The presence of agranulocytosis was determined in the blood analysis of a liquidator of accident at Chernobyl atomic power station who had got 5 Gr dose of irradiation. What pathogenetic mechanism is the leading one in its appearance?

Inhibition of leucopoiesis

Increased penetration of granulocytes into tissues

Increase of leucocytes destruction

Impairment of going out of mature leukocytes from bone marrow

Development if autoimmune process

Neutropoenia is found out in a patient who has the manifestation of immunodeficiency. What disease may neutropoenia be determined in?

After profuse hemorrhage

Fuzarium fungus poisoning

Myeloleukemia

Insufficiency of sexual gland function

Septic process

Functional insufficiency of monocytes is accompanied by immunodeficiency. What BAS produced by monocytes stimulate specific response?

Interleukin-1

Interleukin-2

Lysocime

Fibronectin

Myeloperoxidase

Relative neutropenia with degenerative shift was revealed in the blood of a patient with TB during examination. What change of differential blood count corresponds to this state?

Decrease of the number of segmented forms and increase of band forms of neutrophils

Decrease of lymphocyte number

Increase of monocyte number

Increase of basophil number

Decrease of eosinophil number

Neutrophil leukocytosis was revealed in worker during examination. What pathologic condition may neutrophil leukocytosis result from?

Septic condition

Chronic loss of blood

Vital infection

Radiation sickness

Benzene poisoning

A patient aged 32 with massive hemorrhage due to car accident trauma was admitted to the hospital. Pulse - 100 beats per min, respiratory rate - 22 per 2 min, BP - 100/60 mmHg. What blood change will be the most characteristic in an hour after

hemorrhage?

Hypovolemia

Erythropoenia

Hypoproteinemia

Leucopenia

Erythrocyte hypochromia

The experiment was carried out on a rabbit. The increase of the number of erythrocytes and hemoglobin in the blood due to the stimulation of erythropoiesis by erythropoietin was determined 2 weeks later after the narrowing of renal artery. What increases the formation of erythropoietin?

Hypoxemia

Hypoosmia

Hypercapnia

Heperosmia

Hypovolemia

 B_{12} -folic deficiency anemia development in a patient after stomach resection. What color index is typical for this disease?

1.30

1.15

1.0

0.85

0.70

A victim of a car accident has lost much blood. What impairment of general blood volume takes place?

Oligocythemic hypovolemia Simple hypovolemia Polycythemic normovolemia Olygocythemic normovolemia Polycythemic hypovolemia

Posthemorrhage anemia has developed in a patient with periodical bleeding due to uterus fibromyoma. What type of chronic post hemorrhagic anemia takes place in this case?

Erythroblastic, hypochromic, hyporegenerative

Megaloblastic, hyperchromic, hyperregenerative

Megaloblastic, hypochromic, hyporegenerative

Erythroblastic, hyperchromic, hyporegenerative

Erythroblastic, hypochromic, hyperregenerative

A female patient with impairment cycle accompanied by prolonged bleeding the blood analysis was made which hypochromia, decrease of reticulocytes, microcytosis. What group does this anemia belong to according to pathogenesis?

Iron deficiency anemia

B₁₂-folic deficiency anemia

Hypoplastic anemia

Hemolytic anemia

Metaplastic anemia

Which of the below given hematological characteristics corresponds to chronic post-hemorrhagic anemia?

Hyporegenerative, hypochromic with megaloblasts types of bleeding

Hyporegenerative, hypochromic with erythroblasts types of bleeding

Hyperregenerative, hypochromic with erythroblasts type of bleeding

Regenerative, hypochromic with erythroblasts types of bleeding

Hyporegenerative, hyperchromic with megaloblasts types of bleeding

Hypochromic anemia was diagnosed in a patient on the 7th day after acute hemorrhage. What mechanism is the leading one in its development?

Increased penetration of immature erythrocytes from bone marrow

Increase of iron extraction from the organisms

Impairment of globin synthesis

Increased erythrocyte destruction in the spleen

Impairment of iron absorption in the intestine

A patiens aged 43 has stomatitis, glossitis, the tongue us crimson color, smooth. Blood analysis revealed: Hb 100 g/l;

erythrocytes 2.3x10¹⁹/l; color index 1.30. What is the patients state due to?

Vitamin B₁₂ deficiency

Erythrocytes hemolysis

Hypoplasia of red bone marrow

Impairment of porphyrin synthesis

Iron deficiency

After resection of small intestine a patient complained of increased fatiguability, infringement if taste, brittleness of nails, quick decay of dental enamel, and appearance of breathlessness in physical exertion. Which of the bellow given substances is source of impairments in the patients organisms?

Iron deficiency anemia

B₁₂-folic deficiency anemia

Hypocalcemia

Vitamin D deficiency

Hyponatriaemia

A women fell ill with purulent stomatitis. What index if complete blood count is characteristic for this disease?

Leukocytosis

Lymphocytosis

Thrombocytosis

Anemia

Monocytosis

Extraction of a tooth, in a patient with chronic lymphocytic leukemia, was complicated by prolonged bleeding. What may cause the hemorrhagic syndrome in this patient?

Thrombocytopenia

Anemia

Lymphocytosis

Eosinopenia Neutropenia

A 40-years-old patient, who was bitten by snake, was attempted to the hospital. What place does hemolysis occur at in this case?

In vessels

In hepatic cells

In the spleen

In the bone marrow

In renal parenchyma

What is the cause of intracellular hemolysis?

Genetic infringements of erythrocytes

Malaria

Action of hemolytic poison

Infection with hemolytic streptococcus

Transfusion of incompatible blood

What kind of disorders of total blood volume appears in case of absolute erythrocytosis?

Polycythemic hypervolemia

Oligocythemic hypervolemia

Oligocythemic hypovolemia

Simple hypervolemia

Simple hypovolemia

During the examination of adolescents that reside in mounting region increase in level of erythrocytes and hemoglobin in peripheral blood was found out. What is the reason for indicated erythrocytosis?

Exogenous hypoxia

Diseases of lungs

Congenital heart disease

Condensation of blood due to large of water

Vakez's disease

Content of hemoglobin and number of erythrocytes significantly decreases in a patients blood from time to time. It was found out that such attacks appear after taking some horse beans. What kind of anemia takes place in this case?

Enzymopathy

Membranopathy

Iron deficiency anemia

Hemoglobinonopathy

Acquired hemolytic anemia

Anemia, leuko- and thrombocytopenia, color index 1.3, presence of megaloblasts and megalocytes were determined in the laboratory analysis of blood of a patient a year later after he was operated own for subtotal resection of the stomach for the ulcer of lesser curvature of the stomach. What factor deficiency results in these changes?

Gastromukoprotein

Gastrin

Pepsin

Chlorine hydrate

Mucin

Amino acids replacement in alpha and beta chains of hemoglobin takes place in number of hemoglobinopathies. Which of them is typical for HbS (sickle-cell anemia)?

Glutamate to valine

Glycine to serine

Aspartate to lysine

Methionine to histidine

Alanine to serine

Hereditary microspherocytic hemolytic anemia (Minkovsky-Shoffar disease) was diagnosed in a women aged 34. What mechanism caused hemolysis of erythrocytes in the patients?

Membranopathy

Enzymophaty

Hemoglobinopathy

Autoimmune impairment

Hypoplasia of bone marrow

Megaloblastic anemia was diagnosed in a patient. What substance deficiency may cause the development of this disease?

Cyanocobalamin Cholecalciferol Magnesium Glycine Copper

Thee years ago man aged 45 was operated on for stomach resection. After the operation the content of erythrocytes in the blood is 2.0×10^{12} , Hb 85 g/l, color index 1.27. What vitamin absorption is impaired that causes the change of erythropoiesis?

 B_{12} .

 \mathbf{C}

P

 $\begin{array}{c} A \\ B_6 \end{array}$

A patient, carrier of hereditary sickle-cell erythrocytes anomaly, had pneumonia accompanied by hemolytic crisis and development of anemia. What is the main cause of hemolytic crisis in this case?

Hypoxia caused by pneumonia

Hyperoxia

Heterozygosis gene

Hypoxia of structural gene

Blood osmolarity change

Examining the oral cavity of a patient, a dentist paid attention to the presence of inflammatory-dystrophy process in the mucous membrane (Gunter's glossitis, atrophic atomatitis). Blood analysis revealed hyperchromic anemia. What factor is a cause of this disease?

Hypovitaminosis B₁₂

Hypovitaminosis B₆

Hypovitaminosis A

Increase of stomach juice acidity

Hypovitaminosis B₁

Afemale patient complains of malaise weakness, breathlessness, rapid fatiguability, and dizziness. Her blood test data: erythrocytes - 1.8x10¹²/L, Hb - 80 g/l, leukocytes - 3.2x10⁹/L, color index - 1.5. Anisocytosis, poikilocytosis, megaloblasts, megalocytes were found in smear. What is the possible diagnosis?

B₁₂-deficiency anemia

Posthemorragic anemia

Acute leukemia

Iron deficiency anemia

Immunohemolytic anemia

A patient, aged 50, complains of a bad appetite, loss weight, weakness, pain in the stomach area, and eructation. At laboratory examination of him: Hb - $2x10^{12}$ /L, stomach secretion 0.4 1, pH of stomach juice - 7. Pernicious anemia is diagnosed in this patient. What compound of gastric juice deficiency is the cause of the disease?

Castle's factor

Pepsin

. Renin

Secretin

HCL

On the seventh day after hemorrhage caused by a trauma, the following was revealed in a patients blood: erythrocytes - 2.8x10¹²/L, Hb - 3.9 mmol/l, reticulocytes - 15%, acidophilic and polychromatophilic normoblasts were found in smear. What is the mechanism of appearance of regenerative forms of blood erythrocytes?

Intensification of regeneration of erythroid cells in bone marrow

Going out go blood deposition

Increase permeability of regeneration of erythroid sprout of bone marrow

Inhibition of maturation of erythroid cells in bone marrow

Inhibition of synthesis of erythroprotein inhibitor

 B_{12} -folate deficient anemia was diagnosed in a patient aged 55. What hematological index will be the most sensitive for pathogenetic treatment?

Reduction of anisocytosis

Increase of number of erythrocytes

. Increase of number of reticulocytes

Decreas of ESC

Decrease of amount of hemoglobin

In pregnant women, in the 7th month of pregnancy, anemia begins rising fast. In her blood test: number of erythrocytes is 2.7×10^{12} /L, amount of hemoglobin is 90 g/L, anisocytosis, poicilocytosis, megaloblasts and megalocytes were found, reticulocytes of 0%. What sort of anemia develops in this case?

B₁₂-deficiency anemia

Thalassemia

Post-hemorrhagic anemia

Iron-deficiency anemia

Hemolytic anemia

In an infant, who is under an artificial nutrition with cow milk, severe anemia has developed. At the blood count of the infant: number of erythrocytes is $4x10^{12}$ /L, content of hemoglobin is 69 g/l. reticulocytes of 0%. What kind of anemia developed in the infant?

Iron-deficiency anemia

Sickle-cell anemia

Inborn hemolytic anemia

B₁₂-deficiency anemia

Hypopastic anemia

Predomination of erythroblasts, normoblasts and megaloblasts was revealed in blood analysis pf a patient with anemia. The same cells were found in bone marrow. What type of anemia do these changes characteristic for?

B₁₂-folate deficiency anemia

Pors-hemorrhagic

Hemolytic

Aplastic

Iron-deficiency anemia

Singular oxyphilic normoblasts appeared in the blood of a patient after acute post-traumatic hemorrhage composing 15% of blood volume. On supra vital staining 25% of reticulocytes were found. What is the patient anemia according to its ability of regeneration?

Hyperregenerative

Regenerative

Hyporegenerative

Aregenerative

Hypo- and aregenerative

What index of blood analysis is the most typical for beta-thalassemia?

Increase of fetal hemoglobin

Considerable decrease of erythrocytes and hemoglobin

Erythrocytes with basophilic stippling

Target-like erythrocytes

Increase of met-hemoglobin

A patient had anemia due to profuse blood loss. What blood changes are typical at the beginning of development of acute post-hemorrhahig anemia?

Normochromia

Presence of megalocytes in the blood

Absence of reticulocytes

Poikilocytosis, anisicytosis

Hyperchromia

Erythropenia, hyperchromia, normocytes, macrocytes, megalocytes, poikilocytosis were found out in a patients blood at examination. What is the cause of this pathology?

Deficiency of gastromucoprotein

Ascaridosis

Iron deficiency in food

Trichocephaliasis

Fequent loss of blood

While studying a blood smear different forms of erythrocytes were found. Which of them are regenerative?

Anisocytes

Poikilocytes

Ploychromatophilis

Ovalocytes

Megalocytes

The experiment was carried out on a rabbit. The increase of the number of erythrocytes and hemoglobin in the blood due to the stimulation of erythropoiesis by erythropoietin was determined 2 weeks later after the narrowing of renal artery. What increases the formation of erythropoietin?

Hypoxemia.

Hypoosmia

Hypercapnia

Hyperosmia

Hypovolemia

A female patient complains of malaise, weakness, breathlessness, rapid fatiguability, an dizziness. Her blood test: erythrocytes - 1.8x10¹²/L, Hb - 80 g/l, leukocytes - 3.2x10⁹/l, color index - 1.5. Anisocutosis, poikilocytosis, megaloblasts, megalocytes were found in s,ear. What is the possiblee diagnosis?

B₁₂-deficiency anemia

Posthemorrhagic anemia

Acute leukemia

Iron deficiency anemia

Immunohemolytic anemia

Erythropenia, hyperchromia, normocytes, macrocytes, megalocytes, poikilocytosis were found out in a patients blood at examination. What is the cause of this pathology?

Deficiency of gatomucoprotein

Ascariasis

Iron deficiency on food

Trichocephaliasis

Fequent loss of blood

The presence of agranulocytosis was determined in the blood analysis of a liquidator of accident at Chernobyl atomic power station who had got 5 Gr dose of irradiation. What pathogenetic mechanism is the leading one in its appearance?

Inhibition of leucopoiesis

Increased penetration of granulocytes into tissue

Increase of leucocytes destruction

Impairment of going out of mature leukocytes from bone marrow

Development of autoimmune process

During the development of acute pulpitis a patient complained of paroxysm of pain in the upper jaws, which is increasing at night, fever. At examination leucocytosis was established in the blood. What king of leucocytosis is possible in this case?

Neutrophilic leucocytosis

Basophilic leucocytosis

Lymphocytosis

Eosinophilic leucocytosis

Monocytosis

Considerable increase of the number of eosinophilia in a unit of blood volume was determined during the examination of a 5 years old boy. What may cause eosinophilia in this patient?

Helminthic invasion

Obesity

Hypodynamia

Hypotermia

Physical exertion

In the patients blood analysis the number of leukocytes is 250×10^9 /l. What syndrome does this patient have?

Leukemia

Leucocytosis

Leucopenia

Leuconoid reaction

Hyperleucocytosis

Leucocytosis was found out in a person who didn't complain of his health. The cause of this may be that fact the blood was taken for analysis after:

Physical load

Mental work

Rest at a health resort

Considerable use of water

Usage of alcohol

Lymphocytosis was revealed in a patient. What diseases may be accompanied by lumphocytosis?

Pertussis, chicken pox sepsis

Helminthic invasion

Somatotropin insufficiency

Bronchial asthma

Neutropenia is found out in a patient who has the manifestations of immunodeficiency. What diseases may neutropenia be determined in?

Fuzarium fungus poisoning

After profuse hemorrhage

Myeloleukemia

Insufficiency of sexual gland function

Septic process

Increase of the number of eosinophilis was determined in a patient with endorphins pathology during examination. Which of the named diseases may be accompanied by eosinophilia?

Acromegaly

Pheochromocytoma

Conn's disease

Cushing disease

Addison's disease

Functional insufficiency of monocytes is accompanied by immunodeficiency. What BAS produced by monocytes stimulate specific response?

Interleukin-1

Interleukin-2

Lysocime

Fibronectin

Myeloperoxidase

Relative neutropenia with degenerative shift was revealed in the blood of a patient with TB during examination. What change of differential blood count corresponds to this state?

Decrease of the number of segmented forms and increase of band forms of neutrophils

Decrease of lymphocyte number

Increase of monocyte number

Increase of basophil number

Decrease of eosinophil number

Neutrophil leukocytosis was revealed in worker during examination. What pathologic condition may neutrophil leukocytosis result from?

Chronic loss of blood

Septic condition

Vital infection

Radiation sickness

Benzene poisoning

A patient aged 32 with massive hemorrhage due to car accident trauma was admitted to the hospital. Pulse - 100 beats per min, respiratory rate - 22 per 2 min, BP - 100/60 mmHg. What blood change will be the most characteristic in an hour after hemorrhage?

Hypovolemia

Trypovoleillia

Erythropoenia

Hypoproteinemia

Leucopenia

Erythrocyte hypochromia

During the examination of peripheral blood of a patient aged 42. it was revealed: Hb-80g/l, erythrocytes - $3.2x10^{12}$ /L, leucocytes - $25x10^{9}$ /l, leukocytic formula: basophilic - 5%, eosinophils - 9%, myeoblasts - 3%, promyelocytes - 8%, neutrophils - 17%, segmented - 19%, lymphocytes - 3%, monocytes - 3%. What blood pathology is the most possible in this patient?

Chronic myelogenous leukemia

Panmyelophthysis

Erythroleukemia

Acute myeloblsat leukemia

Promyelocytic leukemia

The experiment was carried out on a rabbit. The increase of the number of erythrocytes and hemoglobin in the blood due to the stimulation of erythropoiesis by erythropoietin was determined 2 weeks later after the narrowing of renal artery. What increases the formation of erythropoietin?

Hypoxemia

Hypoosmia

Hypercapnia

Hyperosmia

Hypovolemia

What condition are accompanied by neutrophilic leukocytosis with shift of different count to the left?

Purulent inflammation

Tuberculosis

Infections mononucleosis

Agranulocytosis

Alimentary leukocytosis

Patient R. aged 12 was operated on for acute phlegmonous appendicitis. At the examination of his blood, the amount of leukocytes is $12x10^9$ /L. On the blood smear there are: basophils - 0%, eosinophils - 2%, monocytes - 2%, juvenile neutrophils - 0%, stab neutrophils - 30%, segmented neutrophils - 43%, lymphocytes - 23%, monocytes - 0%. Stab (immature) neutrophils have pyknosis of nuclei. There is anisocytosis of neutrophils, some of them have toxic granulation. What form of change of leukocyte blood composition takes place in this case?

Leukemoid reaction of neutrophil type

Neutrophilia with degenerative shift to the left

Neutrophilia with regenerative shift to the left

Neutrophilia with hyperregenerative shift to the left

Neutrophilia with the shift ti the right

Neutrophil leukocytosis is determined in the patient with chronic myelogenous leukemia. Which variant of nuclear shift of differential count to the left is the most typical for clinic myelogenous leukemia?

Hyper regenerative

Regenerative

Degenerative

Regenerative and degenerative

Hyporegenerative

A patient with atrophic gastritis has vitamin B_{12} deficiency. What variant of nuclear shift of differential count is most typical for B_{12} hypovitaminosis?

To the right

Hyper regenerative to the left

Degenerative to the left

Regenerative an degenerative to the left

Regenerative to the left

What blood pathology is the presence of Philadelphia chromosomes in the blood cells and bone marrow cells typical for?

Chronic myelogenous leukemia

Acute myelogenous leukemia

Hodgkin's disease

Burkitt's lymphoma

Chronic lymphocyte leukemia

Patient M. aged 20 was admitted to the hospital complaining of high temperature, pain in the bones, and hemorrhage from his gums. Blood analysis of this patient shows: erythrocytes-2.5x1012/L; Hb-8Og/L; leucocytes-2.0x109/L; thrombocytes-6.Ox109/L; differential count: eosinophils-1%; stab neutrophils-1%; segmented neutrophils-10%; lymphocytes-10%; monocytes-3°/o; blast cells-75%. What pathology is this blood analysis typical for?

Acute leukemia

Hodgkin's disease

Burkitt's lymphoma

Infections mononucleosis

Chronic leukemia

General amount of leucocytes is 90x109/l. In differential count: eosinophils-1%; basophils-0%; juvenile neutr'ophils-09/o; stab neutrophils-2%; segmented neutrophils-20%; prolymphocytes-2%; lymphocytes-70%; BotkimGumprecht cells. Cervical, submandibular lymph nodes are enlarged. What pathology is such blood picture typical for?

Chronic lymphocytic leukemia

Acute lymphoblastic leukemia

Hodgkin's disease

Infectious mononucleosis Chronic myelogenous leukemia

Hypochromic anemia was found out in a patient aged 54, who had a prolonged contact with lead at his work. Treatment with iron preparations for a month didn't give any effect. The increased amount of iron was determined in blood serum. What is this anemia due to?

Hypoplasia of red bone marrow

Vitamin B12 deficiency

Porphirin synthesis impairment

Folic acid deficiency

Erythrocyte hemolysis

Posthemorrhagic anemia has developed in a patient with periodical bleeding due to uterus fribromyoma. What type of chronic post hemorrhagic anemia takes place in this case?

Erythroblastic, hypochronic, hyporegenerative.

Megaioblastic, hyperchromic, hyperegenerative.

Megaloblastic; hypochromic, hyporegenerative.

Erythroblastic, hyperchromic, hyporegenerative.

Erythroblastic, hypochromic, hyperregenerative.

A female patient, aged 25, was admitted to the hematological department with complains of the appearance of hemorrhages of different sizes on the body; during menstruation there are uterine bleedings. She has been ill for ten years. Paleness of skin and mucous membranes were determined on examination; there are hemorrhages of different size and color on the upper and lower extremities. Pulse = 100 beats/minute, AP 110/70 mmHg. Blood analysis shows: erythrocytes 3.3"'1012 /L, Hb 8og/L, V thrombocytes 33* 10%; time of blood coagulation: beginning is at 2nd minute, end is at 6th minute; time of bleeding (according to Duke) - 15 minutes. What is the possible diagnosis?

Thrombocytopoenic purpura.

Marchiafava-Michelli disease.

Glanzman's thrombasthenia.

W illeberandt-Yurgens thrombocytopathia

Chronic myelogenous leukemia.

Hemiparesis appeared in a patient with acute promyelocytic leukemia. What is the main mechanism of the impairment of CNS in this case?

Formation of leukemic infiltrates;

Intoxication by leukemic cells decay products;

Impairment of desintoxicative function of the liver;

Cachexia;

Increase of thrombogenesis.

A female patient took analgin because of toothache. Dark urine, icteric sclera, weakness appeared in her two days later. Which of the causes given below is the most possible one?

Immune hemolytic anemia

Hypoplastic anemia

Thrombocytopoenia

Thrombocytopathy

Agranulocytosis

Enlargement of liver and spleen, anemia, and myeloblasts in peripheral blood were revealed in a patient with acute leukemia.

What is the main trait, which allows to distinguish acute myelogenous leukemia tram chronic one?

Leukemic gap

Pancytopoenia

Blast cells in peripheral blood

Anemia

Thrombocytopoenia

Extraction of a tooth, in a patient with chronic lymphocytic leukemia, was complicated by prolonged bleeding. What may cause the hemorrhagic syndrome in this patient?

T hrombocytopoenia

Anemia

Lymphocytosis

Eosinopoenia

Neutropoenia

A patient with leukemia has general number of leukocytes of 120.ox109/L. What kind of leukemia does this patient have? Leukemic

Leucopenic Subleukemic Aleukemic Erythremia

Patient with chronic leukemia has sharply increased temperature, breathlessness, marked muscular weakness at insignificant physical exertion, increased sweating, cough. What mechanism of leukemia e influence upon organism underlies complications in this patient?

Immunodeficiency due to fiinctional inability of leukocytes

Internal bleeding because metastases into vessel wall

Anemia

Tumor progression

Airway obstruction because of development of metastase

A patient addressed a dentist with complaints of affections of mucous membrane of his mouth. During the examination of the patient ulcerous stomatitis with necrosis in center was revealed at him in area of his palate. In the history of disease of the patient recently endued pneumonia and taking of medicines sullbnilamides) were present. After administering treatment the doctor pointed the patient for blood analysis. What pathology from below mentioned does doctor suppose?

Immune agranulocytosis

lRon deficiency anemia

Thorombocytopoenia

infectious mononucleosis

Intetn'ious lymphocytosis

Miocardial infarction was diagnosed in 65-years-old man. Neutrophilic leukocytosis with left shift is present in the blood of this patient. What factors underlie this phenomenon?

Products ot'tissue decay

Elevation of mass of muscular fibers

Disorders of alveolar ventilation

Decrease in glycogen content in the myocardium

increase of arterial pressure

Increased concentration of leukopoietins in blood was found in a patient with leth appendicitis. What kind of lekocytosis occurs in these conditions?

Neutrophilic

Basophilic

Eosinophilic

Monocytotosis

No correct answer

A patient has deficiency of cyancobalamine and folic acid that leads to disorder of leucopoiesis. What changestakes place in these conditions?

Leucopoenia

Eosinophilia

Basophilia

Hemophilia

Hyperemia

A patient, who was exposed to ionizing radiation, has panmyelophtisis and secondary infections. What changes occur in blood analysis in this case?

Agranulocytosis

Leucocytosis

EOsinophilia

Basophilia

Hyperemia

When examining a blood in a patient, who endued bleeding three days ago, following data was revealed: number of leukocytes is 12x109/L, basophils count is 0%, eosinophils count is 3%, myelocytes count 0%, l juvenile neutrophils count is 3%, stab neutrophils count is 12%, segmented neutrophils count is 62%, Limphocytes count 16%, and monocytes count is 4%. What kind of changes of leukocyte differential count takes place in this case?

Neutrophilia with regenerative shift to the left

Neutrophilia with degenerative shift to the left

Neutrophilia with shift to the right

Absolute lymphopoenia

Absolute monocytopoenia

40-years-old patient, who was admitted to the surgical department with diagnosis of phlegmona of thig'n. had high temperature, tachycardia, and breathlessness. On the blood test of this patient: number of leukocytes is 25x109/L; eosinophils count is 1%, myelocytes count is 1%, juvenile neutrophils count is a 15%, band neutrophils count is 25%, segmented neutrophils count is 40%, lymphocytes count 14%, monocytes count is 4%. What kind of shift in differential count is present in this case?

Hyperregenerative

Regenerative

Degenerative

Regenerative-degenerative

Leukemoid

A patient with acute pulpitis has an increased body temperature and a number of leukocytes up to 14.10/9 L differential count represents: basophils-0%; eosinophils-2%; megakaryocytes-0%; juvenile neutrophils-2%; stab neutrophils-8%; segmented neutrophils-58% lymphocytes-26%; monocytes-4% How can you evaluate such changes in blood?

Neutrophilic lekocytosis with regenerative SHIFT to the left

Neutrophilic lekocytosis degenerative shift to the left

Neutrophilici lekocytosis with hyperregenerative shift to the left

Lymphocytosis

Neutrophilic leukocytosis with shift to the right

A patient aged 30 took sulfaethidole for infectious process of mucous membrane in the mouth locally (as ponder). Preparation has hemotoxic action and the treatment was complicated by the development of agranulocyrosis. At examination it was revealed: Decrease of the number of granulocytes in the blood on the background of leucopoenia;

Increase of agranulocytes in the blood;

Decrease of the number of granulocytes in the blood on the background of leukocytosis;

Decrease of the number of neutrophylic granules with their simultaneous increase;

Loss of their granules by granulocytes.

A WomeN. fell ill with purulent stomatitis. What index of complete blood count is characteristic for this disease?

Leukocytosis

Lymphocytosis

Thrombocytosis

Anemia

Monocytosis

It is recommended to perform a clinical examination of blood in an empty stomach. What compounds of peripheral blood may be changed after taking food?

Elevation of number of leukocytes

Decrease in number of platelets

Elevation of number of erythrocytes

Increase in content of plasma proteins

Reduction of number of erythrocytes

Shame pain in the lower jaw, swelling of the cheek, temperature of 376°C occurred in the patient who had had dental caries for some years. What changes in the patient's blood may be observed in this case?

Neutrophilic leukocytosis;

Leucopoenia;

Monocytosis;

Anemia;

Eosinophilia.

A patient aged 43 has stomatitis, glossitis, the tongue is crimson colour, smooth Blood analysisrevealed: Hb 100 g/l; erythrocytes 2.3xl19/l; color index 1.30. What is the patient's state due to?

Vitamin B12 deficiency

Erythrocytes haemolysis

Hypoplasia of red bone marrow

Impairment of porphyrin synthesis

Iron deficiency

A patient with atrophic gastritis has Vitamin Вы deficiency. What variant of nuclear shift of differential count is most typical for Biz hypovitaminosis?

To the right

Hyper regenerative to the left

Degenerative to the left.

Regenerative and degenerative to the left.

E Regenerative to the left

A 32-years-old male patient has hemorrhage after injury of vessel that connected to formation of friablethrombi. What coagulation factor deficiency has led to this disorder?

XIII (fibrin stabilizing factor)

II (prothrombin)

III (thromboplastin)

VII (proconvertin)

XII (Hageman's factor)

A man, who has been to Arctic fora long time, has hemorrhage from gums, his teeth sway and pull out. What is the initial mechanism in scurvy development?

Impairment of collagen synthesis

Infringement of elastin synthesis

Affection of alveolar process

Fragility of capillaries

Insufficient tightness of round ligament of tooth

Preliminary exfoliation of placenta and hemorrhagic shock develop in a pregnant woman during thedelivery. While taking woman's blood for analysis it coagulates in syringe. The acute DIC syndrome isdiagnosed in this woman. What pathogenic mechanism appears to be initial in disorder of hemostasis in this case?

Activation of tissue thromboplastin derived from destroyed tissues

Activation of sympathetic-adrenal system

Elevation of platelet aggregation

Cascade activation of plasma coagulation factors

Oppression of aticoagulative system of blood

It was found out before operating on that the patient has bleeding time increased up to 9 min. What bloodcells deficiency do these changes result from?

Platelets

Monocytes

Erythrocytes

Lymphocytes

Leukocytes

Breathlessuess, acute pain in the chest, cyanosis, and enlargement of neck veins rapidly develop in a patientsuffered from thrombophlebitis. What is the most possible disorder of blood circulation in this patient?

Pulmonary thromboembolism

Cerebral thromboembolism

Coronary thromboembolism

Mesenterial thromboembolism

Portal thromboembolism

Numerous subcutaneous hemorrhages appear in a patient suffered from hepatic cirrhosis. What is a possiblereason for this? Reduction in synthesis of factor 11 (prothrombin)

Excessive decay of vitamin C

Disorder of vitamin K synthesis

Hypocalemia

Deficiency of factor 111 (thromboplastin) in blood plasma

Hemorrhagic syndrome with disorders of the third stage of blood coagulation develops in a patient after shewas operated on uterus. What is the most probable mechanism of hemostasis disorder in this case?

Activation of fibrinolysis

Qualitative abnormalities of fibrinogen

Deficit of fibrin stabilizing factor

Decrease in ptothrombin synthesis

Decrease in fibrinogen synthesis

Hemorrhagic diathesis has developed in a patient, with streptococcus infection. What is the reason forhemorrhage development?

Enhanced fibrinolysis

Elevation of heparin content in the blood

Vitamin A deficiency

Increase in callicrein content in blood

Vitamin C deficit

Point hemorrhages appear on a forearm of a patient after putting a tourniquet on a patient's arm. Whatfunctions of blood cells do these changes connect to?

Platelets

Neutrophils Erythrocytes Basophils Macrophages

A teeth was pulled out from the patient with chronic hepatitis. Bleeding, which developed after that, couldnot be seized for 2 hours. Performed blood analysis establishes increase in content of several coagulation factors. What kind of liemo Stasis is damaged in this case?

Coagulation

Platelet-vascular

Vascular stasis

Platelet reaction

Vascular reaction

Numerous hemorrhages and bruises were found out on the patient's body. At eiaminalion of this patient:his bleeding time by Duke is 25 min, his number of platelets is 25x109/L. What disease are these symptomscharacteristic for?

Hereditary defect of platelet formation

Hemophilia B

Von Willebrand's disease

Vitamin C deficiency

Hemophilia A

A 65-years-old male patient suffered from atherosclerosis was admitted to the surgical department because of diffuse purulent peritonitis. When the patient was operated on thrombosis of mesenterial vessels was diagnosed in him. What is the most possible reason for peritonitis development?

Ischemic infarction

Hemorrhagic infarction

Agiospastic ischemia

Stasis

Compressive ischemia

Hemorrhagic syndrome connected to disorders of the third phase of coagulation developed in a patient afterhe was operated on pancreas. What is the possiblemechanism of development of hemostasis disorder?

Activation of fibrinolysis

Elevation in content of heparin in patient's blood

Reduction in fibrinogen synthesis

Deficit of fibrin stabilizing factor

Reduction in prothrombin synthesis

Sharp pain and edema of tissues develop in a patient with thrombosis of veins of his right calf. What is thepossible consequence of thrombosis?

Circulatory hypoxia

Hypertrophy of tissues

Enhancement of drainage of tissues

Intensification of metabolism

Enhancement of functional activity of tissues

Thrombosis of coronary arteries occurs in a patient with atherosclerosis of cordial vessels. What is thereason for formation of thromb?

Heparin deficiency

Thrombocytopenia

Acceleration of blood flow

Activation of fibrinolysis

Vitamin K deficiency

An elderly patient was admitted to the hospital with thrombosis of veins of his calf. What is the reason forthrombosis development?

Injury of vessel wall

Decrease in prothrombin concentration in blood

Increase in heparin concentration in blood

Slowing-down of blood flow

Activation of plasmin

When examining a patient increased blood coagulation (thrombophilia) was found out in him. What reasons favor such state development?

Deficit of inhibitors of proteolytic enzymes

Intensification of prostacyclin synthesis in vessel wall

Low concentration of thrombin in blood

High concentration of heparin in blood

High concentration of adrenalin in blood

Thrombocytopenia was found out in blood of a patient with Werlgoff's disease. Why the pathology ofplatelets leads to hemorrhage?

Decrease in thromboplastin formation

Decrease in concentration of prothrombin in blood

Decrease in concentration of heparin in blood

Activation of fibrinolytic system

Decrease in concentration of fibrinogen in blood

Hemophilia A was diagnosed in a patient with hemorrhagic syndrome. What is the reason for this diseased evelopment?

Absence of factor VIII

Absence of Stewart's factor (factor X)

Absence of Christmas's factor (factor IX)

Absence of Rosenthal's factor (factor XI)

Low concentration of Hageman's factor (factor XII) in blood

A patient was admitted to the hospital with abundant hemorrhoid bleeding. This patient has been suffering from hepatic cirrhosis for a long time. What is the reason for hemorrhage development under hepatic cirrhosis?

Prothrombin deficiency

Activation of fibrinolysis

Plasmin deficiency

Low concentration of thrombostenin in blood

Excess of heparin

While climbing upstairs on the 5th floor a patient has got an increased arterial pressure. The cause is theincrease of:

Minute volume of the blood

The number of functioning capillaries

Content of ions in blood plasma

Viscosity of the blood

Circulating volume of the blood

On analysis ECG it was determined: sinus rhythm, correct, interval RR is 0.58 see, location and duration ofother intervals, waves and segments are not changed. Call the type of arrhythmia:

Sinus tachycardia

Sinus bradycardia

Indioventricular rhythm

Sinus arrhythmia

Ciliary arrhythmia

The firstioning of certain structures is stopped on the isolated heart by means of cooling. What structure is cooled if due to this the contractions stopped at first, but then they began with a rate 2 times slower thaninitial one?

Sinoatrial node

Purkinje's fibres

Limbs of His" bundle

Atrioventricular node

His' bundle

A patient with chronic glomerulonephritis has edema, BP is 210/100 mmHg; the rate of heartbeat is 85 perminute; the borders of the heart are dilated. What is the leading mechanism in the development of arterial hypertension?

Activation of renin-angiotensin-aldosterone system

Increase of the activity of sympathetic adrenal system

Hyperfunction of the heart

Increase of circulating volume of the blood

Increase of vasopressin output

The patient's ECG shows that interval RR=1.5 5, heart rate - 40 per min. What is the pacemaker of the heart?

Sinus node

Left limb of His' bundle

His' bundle

Right limb of the His bundle

Atrioventricular node

Pulmonary edema developed in a patient with hypertonic crisis. What is the main factor in the pathogenesis of his state?

Increase of hydrostatic pressure in the capillary of the lungs.

Increase of arterial pressure

Permeability increase of the vessels of pulmonary circulation

Resistibility increase of the lung vessels

Decrease of oncotic pressure of blood plasma.

Redistribution of organ blood supply took place in a young man, aged 20 during the load. What organ did the blood flow increase in most $O\Gamma$ all?

Skeletal muscles

Brain

Kidneys

Liver

Heart

A patient with renal disease accompanied by parenchyma ischemia has a high arterial pressure. What leading factor is the cause of the increase of AP in this patient?

Excess of angiotensin II

Excess OΓ antidiuretic hormone

Increase OΓ heart output

Increase of sympathetic nervous system tonus

Hypercatecholaminemia

During the operation reflex increased of vagus nerve influence on the heart happened. What may occur in this case?

Cardiac arrest

Increase of atrioventricular node conduction

Increase of myocardium conduction

Intensification of myocardium contractions

Increase of heart rate

Decrease of RR interval was revealed on ECG of a man. What changes in the heart work are observed in this case?

Increase $O\Gamma$ heart rate

Decrease of heart rate

Increase of force of contractions

Decrease of force contraction

Decrease of force and rate of contractions

Large amount of isoenzymes of creatine k'inase of MV-form was revealed in the blood O Γ the patient with destructive changes in the muscular tissue. What is the most possible diagnosis?

Myocardial infarction

Muscular atrophy A

Muscular dystrophy

Polymyositis

Myopathy

Patient's attack of tachycardia was stopped by pressing on the eyeballs (Danini-Ashner reflex). In the decrease of the heart rate there is intensification of the influence on the sinoatrial node of:

Vagus nerves

Sympathetic nerves

Autonomic nervous system

Sympathoadrenal system

Catecholamines

Considerable increase of PQ interval was found out on ECG. It means that conduction OΓ stimulation is delayed by:

AV node

Atria

His' bundle

Purkinje's fibres

Ventricles

During the attack of heartbeat a patient with thyrotoxicosis has an irregular pulse of different filling, pulse deficiency is, observed. Waves P are absent; small in amplitude, disorderly undulations (P waves), and irregular ventricular complexes OF ordinary configuration are noted. What kind of rhythm impairment is observed in a patient?

Ciliary arrhythmia

Sinus tachycardia

Sinoatrial block

Paroxysmal tachycardia Ventricular extrasystole

At examination of a patient strengthening of a second pulmonic sound, hypertrophy of the right ventricle wall are determined.

What changes of hemodynamic take place in pulmonary circulation?

Spasm of resistant vessels in the lungs.

Hyperperfusion of the lungs

Hypoperfusion of the lungs

Manifestation of Hering-Breuer reflex

Development of broncho-alveolar vascular anastomosis

At examination a patient's arterial pressure is 190/100 hg. What factors leads to increase of arterial pressure?

Spasm of resistance vessels

Increase of venous recurrence

toxygenic dilation of cardiac muscle

Aler-Lilestrand reflex

Kitaevs reflex.

Marked frequency of the patients pulse was determined during the examination, what is sinus tachycardia due to?

Increase of speed of slow diastolic depolarisation

Hypothyrosis

Hypokalemia

Tonus increase of vagus nerve

Excess of acetylcholine

Considerably slow pulse was determined in a patient at examination. What is sinus bradycardia due to?

Decrease of speed of slow diastolic depolarisation

Hypercatecholaminemia

Decrease of circulating blood volume

Hyperkalemia

Haemic hypoxia

The rate of spread of pulse wave turned out to be considerably higher in a man aged 70, than in a managed 25. The cause of this is decrease of:

Elasticity of vascular wall

Arterial pressure

Cardiac output

D. Rate of cardiac contractions

E. Circulation rate

.0n recording ECG of a patient with hyperfunction of the thyroid gland increase of rate of cardiac i contractions was registered. Shortening 'of what ECG element indicates this?

Interval R-R

Interval P-Q

Interval P-T

Segment P-Q

Complex QRS

A man has got an electro trauma. Current went through the cardiac muscle. What dangerous impairment in the work of the heart demanding urgent measures may appear in this situation?

Ventricular fibrillation

Bradycardia

Extrasystole

Atrial fibrillation

Tachycardia

After taking a fatty food a patient feels nausea, flaccidity, later the sing of steathorrhea has appeared, cholesterol in the blood 9,2ml/c. The cause of this state is the deficiency of:

Bile acids.

Chylomicrones.

Triglyceroides.

Fatty acids.

Phopholipids.

A patient aged 45 had the diagnosis ulcer of stomach. On examination of secretory function of the stomach it was determined that the basal secretion was 100mole-hr, acidity of basal secretion - 60 mml/hr. What factors action contributes to the hypersecretion in the stomach?

Gastrine.

Pancreatic polypeptide.

Somatostatin.

Glucagon.

Betaendorphin.

On laboratory examination increased amount of diastase in the urine and also a large amount of undigested fat in stool were revealed in a patient female with complain of circular character pain in epigastric area. What form of gastrointestinal tract pathology are described signs typical for?

Acute pancreatitis.

Inflammation of large intestine.

Acute appendicitis.

Infection gastritis.

Ulcerous disease of the stomach.

A part of patient pancreas was resected. What kinds of product must be limited in his diet?

Fatty and fried meat.

Sour milk product.

Fruits.

Not fatty boiled meat.

Vegetables.

What enzyme deficeiency is the cause of maldigestion of fats in the gastrointestinal tract and increase of neutral fats in the stool?

Pancreatic juice.

Gastric lipase.

Intestinal lipase.

Hepatic lipase.

Enterokinase.

Decrease of synthesis and secretion of trypsin is observed in chronic pancreatitis. The splitting of what substances is broken?

Proteins.

Nucleic acids.

Polysaccharides.

Lipids.

Liposoluble.

In coprologic investigation it is determined that stool is discoloured, there are drops of neutral fat in it. The most possible cause of this is the impairment of?

Entering of bile into the intestine.

Secretion of intestinal juice.

Process of absorption in the intestine.

Acidity of gastric juice.

Secretion of pancreatic juice.

A patient had been taking antibiotics of a wide spectrum of action for a long period of time that caused decrease of appetite, nausea, and diarrhea with saprogenic smell. What is the side effect of treatment?

Dysbacteriosis.

Hepatotoxic action.

Allergic reaction.

Nephrotoxic action.

Direct irritative action.

On examination of a patient suffering from acute pancreatitis increased amount of chylomicrons was determined in the blood.

What enzyme activity is sharply decreased in this pathology?

Lipoproteinelipase

Pancreatic lipase

Pancreatic phospholipase

Tissue trigliseride lipase

Tissue digliseride lipase

The analysis of gastric juice of an elderly man who complained of unmotivated weakness, sickness, absence of appetite showed achylia, achlorhydrea, and presence of lactic acids and coagulated blood, decreased of pepsin secretion. What disease causes such clinical-laboratory symptoms?

Cancer of the stomach Chronic gastritis Chronic pancreatitis Cavitary Maldigestion Acute gastritias

A man with chronic hepatitis has dyspeptic disorders: decrease of appetite, nausea, unstable stool, and steathorrhea. What is the mechanism of dyspeptic disorders in hepatic pathology?

Hypocholia

Intoxication

Hypoglycemia

Cholalemia

Hyperbilirubinemia

Spasmodic pains in the abdomen and repeated diarrhea with mucus appeared in a healthy person 3-5 hours later after taking meals. This was preceded by nausea and momentaneous vomiting, general weakness, loss appetite. What is the most possible cause of the desired symptoms?

Food intoxication

Chronic pancreatitis

Enterocolitis

Hyperacid state of the stomach

Chronic gastritis

A man who work at a storage battery plans complains of constant felling of weight and periodical spasmodic pains in the abdomen, constant retention of stool(not more often than one time per three day). This is accompanied by frequent headaches, flaccidity absence of appetite, and bad taste in the mouth. What are the causes of these disorders?

Spastic lead colic with constipation

Hyper acid state of the stomach

Hypoacid state of the stomach

Chronic pancreatitis

Parietal maldigestion

Due to chronic gastritis a man has impaired structured of the mucous membrane, decreased indices of acid formation function of the stomach. The most essential negative result of this will be the impairment of:

Protein digestion

Excretion of secretum

Pancreatic juice secretion

Secretory function of small intestine

Evacuation of chyme. Into duodenum

On laboratory examination increased amount of diastase in the urine and also a large amount of undigested fat in stool were revealed in a patient with complains of circular character pains in epigastric area. What form of gastrointestinal tract pathology are the described signs typical for?

Acute pancreatitis

Inflammation of the large intestine

Acute appendicitis

Infectious hepatitis

Ulcerous disease of the stomach

A patient aged 35 with ulcerous disease had a rejection of antral portion of the stomch. What gastrointes al or once secretion will be impaired due to operation?

Gastrin

Secretin

Neurotensin

Histamine

Cholecystokinin

A patient aged 57 was admitted to a gastrointestinal department with suspicious on Zolliger-Ellison syndrome, which was proved by sharp increase of gas level in the blood serum. What impairment of secretory gas e function is the most possible?

Hyperacid hypersecretion

Hypercid hyposecretion

Hyperacid hypersecretion

Achylia

Hypoacid hyposecretion

A patient with signs of encephalopathy was hospitalised in neurological in-patients department and corelation between increase of encephalopathy and substances passing from intestine into systemic blood circulation was determined. What compounds formed in the intestine may cause endotoxemia? Indole Acetoacetat **Biotin** Ornitin **Buthirat** A patient age 37 was admitted into a surgical department with the signs of acute pancreatitis: vomiting, diarrhea, bradycardia. hypotension wearness, dehydration of the organism. What preparation must be used first of all? Contrical **Ephedrine** No-spa Pephenazine Platyphyllin A patient has a stone in the common bile duct, wich has stopped passing bile into the intestines. The impairment of what digestive process is observed in this case? Digestion of fats Digestion of carbohydrates Absorbtion of carbohydrates Absorption of proteins Digestion of proteins On fibroscopy of the stomach ulcer was revealed in antrum portion which was associated with dissemination of nucosa by helicobacter pylori. The role of this agent in the formation of ulcer results in: Damage of mucous barrier Inhibition of mucosa regeneration Impairment of microcirculation in mucous Stimulation of HCL secretion Stimulation of pepsin secretion A patient with ulcer of stomach has impairment of equilibrium between the factors of aggression and defense. What factor contributes to the development of gastric ulcer? Helicobacter pylori Mucin Bicarbonate Prostaglandin E2 Prostacyclin After resection of duodenum a patient has developed a syndrome of duodenal in sufficiency due to the impairment of its endocrine function with signs of cell insufficiency of APUD system. What hormone is produced by A-cells of s portion of intestine? Glucagon Histamine Insulin Serotonin Secretin

A patient complains of nausea, which often ends with vomiting. These dyspeptic phenomena become mote laborious with time. What stomach function is infringed in this patient?

Evacuation

Motility

Reservoir

Incretory

Secretory

A patient aged 42 was admitted to the hospital with gastric hemorrhage (ulcerous disease was excluded by a patient). Ulcer and hyperplasia of gastric mucose were revealed. What investigation is it necessary to carry out to confirm the diagnosis of Zollinger-Ellison syndrome in this patient?

Definition of gastrin level in the blood

Tomography of pancreas

Definition of secretin level in the blood

Definition of activity level of pancreatic enzymes

Investigation of activity level of pancreatic secretion

The amount of protein in the blood was examined in a patient after resection of sizeable part of small intestinc. What change of in amount may be expected in this patient?

Hypoproteinemia

Hyperproteinemia

Paraproteinemia

Flypergammaglobulinemia

Pysproteincmia

Ulcerous disease of the stomach is revealed in a woman aged 52, who has been ill with contact dermatitis On examination it is determined that the patient had been taking corticosteroid preparations for a long period of time, but acidity of gastric juice was increased. What mechanism caused the increase of gastric secretion?

Decrease of prostaglandin content

Increase of secretin secretion

Gastrin hyposecretion

crease of histamine content

Increase of gastrin excretion

A patient complains of vomiting, eructation, pain in epigastric area, constipation, and emaciation. On examination a basal secretion of HCL is 6mnl/gr: maximal one is 60mml/gr. What state has acid-forming function of this patient?

Hyperacid

Hypoacid

Anacid

Hypersecretory

Normacid

A patient aged 42 complains of pains in epigastric area, vomiting; vomitory masses have color of "coffee grounds", melena. In anamnesis there is ulcerous disease of the stomach. On examination: skin is pale, heart rate-110 beats per minute: AP-90/50mm.hg. Blood analyses: erythrocytes-2.8 x 10 /1 leucocytes-8x10/1 hemoglobin-90 gr/I. What is the possible complication that developed in the patient?

Hemorrhage

Penetration

Perforation

Cancerous degeneration

Pylorostenosis

The investigation of pancreatic function was carried out in experimental animal by radioisotopic method. The percentage of excreted with stool 1^{131} - albumin is 53%. This is the evidence of:

Inhibition of exocrine function

Increase of exocrine function

Increase of incretory function

Inhibition of incretory function

Normal function

Malabsorption syndrome is:

Syndrome of intestinal malabsorption

Syndrome of membranous maldigestion

Syndrome of gastric malabsorption

Syndrome of malabsorption in small intestine

Malabsorption of proteins

A patient complains of dyspeptic disorders, melena, hemorrhoidal bleedings. While examination of the patient enlargement of veins at the anterior surface of abdomen and increased abdomen dimensions were revealed. What pathology of GIT may manifest by such symptoms?

Portal hypertension

Colitis

Intestinal autointoxication

Peptic ulcer

Enteritis

A 67-year-old woman, who has cholecystitis for a long time, suddenly developed sharp pain in the upper part of abdomen, nausea, and vomiting after food intake. Acute pancreatitis was diagnosed in this patient. What is the main link in pathogenesis of this disease?

Preliminary activation of pancreatic enzymes

Decrease in enzyme levels in pancreatic juice

Intensification of enzyme activation in duodenum Reduction of pancreatic polypeptide secretion Increased level of cholecystokinin

A patient has increased gastric secretion in response to both mechanical and chemical stimuli. He has high acidity of gastric juice with pH equals 2.0 on an empty stomach. After the breakfast pH restores to normal in 12 minutes and is continuously dropping during following 2 hours. What type of stomach secretion is being observed in this patient?

Excitable

Inhibited

Inert

Asthenic

Normal

Flabby contraction of gall bladder was revealed in a woman aged 55 after introducing some of vegetable oil into duodenum. What hormone insufficiency with such state?

Cholecystokinin

Gastrin

Enterogastrone

VIP

Pancreozymin

A patient aged 25 has a diagnosis of chronic hepatitis. A patient has lost 10 kg of his body weight for 2 months. Objectively: the skin is dry, desquamative, and pale with yellowish color, small punctate hemorrhages on the skin, stomatorrhagia. The impairment of what hepatic function do petechial hemorrhage and stomatorrhagia prove?

Albumin synthetic

Glycogen synthetic

Pigmentary

Detoxifying

Depositing

On examination bile congestion in the liver and cholelithiasis were revealed in a patient. Point out the main component of cholelithiasis in this state:

Cholesterol

Calcium bilirubinate

Triglycerides

Protein

Mineral salts

Residual nitrogen and urea were determined in the patient's blood analysis. The amount of urea in the residual nitrogen is considerably reduced. The disease of what organ is characterized by this analysis?

Liver

Intestine

Kidneys

Stomach

Heart

A patient complains of general weakness, boring pain in the abdomen, bad appetite, suspicion on jaundice. Blood serum contains 77.3 micromol/L of total bilirubin and 70.76 micromol/L of conjugative bilirubin. What is the most possible type of jaundice?

Mechanical jaundice

Acute hepatitis

Hepatic cirrhosis

Parenchymatous jaundice

Hemolytic jaundice

In 70's the scientists determined that the cause of severe jaundice in newborns was the impairment of connection of bilirubin in hepatocytes. What substance is used for the formation of conjugate?

Glucuronic acid

Pyruvic acid

Uric acid

Sulfuric acid

Lactic acid

A man aged 38 with icteric skin has anemia, enlarged spleen, hyperbilirubinemia, urobilinuria, hypercholic stool. What condition are these changes typical for?

Pre-hepatic jaundice

Post-hepatic jaundice

Hepatocellular jaundice

Gilbert syndrome

Syndrome of hepatic insufficiency

It's determined that a patient with jaundice has increased amount of total bilirubin instead of indirect one (free) in blood plasma, high content of stercobilin in stool and urine, the level of direct (connected) bilirubin in blood plasma is normal. What kind of jaundice is it?

Hemolytic

Mechanical

Jaundice of the newborn (icterus neonatorum)

Parenchymatous (hepatocellular)

Gilbert's disease

In inflammatory process colloidal properties of bile are impaired in gall bladder and this results in the formation of gall stones. What substance crystallization is the main cause of the formation?

Cholesterol

Urate

Chloride

Oxalate

Phosphate

After an accident a completely crashed man's liver was removed. What disorders do of hepatic absence may cause death during the first hours after operation?

Hypoglycemia

Intoxication

Fall of BP

Sharp ascites

Hemophilia and hemorrhage

Isoosmotic hyperhydration has developed in a patient with hepatocirrhosis. What is the leading mechanism of dyshidria development?

Secondary aldosteronism

Cardio-vascular insufficiency

Growth of wall capillary permeability

Rushyer-Petrovsky reflex

Hypoproteinemia

On the background of pain in the right hypochondrium and yellowness 'a patient with hepatic cirrhosis has constant dyspeptic disorders in a kind of bitter taste in the mouth, feeling of heaviness in epigastric area, nausea, unstable stool, steatorrhea. What is the main cause of the described disorders?

Hypocholia and intoxication

Hypoglycemia

Increase of stercobilin

Hyperbilirubinemia

Hypoproteinemia

In a severe course of viral hepatitis, a patient has developed adynamia, sleepiness at day time and insomnia at night, inadequate behavior (delirious ideas). There is fetor hepaticus, Kussmaul's respiration. What kind of metabolism impairment causes these symptoms?

Nitrogenous metabolism

Carbohydrate metabolism and hypoglycemia

Water and salt metabolism and hyperhydration

Fat metabolism

Pigmental metabolism and hyperbilirubinemia

There is increase of indole amount and decrease of indican 1 in the patient's urine. This indicate the impairment of

Detoxication function of liver

Filtering function of kidneys

Reabsorptive function of kidney

Albumin synthetic function of liver

Secretory function of pancreas

Increase of direct and indirect bilirubin is determined in blood of a patient with marked yellowness of sclerae and skin. There is great amount of bilirubin and urobilin in the urine, traces of stercobilin, decrease of stercobilin in stool. Define pathogenic type of jaundice in a patient.

Parenchymatous

Hemolytic

Mechanical

By-pass

Transmissible

A patient admitted to the hospital has clearly marked widened subcutaneous veins in the area of umbilicus ("the head of medusa"). Which of the large venous vessels has the impaired passage?

V. porta

V. renalis

V. iliaca inferior

V. mesenterica superior

V. mesenterica inferior

In coprologic investigation it is determined that stool is colorless; there are drops of neutral fat in it. The most possible case of this is impairment of:

Entering the bile into intestine

Secretion of intestine juice

Acidity of gastric juice

Processes of absorption in the intestine

Secretion of pancreatic juice

A patient had nausea and malaise after taking fatty foodstuffs. Sings of steatorrhea developed in this patient some time later.

Content of cholesterol in patient's blood is 9.2 mmol/L. This condition results from deficiency of:

Bile acids

Chylomicrons

Triglycerides

Phospholipids

Lipase

Low level of albumins and fibrinogen were revealed in the patient's blood. The decreased activity of what hepatocyte organelles cause this phenomenon?

Granular endoplasmic network

Agranular endoplasmic network

Mitochondria

Golgi complex

Lysosomes.

A patient was admitted into a clinic with signs of acute alcohol poisoning. What changes of carbohydrate metabolism are typical for this condition?

The rate of gluconeogenesis decreases in the liver.

Gluconeogenesis increases in the liver

Glycogen decomposition increases in the liver

Aerobic decomposition of glucose increases in the muscles

Anaerobic decomposition of glucose predominates in the muscles.

A man aged 54 was admitted into the clinic with complaints of pains in the right hypochondrium vomiting with blood.

Objectively: enlargement of hepatic size, varicose of esophagus and stomach, bleeding from them. The functional disorder of what vessel took place?

Vena porta

Vena hepatica

Vena cave superior

Aorta abdominalis

Vena cava inferior

The development of acute pancreatitis in a patient is accompanied by the impairment of permeability of common bile duct. What pathologic process may this result in?

Mechanical jaundice

Hemolytic jaundice

Parenchymatous jaundice

Hepatic coma

Portal hypertension.

Which of the factors plays the leading role in the development of encephalopathy in hepatic insufficiency?

Increase of concentration of toxic substances in the blood

Hyperaldosteronism

Hyperbilirubinemia

Hypofibrinogenemia

Hypoproteinemia

A patient has a diagnosis of ascites. There are no edemas in the other parts of the body. There are large vessels of cyanotic color on the abdomen. What pathology has this patient?

Portal hypertension

Essential hypertension

Hypertension of pulmonary circulation

Chronic circulatory insufficiency

Hepatic hypertension

Arterial hypertension may develop in a case of hepatic insufficiency. Which of these factors causes the increase of arterial pressure in such cases?

Aldosterone

Adrenaline

Renin

Noradrenalin

Angiotensin II

A patient aged 25 is ill with jaundice, his skin has got yellow and green color, there's skin itch, hypocholic stool throbbing gall bladder. What is the origin of jaundice?

Obturative genesis

Serum hepatitis

Hepatic cirrhosis

Leptospirosis

Post-transfusion

A patient complains of general weakness, breathlessness. Decrease of BP, ascites, widening of superficial veins of anterior abdominal wall, splenomegaly were established in this patient. What impairment of hemodynamic has this patient?

Portal hypertension syndrome

Left ventricular failure

Right ventricular failure

Collapse

Arterial hypotension.

A patient with jaundice complains of erythrism, headache, and insomnia. Objectively: pulse-54 beats/min. BP- 90/60 mmHg. Coagulation of blood decreases. There are traces scratching on skin. The action of what component causes these symptoms?

Bile acid

Bilirubin

Cholesterol

Bile pigment

Fatty acid

A patient was admitted to the hospital with complaints of dyspeptic disorders, melena, hemorrhoidal bleeding. Extensions of the vessels on the anterior abdominal wall in combination with the enlargement of size of the abdomen were revealed on examination of this patient. What pathology of gastrointestinal tract shows these symptoms?

Portal hypertension

Ulcerous disease

Intestinal autointoxication

Colitis

Enteritis.

Yellow color of the skin and the sclera, dark urine appeared in a patient after fungus poisoning. What pigment causes the color of urine in the patient with hemolytic jaundice?

Stercobilin

Biliverdin

Verdoglobin

Unconjugated bilirubin

Monoglucoronide bilirubin

A female patient with chronic hepatitis complains of increase sensitivity to barbiturates which she used previously without any symptoms of intoxication. The disorder of what hepatic jaundice is responsible for this state?

Metabolic

Bile formation

Hemodynamic

Hemopoietic

Phagocytotic

Marked jaundice appeared in a patient 3 months later after the operation on his upper jaw. What pathological process may this patient have?

Hepatic jaundice

Pre-hepatic jaundice

Hereditary hemolytic jaundice

Post-hepatic jaundice

Cholecystitis

A female patient aged 45 was admitted to a hospital with complains of sudden pain in the abdominal cavity, increase of temperature, and leukocytosis. Which of factors caused these changes in the woman's condition?

Gall stones

Bacteria

Mechanical energy

Acids

Viruses

In a 38-year-old patient, who endued viral hepatitis C and is abusing alcohol, symptoms of hepatic cirrhosis with ascites and edemas on lower extremities developed. What changes in blood composition underlies edema development?

Hypoalbuminemia

Hypoglycemia

Hypoglobulinemia

Hypokalemia

Hypocholesterolemia

A patient has severe nephropathy with a massive edematous syndrome. which complicated bronchiectatic diseases. Laboratory investigations show massive proteinuria, cylindruria considerable decrease of protein content in the blood serum, hyperlipidemia, hypokalemia and other deviations. What is the main link in the pathogenesis of the patient's edemas

Decrease of oncotic blood pressure.

Increase of extracellular fluid pressure

Increase of hydrostatic blood pressure

Blockade of lymph drainage

Hyperpermeability of microvessels

A patient with renal insufficiency has a disorder of hemopoie synthesis produced in the kidneys What formed blood elements development is impaired?

Erythrocytes

Granulocytes

Thrombocytes

B lymphocytes

T-lymphocytes

The narrowing of afferent glomerular renal arteriole caused the decrease of urination. The cause of this s a decrease of:

Effective filtration pressure

Reabsorption of glucose

Reabsorption of ions

Reabsorption of urea

Reabsorption of water

A man aged 32 has been ill with chronic glomerulonephritis for 4 years. He was hospitalized with the Signs of anasarea. AP - 185/105 mm. Hg. Blood analysis shows: Hb ~ 110gm/l; erythrocytes 2.6x10/1; leucocytes. 9.5x10/1 VI: residual nitrogen-32 mmol/l; total protein-50 gm/l. What change points to glomerulonephritis with nephrotic syndrome?

Hypoproteinenia

Anemia

Arterial hupertension

Hyperzotemia

Leukocytosis

Sharp decrease in sodium content in the blood serum was revealed in a patient with renal insufficiency. There are pale crumby edemas of the face manifesting in the morning. What substance composing intercellular matrix comes from blood bed? Hyaluronic acid

Collagen

Elastin

Procollogen

Fibronectin

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Protein with high molecular mass and lixiviated erythrocytes

Protein only with low molecular weight (up to 40000)

Increased excretion of sodium

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After poisoning by salts of heavy metals a patient has developed nongaseous acidosis, urine pH = 6.0 glucosuria without hyper glycemia, polyuria, latriu esis. Which of the structures is damaged?

Nephron tubules

B-cells of Lanhergans islets

Nephron glomeruli

Nuclei of hypothalamus

Adrenal cortex

A patient age 48 with fibro-cavemous tuberculosis complains of general weakness decrease of diurnal urination, edemas the ltrauma and extremities, increase of AP up to 180/90 mm. Hg Urinalysis shows increase of protein ya e and granular cylinder erythrocytes. A month later he died from renal insufficiency. Enlargement of the heart and large "fatty kidneys were revealed at autopsy (weight of kidneys is 240.0 gm -260.0 gin). What disease was fibro-cavernous tuberculosis of the lungs complicated by? Amyloidosis

Glomerulonephritis

Nephrotic syndrome

Pyelonephritis

Nephrosclerosis

A patient with chronic glomerulonephritis has edemas, AP-210/100 mmHg, and the rate of heart beats- 85 per minute. The borders of the heart are dilated. What is the leading mechanism in the development of arterial hypertension?

Activation of renin angiotensin -aldosteron system

Increase of sympathetic-adrenal systen activity

Hyperfunction of the heart

Increase of circulatory blood volume

Increase of vasopresin discharge

The presence of glucose in the urine in its normal concentration in the blood serum was determined in a patient aged 18 on laboratory examination. The most possible cause of this is the impairment of

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Glonnerular filtration

Tubular secretion

Secretion of the glucocorticoids

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In a week and a half after a severe streptococcal tonsillitis a patient aged 24 developed edematous face, increased arterial pressure, hematuria, and protein of 1.2 g/L His blood analysis shows antistrertococcal bodies and decrease of complement components. In the microvessels of what structures is the most possible localization of immune complex deposits which caused the development of nephropathy:

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Proximal tubules

Descendent tubules

Henle's loop

Pyramids

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Epithelium of parietal layer of glomerulus capsule

Epithelium of thin tubules

Epithelium of distal tubules

Epithelium of Henle's loop

Proteinuria (5g/l) due to low molecular weight proteins and hematuria with lixiviated erythocytes were revealed in patient's urinalysis. What renal function disorder do these findings point out?

Increase in glomerular permeability

Increase in tubular secretion

Increase in tubular excretion

Decrease in tubular reabsorption Extrarenal disorders

A patient with chronic glomerulonephritis has symptoms of anemia. What causes these symptoms?

Decrease in erythropoietin synthesis

Less of erythrocytes in urine

Increased destruction of normal erythrocytes

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Arterial hypertension

Hyperazotomia

Secondary aldosteronism

Hematuria

Poteinemia

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Proteinuria

A patient with diabetes mellitus has developed chronic renal failure with the development of uremia the rate of glomerular filtration of 8 ml/min. What is the mainly possible mechanism of decrease in glomerular filtration rate and the development of chronic renal failure in this patient?

Decrease of the number of working nephron

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Occlusion of tubular lumen of nephron by hyaline cylinders

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Hypoosmolan hypohydration

Hyperosmolar hypolhydration

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Bilirubin

Urea

Cystine

Cholesterol

What hormone increased secretion is caused by activation of renin-angiotensin system in renal hypoxia? Aldosteron

Hydrocoitisone Thyroxin Dnsulin Parathormone.
A man as decreased urination, hypernatrenia. bypokalen a What hormone hypersecretion is the cause of such changes? Aldosterone Vasopressin Atri natriuuretic factor Parathormone Adrenalin
A patient with acute renal insufficiency developed anuria (diurnal ation 50 ml). Which of the bellow-mentioned mechanisms is the main one in its development? Decrease of glomerular filtration Impairment of renal blood circulation Increase of water reabsorption Increase of sodium reabsorption Difficulty of urine outflow
A patient with chronic glomerulonephritis as vegetation of collagenic fibers in interstitium near tubules in which reabsorption of sodium ions decreases. What underlies these changes in reabsorption of sodium ions io tubules? Inhibition of energy metabolism Activation of glycolysis Inhibition of lipid peroxidation Stabilization of lysosomal membranes Increase of antioxidative activity
The damage of proximal portion of nephron with decrease of sodium ion reabsorption was observed in a patient after poisoning by corrosive sublimate. How much maximally may sodium ions be reabsorbed in this part of nephron? 80% 65% 50% 35% 20%
The damage of proximal portion of nephron was held in a ratient in 24 hours later after the poisoning by corrosive s What electrolyte reabsorption is impaired in this pathology? lons of potassium lons of chloride lons of sodium lons of calcium lons of magnesium
A patient aged 35 complains of pain in the lumbar area, edema under eyes, and increased fatigability in usual physical loads. Protein was revealed in patient's urine (0.99gr/I). Patient's BP is -160/I10 mmHg What pathology has the patient? Nephritic syndrome Pyelitis Cystitis Acute renal failure Nephrotic syndrome
What pathological process is non-selective, massive proteinuria is characteristic for? Nephritic syndrome Urethritis Chronic renal failure Acute renal failure Nephrotic syndrome

What origin or protein is the most possible in selective proteinuria with intensity 12 grday? Suprarenal

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From urinary bladder

What pathological process is characterized by combination of massive proteinuria (25gr/day) with generalized edema?

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Impairment of filtration

Increase of reabsorption

Blocking of a work of a part of nephrons

Obturation of ureters

A man of aged 72 is ill with chronic glomerulonephritis. On examination following was determined: absence of appetite, vomiting, diarrhea, skin itching, anemia, the content of residual nitrogen in the blood is 45mm/l. The indicated signs are caused by:

Disturbance of nephron function

Increase of glomerular membrane permeability

Autoimmune damage of nephron function

Renal ischemia

Disturbance of concentrating mechanism

A patient of age 32 with acute glomerulonephritis, who did not follow regime of NaCl and water limitation, suddenly has lost his consciousness and convulsions appeared in him. His BP is 220/120 mmHg, he has mydriatic pupils and bradycardia. What complication has appeared in this patient?

Eclampsia

Acute heart failure

Hypertensive crisis

Renal coma

Epilepsy

A patient has severe nephropathy with a massive edematous syndrome. which complicated bronchiectatic diseases. Laboratory investigations show massive proteinuria, cylindruria considerable decrease of protein content in the blood serum, hyperlipidemia, hypokalemia and other deviations. What is the main link in the pathogenesis of the patient's edemas

Decrease of oncotic blood pressure.

Increase of extracellular fluid pressure

Increase of hydrostatic blood pressure

Blockade of lymph drainage

Hyperpermeability of microvessels

A patient with renal insufficiency has a disorder of hemopoie synthesis produced in the kidneys What formed blood elements development is impaired?

Erythrocytes

Granulocytes

Thrombocytes

B lymphocytes

T-lymphocytes

The narrowing of afferent glomerular renal arteriole caused the decrease of urination. The cause of this s a decrease of: Effective filtration pressure

Reabsorption of glucose Reabsorption of ions Reabsorption of urea Reabsorption of water

A man aged 32 has been ill with chronic glomerulonephritis for 4 years. He was hospitalized with the Signs of anasarea. AP - 185/105 mm. Hg. Blood analysis shows: Hb ~ 110gm/l; erythrocytes 2.6x10/1; leucocytes. 9.5x10/1 VI: residual nitrogen-32 mmol/l; total protein-50 gm/l. What change points to glomerulonephritis with nephrotic syndrome?

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Hypertensive crisis

Renal coma Epilepsy

On the diagnosis of myocardial infarction the main role belongs to enzymodiagnosis. The definition of content level in the blood of what enzyme is the most important during the first 2-4 hours after infarction?

Creatin phosphokinase

Aldolase

Lipoprotein lipase

Alanine aminotranspherase

Acetylcholinesterase

One of the most dangerous moments in pathogenesis of myocardial necrosis is the further increase of the zones of necrosis, dystrophy and ischemia. The important role in this belongs to the increase of the use of the oxygen by myocardium. What substance contributes to this process?

Catecholamine

Chlorine ion

Cholesterol

Acetylcholine

Adenosine

During the examination of blood for activity of AsAT and AlAT in the patient who complained of pain in the chest and in upper part of the abdomen, the following results were received: activity of AsAT 2 times higher than AlAT activity. What disease does the patient have?

Myocardial infarction

Acute infectious hepatitis

Acute pancreatitis

Chronic hepatitis

Cirrhosis of the liver

Clinical signs of developing pulmonary edema appeared in a patient with cardiac insufficiency of left ventricular type. Which of the pointed pathogenic mechanism is the primary in such pathology?

Congestive

Hydrodynamic

Colloid-osmotic

Lymphogenous

Membranogenous

A patient has cyanosis, increase of the liver, edema of the lower extremities due to the right ventricular insufficiency. What is the cause of the development of right ventricular failure?

Hypotension of pulmonary circulation

Cardiogenic cirrhosis of the liver.

Functional shunting in lungs

Hypercatecholaminemia

Increase of venous pressure

A woman, aged 25. complains of constant pain in the heart area, breathlessness on movement, and general malaise. She has pale and cold skin, acrocyanosis. Her pulse is 96/m in and her BP is 105/70 mmHg. Heart »border in her shifted 2 cm left. The first sound is weakened over the apex of heart; there is systolic murmur over the apex. Diagnosis is insufficiency of the mitral valve of the heart. What is the cause of the blood circulation failure?

Myocardial overload by the increased blood volume

Myocardial overload by the increased of resistance of blood outflow

Myocardial failure

Volume decreased of circulating blood

Volume increased of v vascular bed

A patient with acute myocardial infarction was being given 1500ml of different solutions intravenously during 8 hours, oxygen intranasally. Death occurs due to pulmonary edema. What was the cause of the pulmonary edema?

Overload of the left ventricle by the volume

Decrease of oncotic pressure due to hemodilution

Allergic reaction

Neurogenic reaction

Oxygen inhalation

Sharp marked pains in the substernal area that radiate to the left arm cannot be controlled by nitro-glycerine for 30 minutes. What changes developed in the patient's hearts?

Myocardial ischemia

Pathological myocardial hypertrophy Sharp increase of coronary blood flow' Mitral incompetence Inflammation of pericardium

The activity of what enzymes is it necessary to determine in pathology of cardiac muscle with diagnostic and prognostic aim?

Creatin kinase, transaminase, lactate dehydrogenase

Arginase, peptidase, phosphatase

Decarboxylase, decanidase. lactate dehydrogenase

Lysozyme, citratc synthatasc, succinate dehydrogenase

Neuronminasc, aldolase, hexakinasc.

A severe stress was caused in an experimental animal. Necrotic injuries of myocardium developed in this stage. What is the main cause in the pathogenesis of these injuries?

Insufficiency of coronary circulation

Increase of calcium content in cardiomyocytes

Decrease of adenosine triphosphoric acid synthesis in mitochondria

Changes in the work of Na'-K' pump

Decrease of adenosine triphosphoric acid activity of myosin

A patient male had a chronic disease of kidneys for 12 years. AP - 200/130mmllg Pulse 75 beats per min. The main factor that causes the increase of pressure in this case is the increase of:

Systemic peripheral resistance

Minute volume of the heart

Heart rate

Circulating volume of the blood

Venous recurrence.

A patient with mitral failure has an enlargement of the liver, edema of lower limbs. What is the leading mechanism of the development of cardiac edema?

Participation of renin-angiotensin-aldosteron system

Increase of venous recurrence

Increase of tissue drainage

Decrease of oncotic pressure

Decrease of transudation.

A patient with myocardial infarction has a mark paleness of skin, oliguria, AP 100/90 mm Hg, and pulse 100 bcats/min. What compensative mechanism maintains relative high level of AP?

Centralization of blood circulation

Hypokalemia

Hypoperfusion of the lungs

Increase of the level of vasodilators in blood

Secondary aldosteronism

In cardiac pathology homeometric mechanism of compensation in the work of the left ventricle takes place in:

Hypertension of systemic circulation.

Stenosis of atrioventricular foramen

Mitral incompetence

Aortic incompétence

Hypertension of pulmonary circulation

In cardiac pathology heterometric mechanism of compensation connected with overloading of left ventricle volume takes place in:

Aortic incompetence

Stenosis of atrioventricular foramen

Stenosis of aortic osteum

Hyper tension of pulmonary circulation

Hypertension of systemic circulation.

Sharp increase of AsAT activity was determined in the blood serum of a patient 12 hrs later after an acute attack of pain in the substernal area. Which of the pathogenesis is the most possible?

Myocardial infarction

Collagenosis

Diabetes mellitus

Virus hepatitis

Diabetes insipidus

Pressing pain in the heart area with irradiation to the left arm, neck and under the left shoulder blade suddenly appealed in a male patient aged 45. after considerable psycho-emotional exertion. His face became pale and covered with cold perspiration. Nitro glycerin relieved the attack of pain. What process in the patient?

Angina pectoris

Perforation of stomach ulcer

Psychogenetic shock

Myocardial infarction

Insult

In recreation of the arterial hypertension in a dog a thickness in the left ventricle wall increased 1.7 times in a month, but the circulating blood volume was not changed in comparison with the initial data. What stage of myocardial hypertrophy is observed in the animal?

Complete hypertrophy

Initial

Repair

Decompensation

Progressive cardiosclerosis

A patient excretes water from the organism less than lie uses it for 24 hours. What disease may lead to this state?

Cardiac insufficiency

Pancreatitis

Cystitis

Hepatitis

Infectious diseases

A patient who underwent myocardial infarction a month and a half ago had Dressier's syndrome with typical triad: pericarditis, pleurisy, and pneumonia. The cause of its development is:

Sensibilization of the organism by myocardial antigens

Decrease of resistance to infectious agents

Activation of saprophytic micro flora

Intoxication of the organism by necrotic products

Injection of myocardial enzymes in the blood

A patient with rheumatism had incompetence of the left atrioventricular foramen and decompensation of cardiac activity. The characteristic hemodynamic index of this state is:

Decrease of cardiac output.

Slowing down of blood flow

Decrease of arterial pressure

Increase of venous pressure

Widening of microcirculatory bed

Considerable increase of myocardial mass of left ventricle was determined in a patient with hypertension. It was due to:

Increase of cardiomyocyte volume

Increase in amount of cardiomyocytes

Enlargement of connective tissue

Retention of water in myocardium

Fat infiltration myocardium

A patient with aortic atherosclerosis has left ventricular hypertrophy as a compensatory phenomenon. Compensatory role of hypertrophy comes to:

Normalization of load on each cardiomyocyte.

Improvement of delivery of oxygen to myocardium

Activation of synthesis of macroergs in myocardium

Economical use of energy by cardiomyocytes

Increase of stroke volume of the blood

The signs of heart failure appeared in a man aged 56. during carrying out hard work, feelings of air shortage, heart beating, and general weakness. Objectively heart borders are dilated, the heart rate is 92 beats per rain and arterial pressure is 180/110 mm hg.

I These signs are due to:

Increase of peripheral resistance.

General hypoxia of an organism

Insufficiency of coronary circulation

Increase of diastolic filling

Neurotrophic disturbances

A patient aged 47 with mitral incompetence has the symptoms of cardiac insufficiency: breathlessness, cyanosis, oedema of lower limbs. Objectively: the borders of the heart are dilated, the heart rate is 104 beats per min, and arterial pressure is 125/85 mm hg. These symptoms are due to:

Increase of diastolic filling.

Increase of peripheral resistance

Autoallergic changes of myocardium

Insufficiency of coronary circulation

Neurotrophic disturbances

Dilution of the heart AP -155/100 mm hg the heart rate 95 beats per min was revealed in a patient aged 63 with hypertension during the examination. The most effective mechanism which will contribute to the normalization of AP is

Inhibition of catecholamine action.

Inhibition of aldosteron synthesis

Blocking of angiotensin synthesis'

Blocking of vasopressin action.

Administration of salt low diet

After suffered rheumastism a patient had aortic stenosis. Point out what mechanism of compensation takes place in the left ventricle

Homeometric

Heterometric

Systolic

Diastolic

Coronary

After suffered rheumatism a patient had aortic incompetence. Indicate what mechanism of compensation takes place in the left ventricle in this case:

Heterometric.

Homeometric

Systolic

Diastolic.

Coronary

A patient with acute myocardial infarction, which was caused by thrombosis of coronary arteries was treated with preparation urokinase that led to the development of reperfusion syndrome. Which or the mentioned syndromes is associated with reperfusion?

No-reflow

Dressler's

Chediak-Higashi

Morgagni-Adams-Stokes

Wolff-Parkinson-White

Which of the factors is the most frequent cause of formation of acquired valvular heart disease?

Rheumatism

Septic endocarditis

Syphilis

Atherosclerosis

Mechanical factor

The height of an adult is 100cm, in proportional constitution and normal mental development. What hormone insufficiency do the indicated signs characterize?

Growth hormone

Antidiuretic

Thyroxin

Mineralocorticoids

Gonadotropic hormone.

Under the influence of harmful ecological factors the normal formation of lysosomes is inhibited in thyrocytes. What stage of hormone production of thyroid gland will be impaired?

Reabsorption of colloids

Synthesis of colloid

Iodinisation of colloid

Synthesis of thyoglobulin

Proteolysis of phagoeynosed colloid from follicles.

Diabetes insipidus appeared in a patient after ab cerebral infarction with impairment of hypothalamus nuclei, What is the cause for increased urinntion in this patient?

Decrease of arterial pressure

Decrease of reabsorption of sodium

Acceleration of glomerular filtration

Decrease of water reabsorption.

Hyperglycemia

What hormone stimulates inclusion of calcium in osteoblasts of bone tissue in tooth?

Calcitonin

Insulin

Thyroxin

Parathormone

Hydrocortisone

A 10-year-old child has a height of 178 cm and weight of 64 kg. What endocrine gland disorder does this connected with?

Pituitary gland

Sexual glands

Adrenal glands

Parathyroid glands

Thyroid gland.

A patient with thyrotoxicosis has hypertherm does this and lass of weight. What kind of impairment connected to?

Ronction of fat synthesis

Lyses of adenosintriposphoric acid

Conjunction amidation and phosphorylation

Reactin of citric acid cycle

Reaction of beta-oxidation of fatty acid.

During an experiment on animals the nervous tracts leading to the crus of hypophysis were broken. That impaired the entrance of the fallowing hormones into the blood.

Adenohypophysis hormone

Hypophysis hormones

Vasopressin and oxytocin

Thyrotropic hormone

Adenocorticotropic hormone

A careless student suddenly meets his dean. What hormone concentration will be increased in student's blood more rapidly?

Thyroliberine

Somatotropin

Hydrocortisone

Corticotropin

Adrenalin

A women aged 44 complains of general malaise, pain in the heart area, and considerable increase of body weight. At examination of this patient following symptoms are revealed: lunar face, hirsutism, BP 165/100 mmHg, height is 164 cm, weight is 103kg, the adipose deposits mainly on the neck, shoulders, abdomen. What is the main pathogenic mechanism of the woman's obesity?

Decrease of thyroid hormone production

Decrease of glycogen production

Increase of glucocorticoid production

Increase of insulin production

Increase of minerelocorticoid production.

A child has a time disturbance of teeth eruption, enamel anomalies and its lips and tongue are enlarged. What hormone deficiency causes these changes?

Parathormone

Thyroxin

Thyrocalcitonin

Insulin

Somatotropin.

At clinical examination of a woman it was determined increase of basal metabolism rate by 40%, increased perspiration, tachycardia, and leanness. What endocrine gland functions are impaired and what direction in?

Sexual glands, hypofunction

Cortical substance of adrenal glands, hyperfunction

Medulla of adrenal glands, hyperfunction

Thyroid gland, hyperfunction Pancreatic gland, hyperfunction

A young man aged 17 has the signs of retention of asthenic, his secondary sexual characters are is absent in this patient's developed, sex chromatin cells. At the age of 4 he endured epidemic parotitis. What was the cause of hypogonodism?

Deficiency of gonadoliberine

Deficiency of gonadotropin

Cryptorchism

Orchitis

Chromosomal anomalies (XXY)

A patient aged 20 complains of polydipsia and abundant urination (up to 10 liters for of 24 hrs) concentration glucose in his blood is normal; in his glucose is absent. What hormone absence may cause such clinical picture?

Triiodothyronine

Oxytocin

Vasopressin

Insulin

Hydrocortisone

Substances which imitate morphine effects but in CNS may be used for which are analgesia. Indicate them:

Oxytocin

Somatotropin

Beta-endorphin

Vasopressin

Calcitonin

Dilated pupils, dryness of mucous membranes, accelerated heart rate, constipation, and tremor are observed in some people during emotional exertion. What system activation will lead to such changes in the organism?

Somatic nervous system

Pituitary-adrenal system

Sympathetic nervous system

Sympathoadrenal system

Parasympathetic nervous system

In ancient India those people who were suspected in committing crimes were given swallow a handful of dry rice. Criminals couldn't swallow rice due to decreased salivation (oligosalivation) caused by:

Decrease of blood supply of salivary glands

Activation of sympathoadrenal system

Activation of parasympathetic nucleus of glossopharyngeal nerve

Inhibition of sympathoadrenal system

Activation of parasympathetic nucleus of facial nerve

A patient aged 23 complains of headache, changes of his appearance (increase of size of feet, fingers, features of the face), hoarseness of the voice worsening of the memory. The disease has begun 3 years ago without any causes Increase of superciliarry arches, nose, and tongue were found during physical examination of this patient; the blood was normal; the urinalysis is out of changes. What is the cause of such condition?

Insufficiency of aldosterone

Excessive production of corticosteroids

Excessive production of somatotropin

Insufficiency of glucagon

Insufficiency of thyroxin

Adrenalin is used to prolong Novocain action in infiltration anesthesia. What adrenalin action is this effect connected with?

Potentiation of Novocain action at the level of CNS

Inhibition of function of nerve ending and conductors

Dilatation of vessels

Constriction of vessels

Inhibition of tissue esterases

A patient aged 80 complains of increased appetite, thirst, excretion of large amount of urine, and worsening of general condition after taking sweet food. What disease is it?

Diabetes mellitus

Hypercorticoidism

Hyperthyroidism

Hypothyroidism

Diabetes insipidus

Persistent patient with hyperglycemia developed in a of Cushing syndrome influenceof excessive amount of glucocorticoids.

Whats is the mechanism of hyperglycemia in this case?

Decrease of hexokinase activation

Activation of glycogenolysis at the liver

Activation of gluconeogenesis

Activation of insulinaze of the liver

Increase of absorption of glucose in intestine

A man aged 38 is in stress state due to industrial conflict. Which of below mentioned hormones participate in starting stress reaction of the organism?

Glucagon

Adrenalin

ACTH

Hydrocortisone

Thyroxin

A woman aged 28 addressed to a doctor a month later after delivery with complaints of decreased breast milk formation. What hormone insufficiency caused this condition?

Prolactin

Insulin

ACTH

Glucagon

GH

While examining a patient a doctor suspected Cushing's syndrome. What substance determination in patient's blood will prove doctor's supposition?

Cortisol

Tocopherol

Adrenalin

Cholesterol

Retinol

The attacks of convulsions appeared in a patient after resection of thyroid gland. What preparation must be administered in this case?

Thyroxin

Somatotropin

Insulin

Prednisolon

Parathyroidin

A dog with endocrine pathology had decreased oxygen usage in the state of rest, decreased body temperature, and decrease of glucose tolerance. What hormone insufficiency may explain the discovered changes?

Adrenocorticotropic hormone

Growth hormone

Thyroxin

Gonadotropin

Insulin

A patient aged 50 complains of thirst, he drink much water, has marked polyuria. His blood glucose 4,8 mmol/L, glucose and acetone bodies are absent in the urine; urine is colourless, its specific gravity 1.002-1.004. What is the cause of polyuria?

Aldosteonism

Insufficiency of ADH

Hypothyrosis

Insulin insufficiency

Thyrotoxicosis

A patient aged 40 was hospitalized with complaints of general malaise, convulsions of upper and lower extremities, his BP 160/100 mm Hg. The results of laboratory examination of him: blood glucose 6.5 mmol/L, calcium 2 mmol/L, phosphates 1 mmol/L, sodium-160 mmol/L. Urination 700 ml for 24 hours. What pathology causes such state?

Rickets

Hyperaldosteronism

Hypoaldosteronism

Hyperparathyroidism

Thyrotoxycosis

Pilosis by male type and increase of muscular mass began appearing in a boy of 5 years old who had developed previously without declination from the age norms. At examination of the patient marked secondary male sexual signs were revealed, but the size of his testes corresponds to his age. What is the cause of precocious puberty?

Androgen producing adrenal tumor

Hormone producing testis tumor

Increase of gonadotropin production

Increase of adrenocorticotropin production

Increase of gonadoliberin production

Why must a patient, who has taken prednisolone for rheumatoid arthritis for a long time, avoid contacts with infectious patients? of the development of secondary immunodeficiency

Because of risk of exacerbation of arthritis

Because of risk of thromboembolic complications development

Because of the development of lymphopenia

Because of the blockade of interferon formation

Liquidator of an accident at Chernobyl nuclear power plant began complaining of increased excitability, nervousness, heartbeat, decrease of body weight, constant weakness, body tremor, feeling of fever, bad heat endurance. What gland hyperfunction may be the cause of such state?

Thyroid gland

Adenohypophysis

Adrenal gland

Medulla of adrenal gland

Parathyroid gland

Muscular weakness, adynamia, decrease of body temperature, hypoglycemia, developed in a dog after two-sided resection of adrenal gland. What other manifestation of adrenal insufficiency may be noted?

Arterial hypotension

Lymphopenia

Increase of glycogen synthesis

Hypernatremia

Hypokalemia

A woman complains of increased irritability, perspiration, weakness, loss of body weight, tremor of extremities, increased heartbeat rate, and exophthalmia. What metabolic impairment in the organism accompanies this disease?

Increase of basal metabolism

Increase of adenosine triphosphoric acid synthesis

Decrease of organism sensitivity to hypoxia

Weakening of phospholipase activation

Decrease of cholesterol lysis

A patient who suffered from severe thyrotoxicosis had been operated on for strumectomy after that weakness, sensitivity to cold, increase of body weight, paleness and dryness of skin developed. What are the other manifestations of hypothyrosis? Inhibition of CNS activity

Tachycardia

Increase of basal metabolism

Increase of intestinal peristalsis

Decrease of tolerance to carbohydrates

In case of hypercortisolism – Cushing's disease – the following changes in the organism take place:

Hyperglycemia

Development of cachexia

Impoverishment of the liver with glycogen

Hypotension

Lymphocytosis

A young man with suspicion on narcotic poisoning was admitted into neurological department. Which of the disorders of external respiration can be expected?

Alveolar hypoventilation

Asphyxia

Alveolar hyperventilation

Kussmal respiration

Biot's Respiration

In pathogenesis of which types of respiration the main link is the fall of excitability of respiratory centre to carbon dioxide due to oxygen

starvation of this centre?
Accelerated and deep breathing
Expiratory dyspnoea
Periodic respiration
Inspiratory dyspnoea
Combined dyspnoea

As a result of casualty the obturation of the lung trachea occurred. Which stage of respiration will be impaired first? Lung ventilation

Tissue respiration

Exchange of gases in the lungs

Exchange of gases in tissues

transport of oxygen and carbon dioxide

The functional state of respiratory system was examined in a patient with emphysema. What is more characteristic for this state?

Increase of tidal volume

Increase of vital volume of the lungs

Increase of inspiratory reserve volume

Decrease of total volume of the lungs

Decrease of inspiratory reserve volume

The syndrome of respiratory insufficiency is often observed in premature born children. What is the main cause of this?

Immaturity of lung alveoli due to deficiency of surfactant

Swallowing of amniotic water

Intrauterine hypercapnia

Imperfection of the nervous regulation of the respiratory act

Intrauterine asphyxia

Paleness of the skin, accelerated superficial respiration is observed in a newborn. Numerous diffused atelectasis are revealed at X-ray examination. What is the most possible cause of this condition?

Surfactant deficiency

Pneumothorax

Hydrothorax

Tuberculosis

Bronchial asthma

A patient who was at a resuscitation department with skull injury suddenly developed convulsions on the background of regaining consciousness, and short arrest of breathing was changed by solitary sighs with calming down character. What types of respiration appeared in the patient?

Gasping respiration

Cheyne-Stokes respiration

Biot s respiration

Kussmaul respiration

Apnoeystic respiration

During meal a child breathe in a seed. What respiratory changes will develop in the child?

At first inspiratory dyspnoea, then expiratory one

First expiratory dyspnoea, then inspiratory one

At first arrest of breathing, then expiratory dyspnoea

Expiratory dyspnoea, then Cheyne-Stokes respiration

Inspiratory dyspnoea, then Biofs respiration

A partial respiratory insufficiency developed in a patient due to a chronic impairment of the organs of respiratory system. What is a characteristic sign of partial respiratory insufficiency?

Hypoxemia without hypercapnia

Hypoxemia and hypercapnia

Hypoxemia and decrease of alveolar ventilation

Decrease of alveolar ventilation and hypercapnia

Hypoxemia and gas acidosis

When developing of pulmonary emphysema in a patient the following is notified:

Increase of functional "dead space".

Inspiratory dyspnoea

Cardiac insufficiency (left ventricular type)

Decrease of resistance to the airflow in the respiratory tract

Decrease of functional "dead space"

Decrease of the passage at the level of middle and small bronchi is observed in a patient. What process will be the leading in the development of respiratory insufficiency?

Hypoventilation
Disturbance of diffusion
Hyperperfusion
Hypoperfusion

Hyperventilation

In the decrease of the middle and small bronchial passages in a patient the following is observed:

Decrease of pO2 and increase of pCO2 in the alveolar air

Development of gas alkalosis

Decrease of pressure in pulmonary circulation

Development of inspiratory dyspnoea

Hypocapnia

In obstructive type of respiratory disturbances in a patient it will be determined

Expiratory dyspnoea

Increase in forced vital volume of the lungs

Increase in vital volume of the lungs

Decrease of the tidal volume

Decrease of the total volume of the lungs

In restrictive type of respiratory disturbances in a patient the following is revealed

Decrease of tidal volume of the lungs

Decrease of rate and increase of depth of

respiration

Expiratory dyspnoea

Increase of vital capacity of the lungs

Increase ol tidal volume of the lungs

Gas alkolosis is revealed in lie patient is blood. What process impairment is connected with tin. development?

Hyperventilation

Impairment of diffusion

Hyperperfusion

Hypoventilation

Hypoperfusion

The application of oxygen did not eliminate hypoxemia in a patient with partial respiratory insufficiency. What is the mechanism of respiratory insufficiency?'

Disturbance of diffusion

Hyperperfusion (functional shunt)

Hypoventilation

Hyperperfusion

(anatomical

shunt)

Hyperventilation

Patient aged 62 was admitted into neurological department due lo cerebral haemorrhage. Grave condition. Incease of depth and rate of respiration and then its decrease and apnoea is observed. What type of respiration appeared in the patient?

Cheyne-Stokes respiration

Apneustic respiration

Kussmaul respiration

Gasping respiration

Biot's respiration

After Typhno's test index decreased to 30% in the patient. The development of what pathological process in the organs of respiratory systems does it indicate?

Obstructive bronchitis

Lobular pneumonia

Pneumothorax

Tuberculous pleurisy

Pneumosclcrosis

A patient has developed athelectasis, which was accompanied by alveolar collapse.

What contributes to this?

Surfactant

deficiency

Hyperventilation

Spasm of lung vessels

Arterial

hypertension

Respiratory acidosis

A patient has the pathology of the lung with the disturbance of external respiration and development of hypercapnia and hypoxia. How many times is the ability of CO2 to diffusion through alveolar-capillary membrane higher than the same one of oxygen?

25

5

10

15

20

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Thyroid gland

Adenohypophys

Adrenal gland

Medulla of adrenal gland

Parathyroid gland

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Hypernatriemia
Lymphopenia
Arterial hypotension
Increase of glycogen synthes
Hypokalemia

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Decrease of organism sensitivity to hypoxia

Weakening of phospholipase activation

Decrease of cholesterol lysis

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Hyperglycemia

Development of cachexia

Impoverishment of the liver with glycogen

Hypotension

Lymphocytosis

A patient was admitted to the hospital with complaints of loss of weight, quick fatigability darkening of skin. His heart sounds are dull. What are the other manifestations of adrenal insufficiency

Lymphopenia

Adynamia.

Arterial hypertension

Increase of minute blood volume Increased appetite

A patient admitted to the hospital complains of quick fatigability. loss of weight, hyperpigmentation of the skin. Her heart sounds are dull. She has pulse rate 96 beats per minute and BP 90/50 Hg. What metabolic impairments observed are in hypocortisolism?

Increase of glycogen synthesis

Hyperkalemia

Hypernatremia

Hyperhydration

Hypoglycemia

The manifestations of hypoparathyrosis developed in a patient after strumectomy.

What changes in the organism are observed in this case

Resorption of bone tissue

Hypophosphatemia

Acidosis

Hypocalcaemia

Decrease of neuromuscular excitability

Small height, disproportional development of the body, and insufficient mental development were found in a boy of 10 during examination. What hormone deficiency caused these changes

Adenocorticotropic hormone

Thyroxin

Parathormone

Thyrocalcitonin

Oxytocin

With the help of indirect calorimetrical t was determined that the basal measurement metabolism of the patient was 40% lower than the proper one. What endocrine gland hypofunction is the cause of described changes?

Thyroid gland

Adrenal glands

Epiphysis

Thymus

Pancrea

After suffered sepsis a bronze color of the skin typical for Addison's disease appeared in a woman aged 27 Hyperpigmentation occurs due to the increased secretion of

Growth hormone

Melanocytstimulating hormone

Adrenocorticotropic hormone

B-lipotropic hormone Thyrotropic hormone

A patient with rheumatic arthritis was given hydrocortisone for a long period of time. He developed hyperglycemia, polyuria, glycosuria, and thirst. These complications after treatment develop due to the activation of the process of Glycogenolysis

Gluconeogenesis

Glycogenesis

Glycolysis

Lipolysis

Fibrillary muscular tics of arms, legs and face appeared in a woman aged 46 after the operation on thyroid gland. These disorders may be eliminated by injection of

Thyroxin

Parathyroidin

Triiodthyronine

Thyrotropin

Calcitonin

Atrophy of the testis developed in an athlete who used androgen hormones. systemically This phenomenon is due to the inhibition of secretion of

Corticoliberine

Gonadotropic hormone

Prolactoliberin

Gomadoliberine

Testosterone

During the examination of the patient a doctor found out Cushing's diseases ase that is characterized by obesity. It is connected with:

impairment of ventromedial nuclei of hypothalamus

Excessive use of flats with meal

Inhibition of adrenalin synthesis by adrenal glands

Production of excessive amount of glycocoticoids

Hereditary tendency to hyperlipemia

A patient with diffuse toxic goiter has marked exophthalmia. The appearance of exophthalmia is explained in this pathology by:

Presence of immunoglobulins in the blood

Antibody circulation against thyroglobulin

Production of exophthalmia factor by hypophysis

Increase of adrenorecpetor sensitivity to catecholamines

Pathogenic of thyroid action prostaglandins

A patient with myxedema came to a doctor. Her face was puffy with poor facial expression; she had thickened nose and lips. These signs can be explained by Increased permeability of capillary walls

Free filtration of sodium in glomeruli

Accumulation of hydrophilic mucous substances

Impairment of sensitivity of volumo- and osmoreceptor

Increase of sodium reapsorption in tubules (canaliculi)

After physic with exertion patient pheochromocytoma complains of tachycardia increased arterial pressure. and sharp pain In epigastric area. These attacks may be explained by

Release of norepinephrine by sympathetic nerves Massive release of catecholamines by adrenal glands Activation of hypothalamus vegetative nuclei Increase of thyroid hormone secretion Increased synthesis of adrenocorticotrophic hormone

Excessive secretion of a certain hormone was observed in a patient with pheochromocytoma -a tumor, which appears from the medulla of adrenal glands.

How is this hormone called?

Adrenalin

Glucagon

Insulin

Thyroxin

Somatotropin

Adenoma, which grows from the cells of glomerular zone of cortex and is source of excessive formation of aldosterone was found in a patient. This resulted in a development of primary hyperaldosteronism or Conn's disease. What electrolyte exchange does this hormone influence?

Chlorine ion

Ferric ion

Calcium ion

Magnesium ion

Sodium ion

Weakness, thirst, sharp increase of neuromuscular excitability with the development of parathyroid tetany were observed in a dog 1-2 days later after resection of thyroid glands. What disturbance of electrolyte exchange takes place in this condition?

Hypermagnemia

Hypercalcaemia

Hypocalcaemia

Hypomagnemia

Hyponatremia

Removal of cancer tumor of the testis in a patient before the period of sexual maturity resulted in the development was accompanied by the deficiency of the production of:

Estrogens

Androgens

Kinines

Prostaglandins

Cytokines

Male patient aged 55 had an increase of pituitary gland dimensions and hyperplasia of adrenal At cortex. examination of the patient: BP-19090 mm Hg, content of blood glucose is 20 mmolL: there are glucosuria, obesity and histurism. What pathology are these changes typical for?

Cushing's disease

Adipose-genital dystrophy

Barraker-Simmond disease

Cushing's syndrome

Addison's disease

A patient aged 29 had acute massive blood loss during delivery. Then the following changes developed: acute loss of weight, atrophy of skeletal muscles, thinning of skin decrease of body temperature. hypotension. and hypoglycemia. What pathology of pituitary gland is the most possible in this case?

Parhon's syndrome

Sheehan's disease

Diabetes insipidus

Adipose-genital dystrophy

Pituitary dwarfism

A 28-years-old patient complains of flaccidity, quick mental and physical fatigue, and dyspeptic disorders. During the examination following was found out positive TB tests, hypoglycemia, BP 90/60 mm Hg hyponatremia, skin pigmentation. What disease of adrenal glands underlies observed symptoms?

Conn's syndrom

Cushing's syndrom

Addison's disease

Acute insufficiency of adrenal cortex

Hypofunction of medullar layer of adrenal glands

Which of the signs that develops in hyperthyrosis is the most important for making diagnosis?

Subfebrile temperature

Tachycardia

Increase of basal metabolism Increase excitability Disorder of sleep

A patient aged 4I complains of weakness, sweating, fever, tremor of hands, BP-160/90 mm Hg. Diffuse goiter was diagnosed (Basedow'sdiseas). What is the main mechanism of impairment of the function of cardio- vascular system in this disease Increase of tonus of sympathetic nervous system tonus

Decrease of tonus of sympathetic nervous system tonus

Auto immune reactions

Increase of catabolism

Hyperthermia

A girl aged 5 had the symptoms of premature sexual development, menses, growth of mammary gland, adipose deposits in the field of pelvis and femur. The most possible cause of premature sexual development is:

Hyperplasia of adrenal glands Adrenal adenoma Hypopituitarism Polycystic ovary syndrome Hormone-active tumor of ovaries

Conn's syndrome was diagnosed i a patient who complained of muscular weakness, increased urination (at night), and increased arterial blood pressure. What typical for this syndrome

Increase of renin increase of aldosterone, and increase of potassium Decrease of renin. increase of aldosterone and decrease of potassium Decrease of renin, increase of aldosterone, and decrease of potassium Decrease of renin, decrease of aldosterone. and decrease of potassium Increase of renin, decrease of aldosterone. and increase of potassium

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Parathormone
Thyrocalcitonin
Adrenocorticotropic hormone
Oxytocin

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Adrenal glands

Epiphysis Thymus Pancreas

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Thyroxin

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Increase of sodium reabsorption in tubules (canaliculi)

Increased permeability of capillary walls.

Weakness, thirst, sharp increase of neuromuscular excitability with the development of parathyroid tetany were observed in a dog 1-2 days later after resection of thyroid glands. What disturbance of electrolyte exchange takes place in this condition?

Hypocalcemia

Hypercalcemia

Hypomagnemia

Hypermagnemia

Hyponatremia

A man constantly lives in mountains. What changes of blood test indices can found in him?

Increased red blood cells number

Decreased reticulocytes count

Decreased color index

Appearance of erythroblasts in blood

Decreased hemoglobin content

After autopsy a forensic medical expert established that death of 20-year-old woman resulted from cyanide poisoning. What process disorder caused the death?

Tissue respiration

Oxygen transport by hemoglobin

Hemoglobin synthesis

Urea synthesis

Oxidative phosphorilation

Increased number of erythrocytes in blood test was revealed in people residing in village, which is situated in mountains at the altitude of 3000 m. What is the reason for changes in their blood?

Increased erythropoietin production

Increased vitamin B12 synthesis

Blood clotting

Change of spleen function

Increased circulating blood volume

The group of patients from sanatorium went to the mountains for excursion. Tachycardia and breathlessness developed in part of them in two hours after beginning of excursion. Which type of hypoxia do those disturbances result from?

Hypoxic

Hemic

Respiratory

Tissue

Circulatory

A driver slept in garage in a car with working engine. When he woke he had headache and later vomiting began in him. W hat compound formation in blood caused this state?

Carboxyhcmoglobin

Carbhemoglobin

Methemoglobin

Desoxihemoglobin

Oxyhemoglobin

A 40-years-old man took cyanic potassium by mistake. Me died instantly. What mitochondrial enzymes do cyanides block?

Cytochrome Oxydase

NAD-dependent Dehydrogenases

Cytochrome B

Cytochrome C

FAD-dependent enzymes

Pain in muscles appears after physical exertion in people, who move a little (have

hypodynamia) for a long time. What is the possible reason for this?

Accumulation of lactic acid in muscles

Decreased content of lipids in muscles

Increased content of ATP in muscles

Accumulation of creatinin in muscles

Enhanced decay of muscle proteins

The number of erythrocytes in alpinist's blood before going to mountains is 4.5×10^{12} /L. What changes of erythrocytes number can develop at the altitude of 2500 m above sea level?

Absolute erythrocytosis

Absolute erythropenia

Relative erythropenia

Relative erythrocytosis

There won't be any changes

Dyspnea, increased heart beat rate, weaken of attention, foolishness occurred in sportsmen without acclimatization during the ascent to the altitude of 3000 m. Then weakness and disturbance of muscular coordination occurred. What was the reason for that condition?

Hypoxic hypoxia

Circulatory hypoxia

Respiratory hypoxia

Hemic hypoxia

Hypercapnia

Environmental pollution by nitric compounds occurs after accident at a chemical factory. People, who Live at this region, have sharp weakness, headache, breathlessness, and giddiness. What does hypoxia result from?

Carboxyhemoglobin formation

Cytochrome Oxidase inactivation

Dehydrogenases suppression

Decreased function of FAD-dependent enzymes

Methemoglobin formation

Total respiratory insufficiency was noticed on examination of blood gases partial pressure in a patient with bronchial asthma. What is the reason of respiratory hypoxia in this case?

Decreased ventilation

Increased perfusion

Decreased diffusion

Increased ventilation

Increased diffusion

Total respiratory insufficiency developed in a patient with lung disease. It manifested

by decreased p0₂ and increased pO₂ in patient's blood. What caused development of respiratory hypoxia and pronounced respiratory insufficiency?

Frequent shallow respiration

Excessive hyperventilation

Oxygen deficit in inspired air

Uneven ventilation of the lungs

Functional blood shunting in the lungs

Disorders of oxyhemoglobin formation have led to development of hemic hypoxia.

What are the reasons for hemic hypoxia development?

Methemoglobin formation

Inhibition of dehydrogenases

Pronounced polycytemia

Activation of Glutation Peroxidase

Deficiency of riboflavinum

Which factors increase hypoxic injury of a cell under hypoxic conditions?

Catecholamines

Chinon derivations

Inhibitors of proteolysis

Glucocorticoids

Glutation-peroxidase

Symptoms of poisoning such as sharp weakness headache. Laboratory test of watermelon showed high level of nitrates. What is leading mechanism in pathogenesis of only one child poising?

Methemoglobin

reductase deficiency

Superoxide dismutase deficiency

Cytochrome oxidase

blockade

Cilutathionc peroxidase

deficiency

Catalase deficiency

A man has been living high in mountains for a long time. What changes in his blood would develop?

Increase in quantity of

hemoglobin

Increase in number of leukocytes

Increase in diameter of blood vessels

Decrease in number of

leukocytes

Rare pulse

Tachypnea and hypopnoe developed in tourists, which had climbed to the altitude of 3000 in. These changes are consequence of stimulation of

Chemoreceptorsof carotid sinus

Mechanoicceptors of pulmonary alveoli

Baroreceptors of arch of aorta

Neurons of the cerebral

cortex \

Motoneurons of spinal

cord

Cyanosis, swelling of lower extremities, dyspnea occurred in a 60-year-old patient suffering from heart failure. Long-term adaptation of organism to hypoxia, occurring in that condition, can be supplied by

Tachycardia

Blood outlet from the depots

increased hemopoietic activity

Opening of non-functioning capillaries

Increased blood oxygenation

A dog has poisoning by unknown substance that caused its immediate death because of oxidation o cytochromes. What is that substance?

Potassium cyanide

potassium chloride

Potassium sulfate

Potassium orotate

Potassium permanganate

Gas alkalosis developed in group of alpinists due to rise to the Everest s top. So carbon dioxide partial pressure in their arterial blood makes up

30 mmllg

40 mmHg

50mmHg

60 mmHg

70 mmHg

Hemic hypoxia occurred in a patient. Which substance accumulation leads to disturbance of acid-base balance?

Lactates

Sulfates

Phosphates

Hydrocaibonates

Hydroxybutirates

During keeping salvage operations, several miners were taken out from the mine. Ilicy were unconscious but without any visible damages. Jir in mine had

considerable amounts of methane. Which type of hypoxia developed in those people?

Hemic

Circulatory

Tissue

Respiratory

Hypoxic

A 29-year-old patient with carbon monoxide poisoning was admitted to the hospital, lie had signs of severe hypoxia: pronounced dyspnea, cyanosis and tachycardia. Which changes of hemoglobin take place during carbon monoxide poisoning?

Carboxyhemoglobin formation

Methemoglobin formation

Carbhemoglobin formation

Sulfhemoglobin formation

Oxyhemoglobin inactivation

A 54-year-old patient was admitted to hospital in hypoxic state, developed due to aspiration of \omit mass. Blood lest was taken a \Pic the treatment of patient. Does erythrocytes number in peripheral blood change in the initial phase of hypoxia?

Increase due to outlet of the blood from depots

No change in initial phase

Decrease due to hemolysis of erythrocytes

Decrease due to depot of blood

Increase due to increase of hemopoiesis

Dyspnea, cyanosis of mucous membranes of the lips, moderate tachycardia (pulse rate of 80 beats per minute) suddenly occurred in a patient during the treatment of carious tooth. Which type of hypoxia developed in this patient?

Circulatory

Tissue

Hemic

Respiratory

Hypoxic

Urinary system A 38-year-old man is going undertreatment in a hospital for schizophrenia. Blood contents of glucose, ketone bodies, and urea in him are norm. Shock therapy with regular injections of insulin was led to the development of insulin coma, after that the patient's condition improved. What was the most possible reason for development of insulin coma?

Hypoglycemia

Glucosuria

Dehydratationoftissues

Metabolicacidosis

Ketonemia.

Smell of apples is felt from the patient in comatose state. The content of glucose mmol/L. Which coma is more possible in this case?

Ketoacidotic

Hypoglycemic

Toxic

Hyperosmolar

Lactatacidotic

A patient is drowsy, with cloudiness of consciousness, his reaction to the strong stimuli is slow. His skin is pale and dry. He has edemas, muscular fibrillar tremor, midriasis, Cheyne-Stokes respiration with ammonium smell. Pericardial rub was revealed during auscultation. Which type of coma has been developed in this patient?

Renal

Ketoacidotic

Hyperosmolar

Hepatic

Apoplectic

Increase of blood pressure and rapid pulse are noticed in a sportsman at the start before competitions Influence of which part of the CNS can above-mentioned changes be explained?

Cortex of hemispheares

Medullaoblongata

Mesencephalon

Diencephalons

Hypothalamus

The close clinical examination of the patient, admitted to the reanimation department in unconscious condition allowed to make a conclusion that the patient was in uremic comatose state. Which symptom is more characteristic for this type of coma?

Hyperglycemic

Acetonesmell fromhismouth

Polyuria

Hypernitremia

Non-gasalkalosis

Ptyalism, bradycardia (heart rate 45 beats per minute), miosis are observed in a man. What is the most possible reason for such change?

Increase of parasympathetic influence

Increase of sympathetic influence

Decrease of sympathetic influence.

Decrease of parasympathetic influence.

Decrease of vegetative influence

The reactions, typical for stimulation of parasympathetic nerves, appeared after irritation of throphogenic zone of hypothalamus, including preopticnucleas and anterior hypothalamic area. Whatappearsinthiscase?

Decrease o BP

Tachycardia

Mydriasis

Exophthalmus

Hyperglycemia

After amputating the upper extremity a patient had a bad pain in it. Which mechanism of the pain feeling formation is more possible in this case?

Phantom

Reflex

Hyposecretionofendorphin

Hypersecretionofendorphin

Hyposecretionofencephalin

A patient had hemiplegia after insult. What disorder is observed in this case?

Movement

Taste

Balance

Vision

Hearing

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Hypoglycemia

Glucosuria

Dehydratation of tissues

Metabolic acidosis

Ketonemia

Smell of apples is felt from the patient in comatose state. The content of glucose is 18 mmol/L. Which coma is more possible in this case?

Ketoacidotic

Hypoglycemic

Toxic

Hyperosmolar

Lactatacidotic

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Hypernitremia

Hyperglycemic

Acetone smell from his mouth

Polyuria

Non-gas alkalosis

The close clinical examination of the patient, admitted to the reanimation department in unconscious condition allowed to make a conclusion that the patient was in state of diabetic coma. Which symptom is more characteristic for this type of coma?

Hyperglycemia

Smell of ammonium from the mouth

Anuria

Metabolic alkalosis

Decrease of content of nonprotein nitrogen in serum.

Increase of blood pressure and rapid pulse are noticed in a sportsman at the start before competitions. Influence of which part of the CNS can above-mentioned changes be explained?

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A patient is ill with epilepsy. Specific centers are formed in the brain – they function according to the principle of pathological determinant. What is the mechanism of the formation of these centers?

Formation of a pathological excitation generator

Protective inhibition

Intoxication

Hypoxia

Parabiosis

Neurosis was experimentally modeled by applying a very strong unconditioned stimulus. What kind of somatopathology can develop as a consequence of neurosis?

Duodenal ulcer

Pancreatitis

Glomerulonephritis

Hepatitis

Myocarditis

A woman ill with myasthenia had respiratory impairment, which required artificial lung ventilation. What respiratory impairment has developed in this case?

Neuromuscular

Obstructive

Central

Thoracodiaphragmal

Destructive

A 68-year-old woman had stroke. She cannot move both right extremities. Muscle tone and reflexes are increased. Pathological reflexes are observed. What kind of paralysis is it?

Central

Tetraplegia

Paraplegia

Peripheral

Reflex

After a road accident a patient was diagnosed with trauma of the brachium and median nerve. Motor and sensitive functions are impaired. The patient complains of stinging intolerable pain. What kind of pain is it?

Causalgia

Somatic

Visceral

Reflected

Phantom