture
- 52. The patient I., 18 years old, was hospitalized with complaints on nose-bleeding,

hemorrhagic rash as petechias on the skin of lower extremities. Vaccination against flu was done two weeks ago. In blood test: E-4,0x10 12 /l, L-6,7x10 9 /l, T-30,0x10 9 /l, e-2%, r/n-4%, s/n-54%, l-32%, m-8%, blood sedimentation-2 mm/h. Your previous diagnosis:

- A. Hemorrhagic vasculitis
- B. Acute leukemia
- C. Autoimmune thrombocytopenia
- D. Randyu-Oslers` disease
- E. Systemic lupus erythematosus
- 53. The patient, 68 years old, complains on general weakness, pain in ribs, lumbar area. At examination: moderate normochromic anemia, general albumen-107 g/l, diurnal proteinuria-5,0 g/day. On the sciagrams of bones of skull a lot of shallow rounded hearths of destruction were discovered by diameter from 0,8 to 2,0 sm. What diagnosis can be suspected at this patient:
- A. Multiple myeloma
- B. Osteolytic metastases in bones
- C. Amyloidosis of kidneys with nephrotic syndrome
- D. Hyperparathyroidic osteodystrophy
- E. Chronic glomerulonephritis with nephrotic syndrome
- 54. The patient S., 64 years old, at examination in policlinic increased lymphatic knots of neck, arm-pits, groin and liver (+3 sm) were found out. In blood test: E- 3.1×10^{12} /l, Hb-98 g/l, L-500,0x10⁹/l, e-2%, r/n-1%, s/n-13%, l-80%, m-4%, blood sedimentation- 40 mm/h. What reliable diagnosis the patient has:
- A. Chronic myeloleukemia
- B. Cancer of liver
- C. Chronic lympholeukemia
- D. Tubercular lymphadenitis
- E. Lymphogranulomatsis
- 55. The patient G., 37 years old, during three months marks frequent nose-bleedings and menorrhagia, appearance of bruises on skin. Three days ago after considerable nose-bleeding, dizziness, palpitation appeared. At examination: on the skin of front

surface of trunk and feet - plural petechias, single ecchymoses. In blood test: E- 3.0×10^{12} /l, Hb-100 g/l, CI-0,7; L-5,3×10⁹/l, T-40,0×10⁹/l, blood sedimentation-19 mm/h. What diagnosis can be suspected at this patient:

- A. Aplastic anemia
- B. Hemophilia
- C. Hemorrhagic vasculitis
- D. Iron deficiency anemia
- E. Autoimmune thrombocytopenic purpura
- 56. The patient A., 42 years old, complains on dizziness, appearance of bruises on skin, nose-bleedings, and weight loss. He is ill for 3 months. At examination: reduced feed, skin is pale with presence on the front surface of hands, feet and trunk of different remoteness of plural bruises by diameter from 0,2 to 3,0 sm. What type of hemorrhage takes place at the patient:
- A. Angiomatosal
- B. Hematomal
- C. Mixed
- D. Vasculit-purpural
- E. Petechia-macular
- 57. At the 26 years old patient yellowness of skin, dizziness, palpitation, spleen +2,5 sm determined. Urine is dark, feces of umber color. In blood test there are normochromic anemia, reticul-4%. Reaction on urobilin is Acutely positive. What research must be conducted for establishment of diagnosis:
- A. Definition of vitamin B12
- B. Definition of iron of blood serum
- C. Definition of osmotic resistance of erythrocytes
- D. Electrophoresis of proteins of blood serum
- E. Sternal puncture
- 58. The patient A., 20 years old, delivered to inpatient facility concerning pit bleeding after extraction of tooth. In blood test: E-2,80x10 12 /l, Hb-80 g/l, L-4,0x10 9 /l, e-2%, r/n- 3%, s/n-62%, l-28%, m-5%; T-24,0x10 9 /l: blood sedimentation-25 mm/h. What disease can be assumed at the patient:

- A. Autoimmune thrombocytopenic purpura.
- B. Acute leukemia
- C. Hemophilia B
- D. Agranulocytosis
- E. Aplastic anemia
- 59. The patient S, 21 years old, after radial irradiation complains on palpitation, dyspnea, frequent nose-bleedings, bruises on body. The patient marks frequent acute respiratory diseases. In blood test: E-2,0x10 12 /l, Hb-54 g/l, L-1,7x10 9 /l, e-0%, r/n-0%, s/n-32%, l-62%, m-6%; T-30,0x10 9 /l, blood sedimentation-52 mm/h. What treatment is most expedient in this case:
- A. Transfusion of thrombocytic mass B. Bone marrow transplantation
- C. Transfusion of packet red cells
- D. Transfusion of whole blood
- E. Introduction of antilymphocytic immunoglobulin
- 60. The patient E., 57 years old, complains on pain in lumbar area, bones of pelvis, increase of temperature to 37,3C, weight loss. At examination: anemia, blood sedimentation-70 mm/h, general protein-110 g/l, moderate proteinuria, sediment is without pathology. At roentgenologic inspection there are destructive changes in the bones of skull. What is the most credible diagnosis:
- A. Multiple myeloma
- B. Cancer of stomach
- C. Bechterew's disease
- D. Metastases of tumor in bones
- E. Chronic glomerulonephritis
- 61. The patient M., 52 years old, appealed to doctor with complaints on itch of skin after washing, heavy feeling in head, dizziness. Objectively: face, neck, extremities are of crimson color, AP-180/100, spleen +4 sm. What is the most reliable diagnosis:
- A. Allergic dermatitis
- B. Hypertonic illness
- C. Chronic myeloleukemia

- D. Erythremia
- E. Cirrhosis of liver
- 62. The patient C., 60 years old, complains on dyspnea. During many years he is suffering on chronic obstructive pulmonary disease. Objectively: diffuse cyanosis, obesity is expressed, AP-180/110, dry rales, liver and spleen are increased. In blood test: E-6,6x10 12 /l, Hb-190 g/l, L-15x10 9 /l, T-529,0x10 9 /l, blood sedimentation-2 mm/h. What research can help to set the diagnosis:
- A. Research of function of external breathing
- B. US investigation of abdominal cavity
- C. Sternal puncture
- D. Sciagraphy of thorax
- E. Puncture of liver
- 63. The pregnant, 18 years old (20 weeks), complains on weakness, dyspnea at physical load. At women's dispensary she was not observed before. Objectively: skin is pale with lemon tint; face is puffy, language bright red, liver +3 sm. In blood test: E- 3,0x10¹²/l, Hb-88 g/l, CI-1,4; L-3,8x10⁹/l, T-130,0x10⁹/l; e-3%; r/n-4%; s/n-52%; l- 36%; m-5%; macrocytosis, blood sedimentation-38 mm/h. What research can help to set the diagnosis:
- A. Sternal puncture.
- B. Definition of concentration of folates in red corpuscles of blood
- C. Definition of ferritin of blood
- D. Definition of B12 in blood
- E. Definition of iron of blood serum
- 64. At the 65 years old man B12 deficiency anemia is diagnosed. In a week after the appointed treatment control inspection of peripheral blood is conducted. What index will be the early criterion for estimation of efficiency of the conducted therapy:
- A. Increase of amount of reticulotcytes
- B. Increase of level of hemoglobin
- C. Decline of colour index of blood
- D. Normoblastic blood formation
- E. Increase of number of leukocytes

- 65. The patient, 20 years old, passed regular course of polychemotherapy by the scheme of "VAMP" concerning acute lymphoblastic leukemia. He has complaints on weakness, hair fall. In blood test: E-3,5x10 12 /l, Hb-105 g/l, CI-0,9; L-4,2x10 9 /l, T-120,0x10 9 /l. What picture of bone marrow can testify about remission:
- A. Content of blastic cells to 5 %
- B. Content of blastic cells to 15 %
- C. Content of blastic cells to 10 %
- D. Content of blastic cells to 1 %
- E. Absence of blastic cells
- 66. The patient O., 62 years old, with increased feed, complains on headache, dizziness, pressing pain in the area of heart at moderate physical load. Objectively: face and hands with hyperemia, accent of the second tone above aorta, AP-170/104, liver +3 sm, spleen +2 sm. In blood test: E-6,2x10¹²/l, Hb-I86 g/l, L-11,2x10⁹/l, blood sedimentation-1 mm/h. On ECG there is flatten wave T in V₁-V₄. What previous diagnosis can be put in this case:
- A. Cushing's disease
- B. Hypertonic illness of II stage
- C. Erythremia
- D. Secondary erythrocytosis on background of obesity
- E. Cirrhosis of liver
- 67. At the 62 years old woman, who used butadion in connection with pain in joints, pain in throat, dry cough, and febrile temperature appeared. What changes it is possible to assume in general analysis of blood:
- A. Increase of number of mature granulotcytes
- B. Decrease of number or absence of granulotcytes
- C. Increase of number of ripening granulotcytes
- D. Increase of number of lymphocytes
- E. Decrease of number or absence of lymphocytes
- 68. The youth of 18 years old is hospitalized with complaints on nose bleeding, which doesn't succeed to be stopped, and hard pain in right elbow joint. He is ill from babyhood. Objectively: elbow joint is increased, perceptible hot, knee-joints are

deformed, motions in them are limited, heart rate-90, AP-105/70. In blood test: E- 3.2×10^{12} /l, Hb-110 g/l, CI-0,7, L- 5.6×10^{9} /l, T-220,0 $\times 10^{9}$ /l, blood sedimentation-14 mm/h. What preparation it is necessary to use in treatment:

- A. Packet red cells
- B. Calcii chloridi
- C. Codginate
- D. Aminocapron acid
- E. Vikasol
- 69. At the 65 years old woman, who used butadion in connection with pain in joints, pain in throat, febrile temperature, chill appeared. Doctor suspected agranulocytosis. Agranulocytosis is:
- A. Decrease of maintenance of granulocytes in blood
- B. Increase of maintenance of agranulocytes in blood
- C. Decrease of number of neutrophilic granules with the simultaneous increase of their size
- D. Loss of granules in granulocytes
- E. Appearance of granules in agranulocytes
- 70. The 42 years old man complains on palpitation, nose-bleeding. Objectively: on the skin of extremities and trunk petechia-spotal hemorrhages, lymphatic knots are not palpated, pulse-116, liver is not increased, spleen is not palpated. In blood analysis there is pancyitopenia. About what disease it is possible to think:
- A. Verlgoph's disease
- B. Acute leukemia
- C. Aplastic anemia
- D. Hemorrhagic vasculitis
- E. Acute agranulocytosis
- 71. The 63 years old woman is hospitalized in the hematological separation with complaints on pressing retrosternal pain, dyspnea, paresthesia of feet. Objectively: temperature of body 37,6°C, yellowness of white of the eyes, liver +2 sm. In blood test: $E-1,5\times10^{12}/l$, Hb-70 g/l, CI-1,3, L-2,6x10⁹/l, T-132,0x10⁹/l, reticul-0,6%, bilirubin is moderately increased due to indirect. In myelogram: megaloblastic type of blood

formation. What is the most credible diagnosis:

- A. Follic deficiency anemia
- B. B12 deficiency anemia
- C. Inborn hemolytic anemia
- D. Gained hemolytic anemia
- E. Iron deficiency anemia
- 72. The sick T., 24 years old, is hospitalized in the hematological separation with complaints on pain in lumbar area and right subcostum, acute weakness. In the anamnesis there was flu a week ago. Objectively: skin is pale-icteric, liver +2 sm, sensible. In blood: E-2,0x10¹²/l, Hb-64 g/l, CI-0,9, L-12,0x10⁹/l; reticul-8%, bilirubin- 38 mkml/l, mainly due to indirect, the direct Coombs` test is positive. What is the previous diagnosis:
- A. Hypoplastic anemia
- B. Markiafav Mikelli`s disease
- C. Inborn hemolytic anemia
- D. Adison Biermer disease
- E. Gained immune hemolytic anemia
- 73. The patient T., 34 years old, complains on chill, osalgia, nose-bleeding. Objectively: temperature of body-38,6°C, skin is pale, pulse-120, AP-100/70. In blood test: E-2,7x10 12 /l, Hb-90 g/l, CI-0,9; L-38,0x10 9 /l, blast-68%, r/n-2 %, s/n-8%, 1-20%, m-2%, T-25x10 9 /l, blood sedimentation-46 mm/h. What disease it follows to suspect at the patient:
- A. Acute leukemia.
- B. Leukemoid reaction
- C. Chronic lympholeukemia
- D. Chronic myeloleukemia
- E. Acute agranulocytosis
- 74. The 63 years old man appealed with complaints on acute general weakness, bad appetite, weight loss, heavy feeling in the left subcostum. In blood test: E-3,4x10 12 /l, Hb-102 g/l, CI-0,9; L-190x10 9 /l, bas-3%, eozin-8%, blast-1%, promyel-2%, myel-2%,

metamyel-13%, youn-12%, r/n-16%, s/n-31%, l-9%, m-9%, $T-240,0x10^9/l$, blood sedimentation-30 mm/h. What is the previous diagnosis:

- A. Leukemoid reaction of myeloid type
- B. Acute leukemia
- C. Chronic myeloleukemia
- D. Erythromyelosis
- E. Chronic lympholeukemia
- 75. The 65 years old man complains on weakness, dyspnea, numbness of lower extremities. Objectively: skin is pale with subicteric tint, language is bright red, liver +3 sm. At FGDS there is atrophy of mucous membrane. In blood test: E-2,4x10¹²/l, Hb-66 g/l, CI-1,4, L-2,8x10⁹/l, e-2%, r/n-4%, s/n-50%, 1-42%, m-5%, reticul-0,5%, T-120,0x10⁹/l, macrocytosis, blood sedimentation-26 mm/h. What disease it follows to suspect at the patient:
- A. Hemolytic anemia
- B. Iron deficiency anemia
- C. Hypoplastic anemia
- D. B12 deficiency anemia
- E. Follic deficiency anemia
- 76. The 35 years old woman, is delivered in clinic after loss of consciousness on the street, complains on acute weakness, dizziness. Objectively: pallor of skin, there are hemorrhages on the skin of forearms and thighs, lymphatic knots are not increased, pulse-100, AP-90/60, liver and spleen are not increased. In blood test: E-1,5x10 12 /l, Hb- 42 g/l, CI-0,8, reticul-0,1%, L-1,0x10 9 /l, e-1%, r/n-1%, s/n-45%, l-51%, m-2%, T-50,0x10 9 /l, blood sedimentation-45 mm/h. What is the most reliable diagnosis:
- A. Verlgoph's disease
- B. Aplastic anemia
- C. Iron deficiency anemia
- D. Hemorrhagic vasculitis
- E. Posthemorrhagic anemia
- 77. The 37 years old man complains on weakness, periodic attacks of pain in the right

subcostum, which appeared 2 years ago. In the anamnesis: from 16 years periodically icteric colour of skin is marked. Objectively: skin and mucouses are icteric, hepatosplenomegaly. In blood test: E-2,4x10¹²/l, H-84 g/l, CI-1,0, reticul-4%, blood sedimentation-22 mm/h, osmotic resistance of erythrocytes is reduced, microspherocytosis, indirect bilirubin-56 mkmol/l, direct-8,2 mkmol/l.What pathogenesis of anemia the patient has:

- A. Genetic defect of membrane of erythrocytes
- B. Disturbance of structure of molecule of hemoglobin
- C. Disturbance of structure or synthesis of chains of globin
- D. Influence of antibodies on erythrocytes
- E. Toxic hemolysis
- 78. The 48 years old man was ill on flu 2 weeks ago, now he complains on dyspnea, palpitation. Objectively: skin and mucouses are icteric, temperature of body-37,8°C, pulse-120, AP-105/70, spleen is palpated. In blood test: E-2,0x10¹²/l, Hb-70 g/l, CI-1,0, reticul-18%, osmotic resistance and middle diameter of erythrocytes are norm, general bilirubin-76 mkmol/l, indirect-63 mkmol/l. What is the most reliable diagnosis:
- A. Markiafay Mikelli`s disease
- B. Hereditary microspherocytosis
- C. Benign hyperbilirubinemia
- D. Autoimmune hemolytic anemia
- E. Cholecystolithiasis
- 79. The patient P., 58 years old, complains on causeless appearance of bruises on skin, hemorrhage of gums, dizziness. Objectively: the mucouses and skin are pale, with numerous hemorrhages of different remoteness, lymphatic knots are not increased, pulse-100, AP-110/70. In blood test: E-3,0x10¹²/l, Hb-92 g/l, CI-0,7, anisocytosis, poikilocytosis, L-10,0x10⁹/l, e-2%, r/n-12%, s/n-68%, l-11%, m-7%, blood sedimentation-12 mm/h. What laboratory index it is expedient to define for clarification of diagnosis:
- A. Osmotic resistance of erythrocytes
- B. Content of reticulocytes
- C. Clotting time of blood
- D. Content of thrombocytes

E. Fibrinogen

- 80. The 30 years old woman first appealed to doctor with complaints on frequent nose-bleedings, appearance of bruises on body. She is ill for half a year. After examination the diagnosis of idiopathic thrombocytopenic purpura is set. From what it is necessary to begin treatment of the sick:
- A. Transfusion of thrombocyte concentrate
- B. Cytostatic preparations
- C. Immunoglobulin
- D. Splenectomy
- E. Glucocorticoids
- 81. The 60 years old woman during 4 years is under surveillance of doctor-hematologist concerning chronic lympholeukemia. During last 6 months she had pneumonia twice. In blood test: E-3,1x10 12 /l, Hb-90 g/l, CI-0,9, L-160,0x10 9 /l, e-1%, r/n-2%, s/n-21%, l- 74%, m-2%, blood sedimentation-20 mm/h, general protein-60 g/l, gamma-globulin- 14%. What changes in blood are more credible to assist development of complications at the sick:
- A. Decrease of hemoglobin
- B. Hypogammaglobulinemia
- C. Increase of leucocytes
- D. Increase of lymphocytes
- E. Hypergammaglobulinemia
- 82. The 72 years old man complains on rapid fatigability, perspiration, which appeared two months ago. Objectively: t-37,7°C, liver +2 sm, spleen +8 sm, dense, sensible. In blood test: E-3,2x10 12 /l, Hb-110 g/l, CI-1,1; L-255x10 9 /l, bas-7%, e-9%, promyel-2%, myel-22%, metamyel-20%, r/-17%, s/n-15%, l-8%, blood sedimentation-15 mm/h, T- 250,0x10 9 /l. What disease is more reliable stipulated such changes in blood:
- A. Erythremia
- B. Acute myeloblastic leukemia
- C. Non Hodgkin`s lymphoma
- D. Chronic myeloleukemia

- E. Leukemoid reaction of myeloid type
- 83. The 60 years old woman complains on weakness, rapid fatigability for a year. Heavy feeling in the left subcostum, subfebrile temperature, weight loss joined a month ago. Objectively: skin is pallor, liver +2 sm, spleen +7 sm, dense, moderately painful. In blood test: E-3,0x10¹²/l, Hb-110 g/l, CI-1,1, L-280,0x10⁹/l, blast cells-23%, bas-6%, e- 6%, myel-10%, r/n-19%, s/n-7%, l-19%, T-180x10⁹/l, blood sedimentation-32 mm/h. What is the most reliable diagnosis:
- A. Chronic myeloleukemia, blastic crisis
- B. Acute myeloblastic leukemia
- C. Acute lymphoblastic leukemia
- D. Chronic lympholeukemia
- E. Leukemoid reaction of myeloid type
- 84. The 28 years old woman complains on weakness, periodic increase of temperature of body to 39,0°C, perspiration at night-time, weight loss. Objectively: skin is pale, increased cervical, supraclavicular and inguinal lymphatic knots, which are palpated by size to 1,5-2 sm, dense, unpainful. In blood test: E-3,0x10¹²/l, Hb-90 g/l, CI-0,8, L-13,0x10⁹/l, e-3%, r/n-9%, s/n-78%, 1-7%, m-3%, blood sedimentation-48 mm/h. Suspicion about lymphogranulomatosis appeared, biopsy of lymphatic knot is appointed to. The presence of what changes is reliable at the research:
- A. Proliferation of prolymphocytes and lymphoblasts
- B. Proliferation of lymphocytes, lymphoblasts
- C. Berezovsky Shternberg cells
- D. Proliferation of prolymphocytes and lymphocytes
- E. Proliferation of lymphocytes and plasmocytes
- 85. At the 68 years old woman in blood test anemia and increase of blood sedimentation were discovered. In the anamnesis: during last 1,5 years there were fractures of bones twice. Objectively: pallor of skin, painful senses at percussion of ribs. In blood test: E- 2,4x10¹²/l, Hb-76 g/l, CI-0,9, L-4,8x10⁹/l, e-1%, r/n-4%, s/n-60%, l-28%, m-7%, blood sedimentation-76 mm/h, T-140x10⁹/l. In analysis of urine: protein-3,3 g/l, L-6-8, E-8- 10. Conducting of what research is more expedient for confirmation of diagnosis:

- A. Bense-Jones protein of urine
- B. Biopsy of kidneys
- C. Urgent urography
- D. Sternal puncture
- E. Immunoglobulins of blood
- 86. The 28 years old woman appealed to doctor with complaints on hemorrhages on the front surface of trunk and extremities, bleeding from gums. In blood test: $T-20.0 \times 10^{9} / 1$; in bone marrow number of megakaryocytes is increased. Treatment with glucocorticoids was conducted and gave positive effect. What disease was diagnosed at the woman:
- A. Hemorrhagic vasculitis
- B. Hemophilia
- C. Randyu-Osler's disease
- D. DIC syndrome
- E. Idiopathic thrombocytopenic purpura
- 87. The 28 years old sick appealed to internist with complaints on weakness, dizziness, nose-bleedings. She is ill for 4 months. Objectively: there are hemorrhages in the area of stomach and thighs by size 1-2 sm of different color. Liver and spleen are not increased. In blood test: E-2,6x10¹²/l, Hb-90 g/l, CI-0,8, iron of blood serum-8,0 mkml/l, L-4,2x10⁹/l, e-2%, r/n-7%, s/n-40%, m-6%, 1-45%, T-47,1x10⁹/l, blood sedimentation-27 mm/h. Your previous diagnosis:
- A. Idiopathic thrombocytopenic purpura
- B. Hemolytic anemia
- C. Chronic iron deficiency anemia
- D. Chronic lympholeukemia
- E. Aplastic anemia
- 88. The patient P., 50 years old, complains on weakness, dizziness, heavy feeling in the upper half of stomach, paresthesias in finger-tips of hands and feet. Objectively: yellowness of skin, language of raspberry color, hepatomegaly. At blood: $E-2,3x10^{12}/l$, Hb-90 g/l, reticul-0,2%, CI-1,3, macrocytosis, Jolly`s bodies. Specify, what is not characteristic for this anemia:

- A. Paresthesia
- B. Ataxia
- C. Muscular atrophy
- D. Delirium, hallucinations E. Decrease of intellect
- 89. Patient A., 26 years old, complains on fever, itch of skin, perspiration at night. Objectively: temperature of body-38,6C, right supraclavicular lymphatic knot is palpated, it is increased, mobile. What research is the most informative for confirmation of diagnosis:
- A. Albuminous fractions of blood
- B. General analysis of blood
- C. Survey sciagraphy of pectoral cavity
- D. Immunogram
- E. Puncture of lymphatic knot
- 90. At the 28 years old sick expressed icterus appeared after self-treatment of flu with unsteroid anti-inflammatory preparations and antibiotics. At examination increased liver, oliguria, dark colouring of urine are discovered. Laboratory researches: $E = 2.0 \times 10^{12} / l$, Hb-60 g/l, CI-0,9, L-12x10⁹/l with change of formula to the left, reticul-14%. The increase of indirect fraction of bilirubin is determined in serum of blood. The Coombs` test is positive. About what disease it is possible to think:
- A. Acute glomerulonephritis
- B. Aplastic anemia
- C. Toxic hepatitis
- D. Acute leukemia
- E. Autoimmune hemolytic anemia
- 91. The patient S., 73 years old, appealed to neurologist with complaints on pain in lumbar area. The doctor diagnosed radiculitis. After the conducted physical therapy condition of patient was not improved. After additional research on R-grams of bones of spine and pelvis osteoporosis and defects of bones were found out. In blood test: moderate normochromic anemia, in urine proteinuria, general protein of blood serum 97 g/l. About what disease it follows to think:
- A. Osteochondrosis with radicular syndrome

- B. Senil osteoporosis
- C. Multiple myeloma
- D. Metastases in bones
- E. Lymphogranulomatosis
- 92. The patient O., 31 years old, appealed to doctor with complaints on fever, weight loss, itch of skin. At objective inspection increased unpainful lymphatic knot in the left supraclavicular area is discovered. Liver and spleen are not increased. In blood test: Hb- 80 g/l, L- $16,6x10^9/l$, e-2%, r/n-8% s/n-60%, l-24%, m-6%, blood sedimentation-55 mm/h, T- $190x10^9/l$. What is the most expedient research for confirmation of diagnosis:
- A. FGDS
- B. Trepanobiopsy
- C. Sternal puncture
- D. Bens-Jones protein of urine
- E. Biopsy of lymphatic knot
- 93. The patient Y., 18 years old, is hospitalized with bleeding from incised wound of palm, which lasted 2 days. Considerable bleeding at wounds was observed from childhood. The similar phenomena are marked at cousin for the line of mother. Skin is pale, knee and ankle joints are increased, deformed, motions in them are limited. Laboratory researches: number of thrombocytes- $320,0x10^9/1$, bleeding time by Dyuke-3 minutes. What preparations it is necessary to enter the patient:
- A. Cryoprecipitate
- B. Heparin
- C. Prednizolon
- D. Thrombocytaric mass
- E. Calcii gluconati
- 94. The sick, 30 years old, complains on weakness, hemorrhage of gums, increase of temperature of body, pain in throat. There was contact with aniline dyes during 8 years. At examination: skin is pale, with numerous petechias and ecchymoses, liver and spleen are not palpated. In blood test: $E-2.5\times10^{12}$ /l, Hb-80 g/l, CI-0.9, L-2.4×10⁹/l, Thr- 50.0×10⁹/l, blood sedimentation-40 mm/h. In myelogram: bone marrow is with acutely reduced number of cells. What diagnosis can be suspected at the patient:

- A. Acute leukemia
- B. Hypoplastic anemia
- C. B12 deficiency anemia
- D. Verlgoph's disease
- E. Agranulotcytosis
- 95. The sick I., 41 years old, complains on pain in throat, ribs and breastbone. At examination: t of body 38,0°C, skin is pale, with presence of petechias and bruises, pulse 100, insignificant hepatosplenomegaly, there are numerous ulcers with necrotic edges on the mucous of mouth. In blood test: E-2,5x10¹²/l, Hb-70 g/l, CI-0,9, L-28,0x10⁹/l, blast-78%, s-4%, l-13%, m-5 %, T-17,5x10⁹/l. blood sedimentation-60 mm/h. What is the most reliable diagnosis:
- A. Acute leukemia.
- B. Diphtheria
- C. Hemorrhagic vasculitis
- D. Chronic hepatitis
- E. Stomatitis
- 96. The patient T., 62 years old, complains on permanent pain in breastbone and loin, general weakness, stuffiness. On the sciagram of spine: clinoid deformation of Thx, diffuse osteoporosis of almost every vertebra. In blood test: Hb-90 g/l, E-2,1x10 12 /l, L- 3,8x10 9 /l, Thr-170,0x10 9 /l, blood sedimentation-78 mm/h. General protein of blood-110 g/l. In urine: protein-2,9 g/l, L-2-4, E-4-6, are changed, hyalin cylinders-2-4.In myelogram-18% of plasma cells. What is the most reliable diagnosis:
- A. Compressional break of vertebra
- B. Metastases of tumor in spine
- C. Amyloidosis of kidneys
- D. Multiple myeloma
- E. Acute leukemia
- 97. The 38 years old woman, who suffers on menorrhagias, complains on twinkling of "spots" before eyes, dizziness, fragility of nails, hair fall. At examination: skin is pale and dry, pulse -100, rhythmic. In blood test: E-3,3x10¹²/l, Hb-90 g/l, CI-0,7, reticul- 0,8%, L-4,8x10⁹/l, e-2%, r/n-3%, s/n-62%, l-25%, m-10%, hypochromia of

erythrocytes, microcytosis, iron of blood serum - 4,2 mkmol/l. What is the most reliable diagnosis:

- A. Hypoplastic anemia
- B. Hemolytic anemia
- C. B12 deficiency anemia
- D. Thalassemia
- E. Iron deficiency anemia
- 98. The sick F., 49 years old, complains on pain in the left subcostum, general weakness, rapid fatigability, weight loss. Objectively: skin and mucouses are moderately pale, pulse-92, rhythmic, liver +4 sm, painless, dense, lower edge of spleen is at the level of umbilicus.In blood test: E-3,0x10 12 /l, Hb-90 g/l, CI-0,9, L-540,0x10 9 /l, promyel-10%, myel-13%, youn-11%, r/n-28%, s/n-22%, e-5%, bas-4%, 1-4%, m-3%, T- 345,0x10 9 /l, blood sedimentation-38 mm/h. What is the most reliable diagnosis:
- A. Leukemoid reaction of myeloid type
- B. Chronic myeloleukemia
- C. Budd Chiari syndrome
- D. Cirrhosis of liver
- E. Chronic lympholeukemia
- 99. The 45 years old man complains on general weakness, dizziness. During 15 years there is ulcer of duodenum. Objectively: skin is pale, pulse-100, AP-100/70. At subsequent inspection anemia, low colour index in blood test are discovered. Colour index is:
- A. Ratio of the volume of form elements of blood to the volume of blood
- B. Degree of admission of every eruthrocyte with hemoglobin
- C. Increase of number of erythroblasts in bone marrow
- D. Percent correlation of separate forms of leukocytes of blood
- E. Blood sedimentation
- 100. The 60 years old woman complains on general weakness, sense of overfill in epigastrium, nausea, belch after meal. She is ill over 10 years. Objectively: skin and mucouses are pale, pulse-98, AP-115/75. In blood test: $E-2,0x10^{12}/l$, Hb-100 g/l.

Antibodies to oxyntic cells of stomach are found out. What is the most credible reason of development of anemic syndrome at the sick:

- A. Production of antibodies to gastromucoprotein
- B. Disturbance of synthesis of hemoglobin
- C. Disturbance of synthesis of erythropoetin
- D. Disturbance of suction of iron
- E. Increase of charge of iron
- 101. The patient P., 60 years old, complains on general weakness, feeling of weight in epigastrium and belch after meal. Objectively: skin and of mucouses are pale, pulse-110, AP-115/70. In blood test: E-2,0x10¹²/l; Hb-100 g/l; CI-1,5, blood sedimentation-28 mm/h. Antibodies to oxyntic cells of stomach are found out. What is the best tactic of treatment of anemic syndrome at the sick:
- A. Preparations of hydrochloric acid
- B. Vitamin B12 intramuscular
- C. Preparations of iron per os
- D. Preparations of iron parenteral
- E. Transfusion of packet red cells
- 102. The 45 years old man complains on general weakness, dizziness. During 15 years there is ulcer of duodenum. Objectively: skin is pale, pulse-100, AP-90/70. What primary inspection must be conducted at the patient:
- A. General blood test, maintenance of ferritin of blood
- B. General blood test, FGDS
- C. Content of iron of blood
- D. Content of ferritin of blood
- E. General analysis of blood, maintenance of iron of blood
- 103. The 54 years old woman complains on weakness, numbness of finger-tips, shaky step, heartburn in language. Objectively: skin is pale, pulse-110, systolic noise above the apex of heart, language of bright red. In blood test: E-2,3x10 12 /l, Hb-58 g/l, reticul- 0,2%, CI-1,3, macrotcytosis, L-2,8x10 9 /l, blood sedimentation-40 mm/h., T-120,0x10 9 /l. What pathogenetic factor conducts in development of anemia:
- A. Tumor oppression of normal blood formation

- B. Intravessal hemolysis
- C. Disturbance of synthesis of hemoglobin
- D. Disturbance of transport of iron from reticuloendothelial depot
- E. Disturbance of differentiation of erythroid cells
- 104. At the sick, 42 years old, after acute respiratory disease, fever is saved. At examination: on the skin of trunk and extremities petechia-macular rash, lymphatic knots of arm-pits are increased, soft, painless, tachycardia, systolic noise above all auscultative points, liver and spleen are increased. In blood test: Hb-100 g/l, E- 3.1×10^{12} /l, CI-1,0, L- 3.5×10^{9} /l, blast-33%, r/n-3%, s/n-35%, e-1%, l-20%, m-8%, blood sedimentation-20 mm/h., T- 55.0×10^{9} /l. What diagnosis is most credible:
- A. Chronic myeloleukemia
- B. Infectious endocarditis
- C. Acute leukemia
- D. Verlgoph's disease
- E. Lymphogranulomatosis
- 105. The patient T., 19 years old, marked growing weakness, skin hemorrhages, nosebleedings, subfebrile temperature during last 2 months. Lymphatic knots, liver, spleen, are not increased. In blood test: E-1,5x10 12 /l, Hb-50 g/l, reticul-0,1%, CI-0,9, L-1,8x10 9 /l, e-1%, r/n-3%, s/n-58%, l-33%, m-5%, T-30,0x10 9 /l, blood sedimentation-60 mm/h., iron of blood serum -15 mkmol/l. What is the most credible diagnosis:
- A. Hemolytic anemia
- B. Acute leukemia
- C. Aplastic anemia
- D. B12 deficiency anemia
- E. Iron deficiency anemia
- 106. The 37 years old woman complains on muscular weakness, palpitation, hard swallowing of meal, has a desire to eat chalk. Objectively: satisfactory feed, skin is pale, pulse-116, AP-90/70. In blood test: E-3,1x10¹²/l, Hb-80 g/l, CI-0,7, reticul-0,8%, L-4,7x10⁹/l, e-2%, r/n-3%, s/n-64%, l-26%, m-5%, blood sedimentation-15 mm/h. Iron of blood serum-4,3 mkmol/l, general protein-70 g/l. The deficit of what element stipulated the origin of the disease:

- A. Protein
- B. Vitamin B6
- C. Vitamin B12
- D. Iron (Fe++)
- E. Follic acid
- 107. The 23 years old student complains on pain in knee-joints, increase of temperature of body. In the anamnesis: there was angina 10 days ago. Objectively: t-37,8°C, heart rate-120, AP-105/70, knee joints, slightly swollen, there are symmetric hemorrhagic rash on the skin of shins. In blood test: L-8,4x10⁹/l, blood sedimentation-22 mm/h., T- 190,0x10⁹/l, prothrombin index-90%. Diurnal proteinuria-0,66 g/l., in analysis of urine by Nechiporenko: L-2000, E-9000 in 1mkl. What is the most credible diagnosis:
- A. Verlgoph's disease
- B. Hemorrhagic vasculitis
- C. Acute rheumatic fever
- D. Systemic lupus erythematosus
- E. Nodular periarteriitis
- 108. The 38 years old man, who is suffering on hemorrhoid, complains on twinkling of "spots" before eyes, dizziness. At examination: pallor of skin, pulse-100, AP-90/60, systolic noise above the apex of heart.In blood test: Hb-95 g/l, E-3,3x10¹²/l, CI-0,7, L-9,8x10⁹/l, e-2%, r/n-3%, s/n-70%, l-24%, m-1 %, blood sedimentation-25 mm/h., hypochromia of erythrocytes, iron of blood serum-5,2 mkmol/l. What is the most reliable reason of sistolic noise:
- A. Narrowing of main vessels
- B. Myocarditis
- C. Tachycardia
- D. Low AP
- E. Acceleration of blood flow
- 109. The sick C., 39 years old, marks weakness, dizziness, dyspnea, muscular weakness during 4 months. In the anamnesis: fibromyoma of uterus, uterine bleeding. In blood test: Hb-80 g/l, E-2,2x10¹²/l, CI-0,7, blood sedimentation-28 mm/h.,

anisocytosis, poikilotcytosis, iron of blood serum-5,3 mkmol/l.Tactic of conducting of the sick:

- A. Dietary nutrition
- B. Complex of vitamins
- C. Permanent reception of preparations of iron
- D. Dietary nutrition, course reception of preparations of iron
- E. Dietary nutrition, complex of vitamins
- 110. The patient, 19 years old, complains on general weakness, pain in bones, fever. At examination systematic increase of lymphatic knots, hepatolienal syndrome are found out. In blood test: $E-2.2x10^{12}/l$, Hb-67 g/l, $L-20x10^{9}/l$, blast-45%, r/n-3%, s/n-7%, l- 40%, m-5%, T-45,0x10⁹/l, blood sedimentation-55 mm/h. What diagnosis can be set at the patient:

A.Acute leukemia

- B. Chronic myeloid leukemia
- C. Chronic lympholeukemia
- D. Hypoplastic anemia
- E. Agranulotcytosis
- 111. At the patient T., 68 years old, systematic increase of lymphatic knots, hepatosplenomegaly, icterus are found out. In blood test: E-2,4x10 12 /l, Hb-65 g/l, reticul-10%, T-190x10 9 /l, L-250x10 9 /l, r/n-1%, s/n-7%, l-87%, m-5%, blood sedimentation-55 mm/h. What complication of basic disease can be suspected on clinic-laboratory indexes:
- A. Toxic neutropenia
- B. Aplastic anemia
- C. Autoimmune hemolysis
- D. Agranulocytosis
- E. Hepatitis
- 112. The patient with chronic myeloleukemia complains on acute pain in the left subcostum. Objectively: protective tension of muscles is discovered at palpation in the projection of the left part of stomach, the pole of spleen is palpated. At auckultation of subcostum noise of friction is marked. What complication does it follow to suspect:

- A. Renal colic
- B. Strangulation of diaphragmatic hernia
- C. Acute pancreatitis
- D. Infarct of spleen
- E. Torsion of colon
- 113. The patient S., 57 years old, at examination widespread osteoporosis of vertebra is found out. In blood test: E-3,4x10¹²/l, Hb-80 g/l, T-145,0x10⁹/l, L-5,6x10⁹/l, e-3%, r/n- 5%, s/n-57%, l-29%, m-6%, blood sedimentation-55 mm/h. In analysis of urine: protein-0,264 g/l.General protein of blood is 108 g/l. What research must be done for confirmation of diagnosis:
- A. Definition of circulating immune complexes
- B. Definition of level of parathyroid hormone
- C. Sternal puncture
- D. Densytometry
- E. Biopsy of kidneys
- 114. The sick L., 18 years, is hospitalized with bleeding from incised wound of palm, which lasted 2 days. Skin is pale, knee and ankle joints are increased, deformed, motions in them are limited. Laboratory researches: number of thrombocytes $420,0x10^9/1$, bleeding time by Dyuke-3 minutes, clotting time by Li-Uayt-27 min., prothrombin index-100%, fibrinogen-4 g/l. The prophylaxis of what complication needs to be conducted at the patient:
- A. Pathological fractures
- B. Posthemorrhagic anemia
- C. Thrombosis
- D. Aplastic anemia
- E. Infecting of hematoma
- 115. The 63 years old man marks headache during few years, periodic pressing pain in the area of heart. In the anamnesis: smoking more than 40 years; two packs of cigarettes a day. Objectively: face of red color, there are dry, whistling rales above lungs, AP- 185/95. In peripheral blood: E-6,5x 10^{12} /l, Hb-185 g/l, L-6,0x 10^{9} /l, blood sedimentation- 5 mm/h. T-190x 10^{9} /l. What primary research needs to be conducted for

clarification of diagnosis:

- A. US investigation of abdominal cavity, research of function of external breathing
- B. ECG, ECHOCS
- C. Sternal puncture
- D. Consultation of oculist
- E. US investigation of abdominal cavity
- 116. At the 23 years old man has fever, perspiration, dizziness, nasal and gingival bleeding, hemorrhages on the skin of trunk during a week. In blood test: Hb-72 g/l, E- 2.3×10^{12} /, L- 7.6×10^{9} /l, blast-86%, s-5%, l-9%, blood sedimentation-23 mm/h. This state is characterized with all resulted syndromes, except:
- A. Anemic
- B. Hemorrhagic
- C. Ulcerous-necrotic
- D. Infectious
- E. Bronchospastic
- 117. The sick D., 56 years old, marks weakness, pain in bones, decline of appetite, headache during 4 months. Treated oneself at neurologist, passed completed course of manual therapy. Laboratory researches: anemia, general protein-112 g/l, blood sedimentation-68 mm/h, moderate proteinuria. On the sciagram of pelvis there are defects of bone fabric of the rounded form. What diagnosis can be set at the patient:
- A. Multiple myeloma
- B. Metastases of tumor in bones
- C. Systematic osteoporosis
- D. Amyloidosis of kidneys
- E. Chronic glomerulonephritis
- 118. The patient T., 62 years old, is hospitalized in comma. In blood test: Hb-38 g/l, E- $0.7x10^{12}$ /l, CI-1,2, macrocytosis, reticul-0,2 %, leukopenia, thrombotcyopenia. In bone marrow: megaloblastic type of blood formation. Name the preparation for effective treatment of the sick:

A. Preparations of iron intravenous

- B. Packet red cells intravenous drop
- C. Cyancobalamin intramuscular, packet red cells intravenous drop
- D. Preparations of iron intravenous, packet red cells intravenous drop
- E. Cyancobalamin intramuscular
- 119. The sick S., 50 years old, complains on general weakness, dizziness. Objectively: pallor of skin, language is as raspberry, at FGDS: atrophy gastritis, Phmetry: achilia. In blood test: E-2,3x10¹²/l, Hb-90 g/l, CI-1,2, macrotcytosis, Jolly's bodies, Cebot's rings. For this condition is characteristic all signs, except:
- A. Pallor of skin with lemon tint
- B. Ataxia
- C. Paresthesia
- D. Exhaustion
- E. Subicteric colour of white of the eyes
- 120. The sick K., 60 years old, appealed with complaints on increased crabbiness, feeling of "wadding" feet, numbness of tiptoes. Objectively: skin is pale, white of the eyes are subicteric, liver +2 sm, spleen +2 sm, moderately painful. In blood test: E-1,3x10¹²/l, Hb-58 g/l, CI-1,3, reticul-0,2%, blood sedimentation-30 mm/h., macrocytosis. What is needed to conduct for confirmation of diagnosis:
- A. Roentgenologic research of stomach
- B. Endoskopic research of stomach
- C. Sternal puncture
- D. Definition of osmotic resistance of erythrocytes
- E. Definition of iron of blood serum
- 121. The patient T., 20 years old, is hospitalized in clinic with complaints on pain in throat, bleeding from gums, increase of temperature to 38,5°C, osalgia.In blood test: E- 2,2x10¹²/l, Hb-60 g/l, L-16,0x10⁹/l, blast-50%, r/n-1%, s/n-12%, l-32%, m -5%, CI-0,8, T-76,0x10⁹/l, blood sedimentation-38 mm/h. Name the characteristic changes of blood at this condition:
- A. Anemia
- B. Leukotcytosis
- C. Reticulocytopenia

- D. Appearance of blastic cells
- E. All answers are true
- 122. The sick N., 54 years old, complains on weakness, palpitation at step, dyspnea. In blood test: E-1,8x10 12 /l; Hb-81g/l; CI-1,3; L-3,2x10 9 /l, macrocytosis, T-140,0x10 9 /l. General bilirubin-47,6 mkmol/l, mainly due to indirect. Doctor suspected B12 deficiency anemia. What disease can not result the increased loss of vitamin B12:
- A. Intestinal vermins
- B. Dysbiosis
- C. Ulcer of duodenum
- D. Disease of liver
- E. Leukemia
- 123. At the patient C., 52, splenomegaly is found out without special subjective complaints. In blood test: Hb-132 g/l; L-52,0x10 9 /l, e-5%, bas-2%, myeloblast-6%, promyel-5%, myel-6%, youn-8%, r/n-4%, s/n-4 %, l-12%, m-6%; blood sedimentation- 19 mm/h. It is expedient to use at treatment:
- A. Scheme "5+2"
- B. Cyclophosphan
- C. Hydrxiourea (hydrea)
- D. Prednizolon
- E. Treatment is not necessary
- The sick M., 40 years old, entered clinic with complaints on nasal and uterine bleeding, presence of bruises on skin. In the anamnesis: viral infection 2 weeks ago. On the skin of trunk and extremities there are bruises. In blood test: E-2,6x10¹²/l, Hb-80 g/l, thrombocytes-25,0x10⁹/l, L-6,8x10⁹/l, leukocytar formula is without changes. Blood sedimentation-30 mm/h. Bleeding time by Dyuke is 13 minutes. Appoint treatment:
- A. Preparations of vitamin K
- B. Transfusion of packet red cells
- C. Transplantation of bone marrow
- D. Antihemophyl immunoglobulin

E. Glucocorticoids

- 125. The girl, 18 years old, complains on acute pain in throat, increase of temperature of body to $40,0^{\circ}$ C. In the anamnesis: acute respiratory infection a week ago, treated with analgin and biseptol; condition was improved briefly. At examination: there are necrotic ulcers on mucous of mouth cavity. In blood test: E-3,8x10¹²/l, Hb-115 g/l, T-100,0x10⁹/l, L-0,8x10⁹/l, e-1%, r/n-1%, s/n-4%, l-77%, m-15%, plasma cells-2%. Blood sedimentation-46 mm/h. What treatment must be appointed:
- A. Antiseptic preparations locally
- B. Cytostatic preparations
- C. Antihistaminic preparations
- D. Stimulators of erythrocytopoiesis
- E. Glucocorticoids
- 126. The 49 years old man marks weakness, palpitation, icterus. Objectively: t of body 37.8 °C, skin and white of the eyes are subicteric, liver +2 sm, spleen +3 sm. In blood test: E- 3.0×10^{12} /l, Hb-90 g/l, CI-0,9, reticul-18%, maximal osmotic resistance of erythrocytes -0,48, general bilirubin-76 mkmol/l, indirect-63 mkmol/l. What additional research it is expedient to appoint for clarification of diagnosis:
- A. Activity of glyco-6-phosphat-dehydrogenase
- B. Definition of transaminases
- C. Bilious pigments of urine
- D. The Coombs` test
- E. Markers of viruses of hepatitis
- 127. The patient B., 48 years old, complains on weakness, palpitation and dyspnea at the insignificant physical load. There are swelling of stomach, diarrhea, especially after milk products after toxicoinfection. Objectively: skin and mucouses are pale, at palpation painful thick intestine. In blood test: E-3,1x10 12 /l, Hb-70 g/l, CI-0,65, L-4,0x10 9 /l, blood sedimentation-22 mm/h. What additional research it is expedient to conduct:
- A. Puncture of bone marrow
- B. Definition of vitamin B12 in blood

- C. Coprogram
- D. The Coombs` test
- E. Definition of iron of blood serum
- 128. The sick M., 65 years old, who is observed at dermatologist concerning obtrusive itch of skin for a few years, lately markes headache. In the anamnesis: smoking during 40 years. Objectively: redder-cyanotic colour of face, AP-170/100, dry rales in lungs, splenomegaly. In blood test: E-7,9x10¹²/l, Hb-210 g/l, L-12,8x10⁹/l, T-364,0x10⁹/l, blood sedimentation-1 mm/h., circulating blood volume-8,1 l. What treatment can be appointed:
- A. Exsanguination
- B. Leukeran
- C. Roentgenotherapy of spleen
- D. Roentgenotherapy of bone marrow
- E. Hydrea
- 129. The sick B., 53 years old, complains on increase of temperature of body, pain in joints, in stomach. At examination: skin and white of the eyes are pale, icteric, liver +3 sm, the pole of spleen is palpated. In blood test: Hb-72 g/l, CI-0,85, reticul-5%; blood sedimentation-26 mm/h, bilirubin-52 mkmol/l, indirect-48 mkmol/l; gamma-globulin- 26%; ALT-0,7мкмоль/л; the direct Coombs` test is positive. Your previous diagnosis:
- A. Autoimmune hemolytic anemia
- B. Chronic hepatitis
- C. Hereditary microspherocytic anemia
- D. Gilber's syndrome
- E. B12 deficiency anemia
- 130. At the patient Z., 67 years old, with hepatolienal syndrome during 2 years there are increased peripheral lymphatic knots, which are soft, unconnected with adjoining fabrics at palpation. In blood test: $L-120,0x10^9/l$, r/n-1%, s/n-9%, l-87%, m-3%. Blood sedimentation-40 mm/h.In what age this disease is more frequen:
- A. At young
- B. At mature.
- C. At children

- D. At teenagers
- E. At elderly
- 131. The sick D., 28 years old, after supercooling noticed fever, pain in muscles and upper half of stomach. Moderate icterus, dark feces and urine appeared in a day. Objectively: skin, white of the eyes, mucouses are icteric, hepatosplenomegaly. In blood test: E-2,8x10¹²/l, Hb-80 g/l, CI-0,8, T-230,0x10⁹/l, L-9,5x10⁹/l, reticul-7%, blood sedimentation-20 mm/h. Biochemical blood test: general bilirubin-67,0 mkmol/l, indirect-58,3 mkmol/l, direct-8,7 mkmol/l. The Coombs` test is positive. What disease can be suspected at the sick:
- A. Gilber's syndrome
- B. Acute hepatitis
- C. Hemolytic anemia
- D. Rotor syndrome
- E. Cholecystolithiasis
- 132. The man, 42 years old, complains on headache, increase of arterial pressure to 200/120, itch of skin after soul. In blood test: E-6,2x10¹²/l, Hb-200 g/l, T-650,0x10⁹/l, L-12,2x10⁹/l, e-7%, r/n-10%, s/n-64%, l-15%, m-4%, blood sedimentation-1 mm/h. What the itch of skin is linked with:
- A. Predominance of maintenance of granulocytes
- B. Allergic reaction
- C. Thrombocytosis
- D. Erythrocytosis
- E. All answers are true
- 133. The 20 years old youth has signs of hemolytic crisis. Similar crises were observed in 5 and 9 years old. In the anamnesis: operation concerning "wolfish fall" in age of 2 years. Objectively: yellowness of skin and white of the eyes, spleen is increased. In blood test: $E-2.3\times10^{12}/l$, Hb-68 g/l, blood sedimentation-38 mm/h, microspherocytosis, decline of osmotic resistance of erythrocytes. What method of treatment is the most effective in this case:
- A. Plasmapheresis
- B. Splenectomy

- C. Glucocortikoids
- D. Cytostatic preparations
- E. Hemosorbtion
- 134. The woman, 68 years old, hospitalized with complaints on pain in ribs, general weakness. Objectively: skin is pale; pain is marked at pressure on thorax. In blood test: $E-2,6x10^{12}/l$, Hb-78 g/l, L-6,1x10⁹/l, blood sedimentation-84 mm/h; glucose of blood-5,2 mmol/l; general protein-100 g/l. In analysis of urine: specific weight-1015, protein-4,0 g/l, E-1-3; L-2-3. What research is contra-indicated:
- A. Sternal puncture
- B. Excretory urography
- C. Survey urogram
- D. Biopsy of kidney
- E. US investigation of kidneys
- 135. The sick L., 29 years old, appealed to internist concerning growing weakness, pain in bones, fever. At examination: pallor of skin, there are petechial-macular rash on the skin of trunk and extremities. Subaxillary lymphatic knots are increased to 1,5x2,0 sm, soft, painless.In blood test: E-3,1x10¹²/l; Hb-80 g/l, CI-0,8, L-2,2x10⁹/l; blast-36%, r/n- 3%, s/n-16%, 1-41%, m-4%, Thr-40,0x10⁹/l; blood sedimentation-44 mm/h. Aleukemic leukemia is:
- A. Appearance of blastic cells in blood
- B. Absence of blastic cells in blood
- C. Number of blastic cells is increased in myelogram
- D. Appearance of reticulocytes in blood
- E. Decreaese of leukocytes in blood
- 136. The 40 years old woman, who suffers on menorrhagia, complains on twinkling of "spots" before eyes, dizziness, fragility of nails, hair fall. At examination: pallor of skin and mucouses, pulse-100; systolic noise is above all auscultative points. In blood: E- 3.3×10^{12} /l, Hb-90 g/l, CI-0,7, L-9,8×10⁹/l, hypochromia of erythrocytes, anisocytosis. What reason of origin of systolic noise:
- A. Disturbance of synchronousness of work of valvular apparatus
- B. Defeat of myocardium of hypoxic character

- C.Acceleration of intracardiac blood stream in conditions of decrease of blood viscidity
- D. Acceleration of intracardiac blood stream in conditions of increase blood viscidity
- E. Increase of minute volume of blood
- 137. The Sick G., 50 years old, complains on weakness, dizziness.At examination: skin and mucouses are subicteric, liver +4 sm, dense, painful, spleen +8 sm, dense. In blood test: E-2,4x10¹²/l, Hb-84 g/l, reticul-25%, L-7,0x10⁹/l, e-3%, r/n-6%, s/n-62%, l-22%, m-6%; blood sedimentation-30 mm/h; osmotic resistance of erythrocytes is reduced, maintenance of bilirubin of blood is increased due to indirect, reaction on urobilin is acutely positive, the Coombs` test is positive. What diagnosis is the most credible:
- A. Minkovsky Shoffar`s disease
- B. Rotor disease
- C. Night hemoglobinuria
- D. Autoimmune hemolytic anemia
- E. Gilber's disease
- 138. The patient D., 63 years old, complains on feeling of overfill in epigastrium, nausea, belch after meal, dyspnea. In blood test: E-2,0x10¹²/l, Hb-100 g/l, hyperchromia, macrocytosis.At FGDS there are signs of gastritis, at Ph-metry achilia. What is the most credible reason of development of anemic syndrome:
- A. Production of antibodies to gastromucoprotein
- B. Disturbance of synthesis of hemoglobin
- C. Disturbance of synthesis of erythropoietin
- D. Disturbance of suction of iron
- E. Increased charges of iron
- 139. The 30 years old woman entered clinic with complaints on nasal and uterine bleeding. In the anamnesis: viral infection 2 weeks ago. At examination: on the skin of trunk and extremities bruises. In blood test: $E-2.8\times10^{12}/l$, Hb-90 g/l, thrombocyt $25.0\times10^{9}/l$, L-8.8×10⁹/l, leukocytar formula without changes. Blood sedimentation-30 mm/h, bleeding time by Dyuke is 13 minutes. The sick must appoint:
- A. Trasfusion of thromboconcentrate
- B. Transfusion of packet red cells

- C. Transplantation of bone marrow
- D. Antihemophyl immunoglobulin
- E. Glucocorticoids
- 140. The 39 years old man marks weakness, palpitation. Objectively: t of body 38,8°C, skin and white of the eyes are icteric, liver +3 sm, spleen +5 sm. In blood test:
- E- 3,2x10¹²/l, Hb-90 g/l, CI-0,9, reticul-8%, maximal osmotic resistance of erythrocytes 0,48, general bilirubin-76 mkmol/l, indirect-63 mkmol/l. What additional research is expedient for clarification of diagnosis:
- A. Activity of glyco-6-phosphat-dehydrogenase
- B. Definition of transaminases
- C. Bilious pigments of urine
- D. The Coombs` test.
- E. Markers of viruses of hepatitis
- 141. At the sick O., 23 years old, who suffers on hemophilia A, extraction of tooth is planned. Introduction of what medical preparation with the purpose of providing hemostasis is necessary to conduct before and after operation?
- A. Cryoprecipitate
- B. Fresh frozen plasma
- C. Aminocapron acid
- D. Vikasol
- E. Ascorbic acid
- 142. The sick N., 22 years old, reduced feed, vegetarian, appealed to policlinic with complaints on perversion of smell, taste, angular cheilitis. At examination: expressed bright blue color of white of the eyes. After laboratory research iron deficiency anemia was diagnosed. What clinical syndrome takes advantage at the patient:
- A. Sideropenic
- B. Anemic
- C. Heart failure
- D. Metabolic intoxication
- E. Myelodysplastic
- 143. The patient I., 52 years old, appealed to district doctor with complaints on

weakness, cough with mucous expectoration, weight loss (10 kg during 4 months). Objectively: t of body - 37,5°C, increased supraclavicular and neck lymphatic knots are palpated from both sides, there are harsh breathing and dry rales above lungs, pulse-112, AP–110/70; In blood - lymphocytosis (80%). Choose subsequent tactic of district doctor:

- A. To direct the patient to hematologist
- B. To appoint antiinflammatory therapy
- C. To direct the patient to oncologist
- D. To conduct subsequent ambulatory inspection of patient (R graphy of organs of pectoral cavity, computed tomography, biochemical blood tests)
- E. To appoint desintoxitcative and symptomatic therapy
- 144. At the patient, suffering on ischemic heart disease, who used aspirin, weakness, dizziness, more frequent pain in heart appeared. At examination: pale, AP-100/60, heart rate-100, E-2,6x10 12 /l, Hb-100 g/l, CI-0,8; L-5,8x10 9 /l, T-288x10 9 /l, iron of blood serum-11,0 mkmol/l. What disease stipulates unstable stenocardia:
- A. Posthemorrhagic anemia
- B. Hypertonic illness
- C. Myocarditis
- D. B12 deficiency anemia
- E. Hemolytic anemia
- 145. The sick K., 50 years old, complains on decline of appetite, nightly perspiration, discomfort in stomach, weight loss. Objectively: pallor of skin, hepatosplenomegaly. In blood test there are anemia, leukocytosis with change of leukocytar formula to the left, bazophil eozinophil association. What result of research confirms the previous diagnosis:
- A. Presence of the Philadelphian chromosome
- B. Botkin Gumpercht shadows
- C. Increase level of alkaline phosphatase
- D. Decrease of cyancobalamin
- E. Total hyperplasia of bone marrow with megacariocytosis
- 146. The patient C., 28 years old, complains on undulating fever, perspiration. Objectively: pallor of skin, lymphatic knots are mobile, densely elastic, by the diameter

of 1-2 sm, not painful, not connected with skin. In blood: E-3,0x10 12 /l, Hb-100 g/l, L-14x10 9 /l, change of formula to the left, T-280x10 9 /l, blood sedimentation-37 mm/h. What method of research it follows to use for confirmation of diagnosis:

- A. Biopsy of lymphatic knot
- B. Sternal puncture
- C. Biopsy of muscles
- D. Sciagraphy of organs of thorax
- E. Lumbar puncture
- 147. The sick, 40 years old, hospitalized in gynaecological separation with uterine bleeding. Objectively: skin is pale with superficial hemorrhages in the area of trunk and extremities. Blood test: E-2,6•10 12 /l, Hb-80 g/l, L-4,2•10 9 /l, e-3%, r/n-4%, s/n-58%; 1-30%, m-5%, thromb-50x10 9 /l. Define the type of hemorrhage at this sick:
- A. Petechia-macular
- B. Hematomal
- C. Mixed
- D. Vasculit-purpural
- E. Angiomatosal
- 148. The sick T., 28 years old, complains on weakness, dizziness, yellowness of skin. Objectively: yellowness of skin, liver +3 sm, lower pole of spleen is palpated. In blood test: anemia, reticulocytosis, leukocytosis with change of leukocytar formula to promyelocytes. Autoimmune hemolytic anemia is suspected. Choose correct, in relation to the indicated disease, affirmation:
- A. Diagnosis is confirmed by the positive Coombs' test
- B. Growth of level of direct bilirubin is characteristic
- S. Changes of structure of erythrocytar membrane lie in basis of disease
- D. Hypoplasia of red link in trepanobioptate
- E. Increase of level of alkaline phosphatase
- 149. At the sick O., 19 years old, on the 7 day of treatment concerning acute rheumatic fever, yellowness of skin appeared, level of hemoglobin went down, level of reticulocytes and indirect bilirubin rose. The Coombs` test gave positive result. What medication is more credible entail appearance of medicine-induced hemolytic anemia:

- A. Natrii benzilpenicilini
- B. Diclophenac
- S. Chlorochin
- D. Prednizolon E. Ascorbin acid
- 150. The patient G., 18 years old, complains on periodic appearance of icteric colouring of skin, heavy feeling in the left subcostum. Objectively: lymphatic knots are not increased, spleen +3 sm. Blood test: E-2,7x10¹²/l, Hb-84 g/l, CI-0,96, reticul-18%, microspherocytosis. Indirect bilirubin–38 mkmol/l. Your diagnosis:
- A. Minkovsky Shoffar`s anemia
- B. Autoimmune hemolytic anemia
- C. Sideroachrestic anemia
- D. Hypoplastic anemia
- E. B12 deficiency anemia
- 151. The sick G., 42 years old, suffers on menorrhagia during three years. There is a exacerbation of chronic pancreatitis as pain in the left subcostum, diarrhea during last two weeks. In blood test there is moderate hypochromic anemia, iron of blood serum 7,2 mkmol/l. What is necessary for correction of anemia:
- A. Preparations of iron parenteral
- B. Preparations of iron per os
- C. Transfusion of packet red cells
- D. Anabolic hormones
- E. Vitamins of group B
- 152. The patient A., 62 years old, treats oneself at dermatologist during last two years, concerning itch of skin, which increases after taking a bath. At examination: face of red color, liver is increased (+4 sm), spleen (+5 sm). Blood test: E-7,1x10 12 /l, Hb-210 g/l, L-12,5x10 9 /l, change of formula to the left, thromb-525x10 9 /l, blood sedimentation 1 mm/h. Hematocrit-72%. Your diagnosis:
- A. Cirrhosis of liver
- B. Acute erythromyelosis
- C. Chronic myeloleukemia
- D. Subleukemoid myelosis

E. Erythremia

- 153. The patient K., 66 years old, delivered in hospital in unconscious condition. Last half a year complains on weakness, stuffiness, dizziness. At examination: skin of lemon colour, tachycardia, systolic noise above all auscultative points, AP-80/60, liver is increased (+3 sm), spleen is palpated. Blood test: E-1,0x10¹²/l, Hb-45 g/l, blood sedimentation-50 mm/h, glucose of blood-4,2 mmol/l, creatinine of blood-105 mkmol/l, bilirubin of blood-32,6 mkmol/l due to indirect, negative wave T in V1-V4. Your previous diagnosis:
- A. Diabetic coma
- B. Hepatic coma
- C. Uremic coma
- D. Anemic coma
- E. Infarct of myocardium, cardiogenic shock.
- 154. 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 64 109/l, lymphocytes 72%. What method of study should be used to specify the diagnosis?
- A. Myelogram
- B. Lymphography
- C. Lymphoscintigraphy
- D. X-rays
- E. Thermography
- 155. 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 1012/l, Hb 60 g/l, CI 0,9, WBCs -9,4 109/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 milli-mole/l. What complication occurred in the patient?
- A. Agranulocytosis
- B. Paroxysmal nocturnal hemoglobinuria
- C. Acquired hemolytic anemia

- D. Toxic hepatitis
- E. Cholelithiasis
- 156. A 35-year-old patient has been in the intensive care unit for acute renal failure due to crush for 4 days. Objectively: the patient is inadequate. Breathing rate -32/min. Over the last 3 hours individual moist rales can be auscultated in lungs. ECG shows high T waves, right ventricular extrasystoles. CVP 159 mm Hg. In blood: the residual nitrogen 62 mi-llimole/l, K+- 7,1 millimole/l, Cl-- 78 mi-llimole/l, Na+- 120 millimole/l, Ht 0,32, Hb 100 g/l, blood creatinine 0,9 milli-mole/l. The most appropriate method of treatment would be:
- A. Plasma sorption
- B. Hemodialysis
- C. Hemosorption
- D. Plasma filtration
- E. Ultrafiltration
- 157. 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 1012/l, Hb- 84 g/l, leukocytes 58 109/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?
- A. Chronic myeloleukemia
- B. Acute lymphatic leukemia
- C. Acute myeloleukemia
- D. Lymphogranulomatosis
- E. Chronic lymphatic leukemia
- 158. A 43-year-old male patient undergoing treatment for peptic ulcer complains of weakness, dizziness, coffee-ground vomiting, melena. After administration of haemostatics the patient's condition has not improved, fresh blood has shown up in the vomit, skin bruises of different sizes have appeared. In blood: thrombocytes -50 109/l, Lee-White clotting time 35 minutes, APTT 80 seconds. In this case it is most rational to administer the following preparation:

- A. Vikasol
- B. Fresh frozen plasma
- C. Heparin
- D. Fibrinogen
- E. Rheopolyglucinum
- 159. 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 1012/l, Hb- 62 g/l, colour index 0,78, reticulocytes 0,50/oo, ESR- 18 mm/h. Leukogram exhibits no pathology. What is a provisional diagnosis?
- A. Nutritional iron deficiency anaemia
- B. Chronic hepatitis
- C. B12-deficiency anaemia
- D. Acquired haemolytic anaemia
- E. Congenital haemolytic anaemia
- 160. 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 1012/l, Hb- 100 g/l, colour index 0,88, thrombocytes 190 109/l, WBCs 7,5 109/l, eosinophils -8%, stab neutrophiles 2%, segmented neutrophiles 67%, lymphocytes 23%, ESR 22 mm/h. What study is required to verify the cause of lymphadenopathy?
- A. Open biopsy of lymph nodes
- B. Ultrasound examination of the abdomen
- C. Mediastinal tomography
- D. Puncture biopsy of lymph nodes
- E. Sternal puncture
- 161. 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 1012/l, platelets 30 109/l, ESR- 25 mm/h. What is the most effective measure for the treatment ofthrombocytopenia?

A. Iron preparations

- B. Hemotransfusion
- C. Cytostatics
- D. Splenectomy
- E. Vitamin B12
- 162. A 60 year-old female has been suffering weakness, dizziness, fatigue over the last year. Recently she has also developed dyspnea, paresthesia. Objectively: 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, RBCs -1, 7- 1012/l, colour index 1,2, macrocytes. Administer the patient a pathogenetically justified drug:
- A. Vitamin B6
- B. Ascorbic acid
- C. Iron preparations
- D. Vitamin B12
- E. Vitamin B1
- 163. 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?
- A. Anaemic
- B. Haemologic
- C. Sideropenic
- D. Haemolytic
- E. Myelodysplastic
- 164. 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 -2,0-1012/l, Hb -100 g/l. Tests revealed parietalcell antibodies. What is the most likely reason for the development of anemia in this patient?

A. Disruption of hemoglobin synthesis

- B. Production of antibodies to intrinsic factor
- C. Disruption of erythropoietin synthesis
- D. Impaired iron absorption
- E. Increased loss of iron
- 165. On the second day of the disease a 22-year-old male patient complains of high-grade fever, headache in the region of forehead and superciliary arches, and during eye movement; aching muscles and joints. Objectively: body temperature is 39oC. Face is hyperemic, sclerae are injected. The mucous membrane of the soft palate and posterior pharyngeal wall is bright hyperemic and has petechial hemorrhages. What changes in the hemogram are typical for this disease?
- A. Leukocytosis
- B. Neutrocytosis
- C. Anemia
- D. Accelerated ESR
- E. Leukopenia
- 166. 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 1012/l, Hb- 80 g/l, WBC- 3 109/l, eosinophils 4%, basophils 5%, blasts -4segmented neutrophils -17%, lymphocytes -29%, myelocytes 25%, promyelocytes -12%, monocytes 2%, platelets 80 109/l, ESR -57 mm/h. What test should be performed to verify the diagnosis?
- A. Sternal puncture
- B. Trephine biopsy
- C. Lymph node biopsy
- D. Lumbar puncture
- E. Chest X-ray
- 167. A 49-year-old male patient consulted a doctor about difficult swallowing, voice hoarseness, weight loss. These symptoms have been gradually progressing for the last 3 months. Objectively: the patient is exhausted, supraclavicular lymph nodes are enlarged. Esophagoscopy revealed no esophageal pathology. Which of the following studies is most appropriate in this case?

- A. Computed tomography of chest and mediastinum
- B. X-ray of lungs
- C. Multiplanar imaging of esophagus
- D. Radioisotope investigation of chest
- E. Ultrasound investigation of mediastinum
- 168. 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 1012/l, Hb-122 g/l, lymphocytes 7,4 109/l, platelets 183 109/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?
- A. Werlhof's disease
- B. Rheumatoid arthritis
- C. Thrombocytopathy
- D. Hemophilia, hemarthrosis
- E. Hemorrhagic vasculitis, articular form
- 169. 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, split-end hair, brittle nails. Blood test results: RBC-2, 7 1012/l, Hb- 75 g/l, color index 0,7, WBC-3,2 109/l, platelets 210 109/l, ESR- 30 mm/h. Blood serum iron is 6 mmol/l. What is the most likely diagnosis?
- A. Acute leukemia
- B. B12-deficiency anemia
- C. Iron-deficiency anemia
- D. Vegetative-vascular dystonia
- E. Aplastic anemia
- 170. 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 38,9oC, 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 1012/l; WBC-3, 5 109/l; blasts

- 52%; eosinophils 2%; stab neutrophils 3%; segmented neutrophils 19%; lymphocytes 13%; monocytes 1%; platelets 35 109/l. ESR 47 mm/h. What test is required to specify the diagnosis?
- A. Protein electrophoresis
- B. Immunophenotyping
- C. Lymph node biopsy
- D. Determination of anti-platelet antibody titer
- E. Cytogenetic study
- 171. 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 lemonyellow 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 1012/l, colour index -1,2, WBCs 3,8109/l, thrombocytes 180 109/l, eosinophiles 0%, stab neutrophiles 1%, segmented neutrophiles 58%, lymphocytes -38% monocytes 3%, RBC macrocytosis. ESR 28 mm/h. What diagnosis are these presentations typical for?
- A. Iron deficiency anemia
- B. Aplastic anemia
- C. Acute erythromyelosis
- D. B12-deficiency anemia
- E. Chronic adrenal failure
- 172. 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 1012/l, Hb- 70 g/l, colour index 0,75, platelets -140 109/l, WBC- 6,2 109/l. What is the most likely diagnosis?
- A. Acute leukemia
- B. Acute posthemorrhagic anemia
- C. B12-deficiency anemia
- D. Werlhof's disease
- E. Chronic posthemorrhagic anemia

- 173. 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 1012/l, Hb-87 g/l, thrombocytes 45 109/l, WBCs -13 109/l, blasts 87%, stab neutrophiles -1%, segmented neutrophiles -7%, lymphocytes -5%, ESR 55 mm/h. What is the most likely diagnosis?
- A. Acute leukemia
- B. Erythremia
- C. Chronic lymphocytic leukemia
- D. Chronic myeloid leukemia
- E. Multiple myeloma
- 174. 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?
- A. Lymphogranulomatosis
- B. Chronic lymphadenitis
- C. Lymphosarcoma
- D. Burkitt's lymphoma
- E. Cancer metastases
- 175. 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 1012/l. What is the cause for the patient's general condition?
- A. Posthemorrhagic anemia
- B. Aplastic anemia
- C. Wound infection
- D. Concomitant disease
- E. Acute thrombophlebitis
- 176. 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: iron-deficiency anemia. What clinical syndrome is expressed primarily?

- A. Anemic
- B. Hemorrhagic
- C. Hemolytic
- D. Sideropenic
- E. Myelodysplasic
- 177. 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, poikilocytosis, serum iron 10 mcmol/l. What diagnosis is most likely?
- A. Aplastic anemia
- B. Hypoplastic anemia
- C. Iron-deficiency anemia
- D. B12-deficient anemia
- E. Autoimmune hemolytic anemia
- 178. 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 1012/l, Hb- 100 g/l, blood colour index 0,88, platelets 190 109/l, leucocytes 7, 5 109/l, eosinophils 8%, band neutrophils 2%, segmented neutrophils -67%, lymphocytes 23%, ESR- 22 mm/hour. What test must be prescribed to verify the cause of lymphadenopathy?
- A. Puncture biopsy of lymph nodes
- B. Open biopsy of lymph nodes
- C. Ultrasonography of abdominal cavity
- D. Mediastinum tomography
- E. Sternal puncture
- 179. 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?

- A. H.pylori persistence
- B. Alimentary factor
- C. Chemical factor
- D. Producing antibodies to parietal cells
- E. Gastropathic effect
- 180. A 29-year-old female patient complains of dyspnea, heaviness and chest pain on the right, body temperature rise up to 37,2oC. The disease is associated with a chest trauma received 4 days ago. Objectively: skin is pale and moist. Ps- 90/min., regular. Palpation reveals a dull sound on the right, auscultation reveals significantly weakened vesicular breathing. In blood: RbCs- 2,8 1012/l, colour index -0,9, Hb- 100 g/l, WBCs-8,0 109/l, ESR- 17 mm/hour. What results of diagnostic puncture of the pleural cavity can be expected?
- A. Chylous liquid
- B. Exudate
- C. Transudate
- D. Purulent punctate
- E. Haemorrhagic punctate
- 181. 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. Heart rate 100/min., BP- 110/70 mm Hg. There are no changes of internal organs. Blood test results: RBC-3,0 1012/l, Hb- 92 g/l, colour index 0,9, anisocytosis, poikilocytosis, WBC 10 109/l, eosinophils 2%, stab neutrophils 12%, segmented neutrophils 68%, lymphocytes 11%, monocytes 7%, ESR- 12 mm/hour. What index should be determined additionally by a laboratory to make a diagnosis?
- A. Platelets
- B. Reticulocytes
- C. Clotting time
- D. Osmotic resistance of erythrocytes
- E. Fibrinogen

- 182. 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 1012/l, reticulocytes 16%, platelets 30 109/l, ESR- 22 mm/hour. What approach would be most efficient for treatment of this pathology?
- A. Splenectomy
- B. Dicynone (Etamsylate)
- C. Platelet concentrate transfusion
- D. Cytostatics
- E. Group B vitamins
- 183. A 58-year-old woman undergoing chemotherapy for her oncologic disorder has developed sore throat. Examination revealed necrotic areas on the mucosa of the pharynx and tonsils. Many of her teeth are afflicted with caries. In blood: neutrophilic granulocytes are practically absent against the background of leukopenia. Leukocytes are represented mainly by lymphocytes and monocytes. What disease can be suspected in the given case?
- A. Agranulocyte tonsillitis
- B. Lacunar tonsillitis
- C. Pseudomembranous (Vincent's) tonsillitis
- D. Syphilitic tonsillitis
- E. Diphtheria
- 184. 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• 1012/l, blood color index -1,2, macrocytes. What drug can be prescribed on pathogenetic grounds?
- A. Vitamin B6
- B. Ascorbic acid
- C. Vitamin B12
- D. Iron preparations
- E. Vitamin B1

- 185. 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 1012/l, Hb- 88 g/l, color index 0,7, leukocytes 4,6 109/l, platelets 350 109/l, ESR- 21 mm/hour, anisocytosis, poikilocythemia, serum iron 9,5 mcmol/l. What treatment tactics would you choose?
- A. Concentrated red cells transfusion
- B. Intramuscular introduction of 500 mkg of cyanocobalamin
- C. Corticosteroids, cytostatics
- D. Iron preparations, balanced diet
- E. Ascorbic acid, calcium chloride
- 186. A 60-year-old woman started feeling weakness, vertigo, rapid fatigability during the last year. Recently she has developed dyspnea and paresthesia observed. Objectively: skin and mucous membranes are pale and icteric. Lingual papillae are smoothed out. Liver and spleen are at the edge of costal arch. Blood test: Hb- 70 g/L, erythrocytes 1.7 1012/L, blood color index 1.2, macrocytes. What drug can be prescribed on pathogenetic grounds?
- A. Iron preparations
- B. Vitamin B6
- C. Ascorbic acid
- D. Vitamin B12
- E. Vitamin B1
- 187. During hemotransfusion the patient developed nausea, tremor, lumbar and retrosternal pain. On examination the skin is hyperemic, later developed pallor; the patient presents with hyperhidrosis, labored respiration, pulse is 110/min., BP is 70/40 mm Hg. Urine is black colored. What complication developed in the patient?
- C. Anaphylactic shock
- B. Acute renal failure
- C. Pulmonary embolism
- D. Posttransfusion shock

E. Hypotonic crisis

188. 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 A. Objectively: heart rate - 102/min., BP- 100/60 mm Hg. Complete blood count: erythrocytes - 3, 2 · 1012/l, Hb- 98 g/l, color index - 0,92, leukocytes - 7, 4 109/l, platelets - 240 109/l, ESR- 11 mm/hour. What measure would most effectively decrease hemorrhaging in this case?

- A. Cryoprecipitate
- B. Aminocapronic acid
- C. Native plasma
- D. Direct transfusion of donor blood
- E. Platelet concentrate transfusion

189. A 35-year-old man complains of rapidly incresing 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 1012/L, Íb- 100 g/L, color index - 0.95. What type of anemia is the most likely present in this case?

- A. Hemolytic anemia
- B. Sideroblastic anemia
- C. Chronic iron-deficiency anemia
- D. Posthemorrhagic anemia
- E. Hypoplastic anemia

190. 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 1012/L, Hb- 88 g/L, leukocytes - 86 109/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?

A. Chronic lymphatic leukemia

- B. Lymphocytic leukemoid reaction
- C. Acute leukemia
- D. Chronic myeloleukemia
- E. Lymphogranulomatosis
- 191. 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 Chornobyl 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 1012/L, Hb- 100 g/L, leukocytes 46 109/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?
- A. Hemolytic anemia
- B. Hepatic cirrhosis
- D. Acute leukemia
- A. Chronic myeloleukemia
- E. Chronic lymphatic leukemia
- 192. 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 1012/L, Íb- 56 g/L, color index 1.4, macrocytes, leukocytes 2, 5 109/L, eosinophils 1%, juvenile 1%, metamyelocytes 1%, band neutrophils 8%, segmented neutrophils 47%, lymphocytes 38%, monocytes 4%, reticulocytes 0.1%, platelets 100 109/L, ESR- 30 mm/hour, indirect bilirubin 26 mmol/L. What changes can be expected in the bone marrow puncture material?
- A. Increased number of sideroblasts
- B. Prevalence of megaloblasts
- C. Erythroid hyperplasia
- D. Presence of blast cells
- E. Prevalence of lymphoid tissue

- 193. A 45-year-old woman is registered for regular check-ups due to Werlhof disease (immune thrombocytopenia). Complete blood count: Íb- 100 g/L, erythrocytes 2.8 1012/L, platelets 90.0 109/L, leukocytes 8.4 109/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?
- A. Administer thrombocytic mass, continue the treatment in the hematology unit
- B. Urgent hospitalization into the hematology unit
- C. Urgently start a hemostatic therapy, followed by a planned hospitalization into the hematology unit
- D. Urgent hospitalization into the general care unit
- C. Continue the supervision by the hospital hematologist
- 194. 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 1012/L, Hb- 122 g/L, leukocytes 7.4 109/L, platelets 183 109/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?
- A. Thrombocytopathy
- B. Werlhof disease (immune thrombocytopenia)
- C. Rheumatoid arthritis
- D. Hemophilia, hemarthrosis
- E. Hemorrhagic vasculitis (Henoch-Schonlein purpura), articular form
- 195. 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 1012/l, Hb- 100 g/l, leukocytes 14 109/l, eosinophils 6%, basophils 3%, band neutrophils 11%, segmented neutrophils 69%, lymphocytes 7, monocytes 4%, platelets 280 109 /l, ESR- 37 mm/hour. What method should be applied to verify the diagnosis?

- A. Muscle biopsy
- B. Sternal puncture
- C. Lymph node biopsy
- D. Chest X-ray
- E. Lumbar puncture
- 196. 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 1012 /l, Íb- 92 g/l, color index 0,9, anisocytosis, poikilocytosis, WBC- 10 109/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?
- A. Clotting time
- B. Reticulocytes
- C. Platelets
- D. Osmotic resistance of erythrocytes
- E. Fibrinogen
- 197. 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 20 109/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?
- A. Disseminated intravascular coagulation
- B. Hemophilia
- C. Rendu-Osler-Weber disease (Hereditary hemorrhagic telangiectasia)
- D. Idiopathic thrombocytopenic purpura
- E. Acute vascular purpura
- 198. 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 1012/L, Hb- 100 g/L, blood colour index 0.88, platelets 190

109 /L, leucocytes - 7.5 109 /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?

- A. Open biopsy of the lymph nodes
- B. Abdominal US
- C. Mediastinum tomography
- D. Puncture biopsy of the lymph nodes
- E. Sternal puncture

199. 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?

- A. Increased number of reticulocytes
- B. Increased hemoglobin level
- C. Megaloblastic hematopoiesis
- D. Normoblastic hematopoiesis
- E. Increased erythrocyte number

200. A 37-year-old woman complains of headaches, nausea, vomiting, spasms. The onset of the disease occurred the day before due to her overexposure to cold. Objectively: fever up to 40oC; somnolence; rigid neck; Kernig's symptom is positive on the both sides; general hyperesthesia. Blood test: leucocytosis, increased ESR. Cerebrospinal fluid is turbid, yellow-tinted. What changes of the cerebrospinal fluid are most likely?

- A. Xanthochromia in the cerebrospinal fluid
- B. Lymphocytic pleocytosis
- C. Blood in the cerebrospinal fluid
- D. Neutrophilic pleocytosis
- E. Albuminocytological dissociation

Standards of true answers

			Standards	of true answers	3		
№ of	True	№ of	True	№ of	True	№ of	True
task	answer	task	answer	task	answer	task	answer
1	A	51	Е	101	В	151	A
2	Е	52	С	102	В	152	Е
3	Е	53	A	103	Е	153	D
4	С	54	С	104	С	154	A
5	D	55	Е	105	С	155	С
6	D	56	Е	106	D	156	В
7	С	57	C	107	В	157	Е
8	С	58	A	108	Е	158	В
9	В	59	В	109	D	159	A
10	D	60	A	110	A	160	A
11	В	61	D	111	C	161	D
12	A	62	C	112	D	162	D
13	D	63	В	113	C	163	C
14	A	64	A	114	В	164	В
15	В	65	A	115	A	165	Е
16	A	66	C	116	Е	166	A
17	A	67	В	117	A	167	A
18	С	68	C	118	C	168	D
19	В	69	A	119	D	169	C
20	В	70	C	120	C	170	В
21	A	71	В	121	E	171	D
22	В	72	E	122	C	172	Е
23	A	73	A	123	C	173	A
24	A	74	C	124	Е	174	A
25	D	75	D	125	Е	175	A
26	В	76	В	126	D	176	D
27	С	77	A	127	Е	177	C
28	A	78	D	128	Е	178	В
29	D	79	D	129	A	179	D
30	A	80	Е	130	Е	180	Е
31	Е	81	В	131	C	181	A
32	С	82	D	132	A	182	A
33	D	83	A	133	В	183	A
34	D	84	C	134	В	184	C
35	С	85	D	135	Е	185	D
36	D	86	Е	136	С	186	D
37	С	87	A	137	D	187	D
38	В	88	Е	138	A	188	A
39	A	89	Е	139	Е	189	D
40	В	90	Е	140	D	190	A
41	D	91	С	141	A	191	D
42	В	92	Е	142	A	192	В
43	С	93	A	143	A	193	Е
44	В	94	В	144	A	194	D
45	В	95	A	145	A	195	C
46	В	96	D	146	A	196	C
47	С	97	E	147	С	197	D
48	С	98	В	148	A	198	A
49	С	99	В	149	С	199	A
50	D	100	A	150	A	200	D

Recommended literature

Basic

- 1. Kumar and Clark Clinical Medicine, 10th edition, 2020.
- 2. Harrison's Principles of Internal Medicine by Longo et al.: Volumes 1 and 2, 20th Edition, 2018.
- 3. Davidson's Principles and Practice of Medicine, 23d Edition. 2018. 1440 p.
- 4. Murray and Nadel's Textbook of Respiratory Medicine, 6th Edition, 2016
- 5. Williams Textbook of Endocrinology, 14th Edition, 2019
- 6. Williams Hematology, 9th edition 2016.
- 7. Vizir V.A, Berezin A.E. Comprehence cliniucal nephrology (Task force for stu-dents). Kiev: Morion. 2014. 1056 p.

Additional

- 8. USMLE Step 2 CK Lecture Notes 2017: Internal Medicine (Kaplan Test Prep). 2016. Published by Kaplan Medical. 474 pages.
- 9. Kidney Disease; Improving Global Outcomes (KDIGO) Blood Pressure Work Group. KDIGO clinical practice guideline for the management of blood pressure in chronic kidney disease. Kidney Int Suppl. 2012; 2(5):337-414
- 10. NKF-DOQI and K/DOQI clinical guidelines for Chronic Kidney Disease https://www.kidney.org/sites/default/files/docs/ckd_evaluation_classification_stratification.pdf
- 11. The KDIGO practice guideline on acute kidney injury in the individual patient (2012) http://www.kidney-international.org, http://nephrology.kiev.ua.