A patient has developed anuria. Blood pressure is 50/20 mm Hg. What process of uropoiesis caused acute decrease of urination? (2016, N 5, TB)
+Glomerular filtration
Obligate reabsorption
Facultative reabsorption
Tubular secretion

In an emergency situation a scuba diver has quickly risen from the depth to the surface in violation of safety regulations. He is unconscious, presents with respiratory failure and cardiac activity disorder as the result of decompression sickness. What complication can develop in the scuba diver? (2016, N 15, TB) (2015, N 12, TB)(2013, 2012)
+Gas embolism
Fat embolism
Air embolism
Cellular embolism
Thromboembolism

Parents of a 10-year-old child have made an appointment with endocrinologist due to complaints of the child's low height. The child's appearance is corresponding with that of a 5-year-old. What hormone causes such changes in physical development, if its secretion is disrupted? (2016, N 16, TB)
+Somatotropic hormone
Adrenocorticotropic hormone
Thyroxin
Testosterone
Insulin

A patient complains of tachycardia, insomnia, weight loss, irritability, sweating. Objectively: the patient has goiter and slight exophthalmos. What gland is affected, and what functional disorder is it? (2016, N17, TB)
+Hyperthyroidism
Hypothyroidism
Hyperparathyroidism
Hypoparathyroidism
Adrenomedullary hyperfunction

A patient has been hospitalised with pneumonia. What kind of respiratory failure does the patient have? (2016, N 19, TB)
+Restrictive
Obstructive
Central

Peripheral
Thoracic diaphragm

In the state of fright the following signs can be observed: acute pallor of face, tremor of extremities. What kind of ischemia can be observed in such a condition? (2016, N 20, TB)
+Angiospastic
Compression
Obstructive (thrombus)
Metabolic
Obstructive (vascular wall thickening

An injured person exhibits the following signs at the site of trauma: skin redness, throbbing small arteries, elevated local temperature, increased tissue turgor. What local blood circulation disorder are these presentations typical of? (2016, N 26, TB) (2013)
+Arterial hyperemia
Venous hyperemia
Thrombosis
Embolism
Ischemia

At the sixth month of pregnancy a woman has been diagnosed with severe iron-deficiency anemia. Appearance of the following elements in her blood became the diagnostic character: (2016, N 35, TB) (2015, N 37, TB)
+Hypochromic erythrocytes
Macrocytes
Megalocytes
Reticulocytes
Erythroblasts

An ophthalmologist has detected increased time of dark adaptation in a patient. What vitamin deficiency can result in such symptom? (2016, N 81, TB)
+A
C
K
B1
B6

A 70-year-old patient presents with cardiac and cerebral atherosclerosis. Examination revealed changes of blood lipid spectre. Increase of the following lipoproteins plays a significant role in atherosclerosis pathogenesis: (2016, N 82,

TB)
+Low-density lipoproteins
Very low-density lipoproteins
Intermediate density lipoproteins
High-density lipoproteins
Chylomicrons

During containment measures following Chornobyl Nuclear Power Plant disaster a worker has been exposed to a dose of ionizing emission of 6 Gy (600 R). The worker complains of general fatigue, nausea, dizziness, labile blood pressure and heart rate, short-term leukocytosis with lymphopenia. What stage of acute radiation sickness can be characterized by such presentations? (2016, N 83, TB)
+Prodromal
Manifest
Latent
Recovery
Long-term consequences

A woman noticed that a cut on her skin was still bleeding even after 20 minutes had passed. What vitamin deficiency causes such condition? (2016, N 88, TB) (2015, N 83, TB)
+ Vitamin K
Vitamin A
Vitamin D
Vitamin E
Vitamin B12

An elderly man exhibits low levels of red blood cells and hemoglobin in blood; however, his color index is 1,3. Blood smear analysis revealed megaloblasts. What type of anemia is observed in this case? (2016, N 98, TB)
+B12-folic acid deficiency
Iron-deficiency
Acquired hemolytic
Hereditary hemolytic
Chronic posthemorrhagic

After drinking milk a 1-year-old child developed diarrhea, flatulence. The baby is likely to have deficiency of the following enzyme: (2016, N 100, TB) (2015, N 94, TB)
+Lactase
Maltase
Aldolase

Hexokinase
Glycosidase

A patient with alcoholic cirrhosis complains of general weakness and dyspnea. The following is revealed: decrease of blood pressure, ascites, dilation of superficial veins of the stomach anterior wall, esophageal varicose veins dilatation, splenomegaly. What hemodynamics disorder does the patient suffer from? (2016, N 111, TB) (2015, N 104, TB) (2014, N 134, TB)(2012)
Portal hypertension
+Left ventricular failure
Right ventricular failure
Cardiac insufficiency
Collapse

A patient has icteric skin; unconjugated bilirubin content in blood is high; conjugated bilirubin in urine is not detected. There is significant amount of urobilin in urine and stercobilin in feces. Name the pathology characterized by given symptoms: (2016, N118, TB) (2015, N 117, TB) (2014, N 155, TB)
+Hemolytic jaundice
Obstructive jaundice
Jaundice of the newborn
Hepatocellular jaundice
Atherosclerosis

A 46-year-old patient was found to have hyperactivity of creatine kinase in the blood serum. What pathology can be suspected? (2016, N 121, TB) (2015, N 124, TB)
+Myocardial infarction
Acute pancreatitis
Chronic hepatitis
Hemolytic anemia
Renal failure

A patient with pulmonary carcinoma has developed a case of pleurisy. Large amount of hemorrhagic exudate was obtained for analysis. What component is specific for hemorrhagic exudate? (2016, N 123, TB)
+Erythrocytes
Leukocytes
Platelets
Fibrin
Pus

Cataract (lenticular opacity) has developed in a 52-year-old woman with diabetes mellitus. Lenticular opacity was caused by intensification of the following processes: (2016, N 125, TB) (2015, N 128, TB)
+Protein glycosylation
Lipolysis
Ketogenesis
Protein proteolysis
Gluconeogenesis

A man received a radiation dose of 30 Gy. He presents with necrotic angina, disorders of the gastrointestinal tract. Blood tests revealed anemia, leukopenia and thrombocytopenia. What stage of acute radiation sickness is observed in the patient? (2016, N 127, TB)
+Manifest illness stage
Prodromal stage
Latent stage
Recovery
-

A patient with croupous pneumonia presents with sharp increase of body temperature up to 39^0C, which persisted for 9 days with daily amplitude of 1 degree. What temperature curve could be observed? (2016, N 129, TB)
+Stable
Hectic
Septic
Recurrent
Atypical

A patient of a neurology unit suffers from paralysis of all limbs. Name this condition: (2016, N 158, TB)
+ Tetraplegia
Paraplegia
Hemiplegia
Paresis
Hypodynamia

The most severe and dangerous complication of diabetes mellitus is hypoglycemic coma that is characterized by loss of consciousness and is lethal, unless efficient emergency treatment is received by patient. What is the main pathogenetic component of hypoglycemic coma? (2016, N 159, TB)
+Carbohydrate deficiency and low energy of cerebral neurons
Carbohydrate deficiency and low energy of myocardium cells

Blood hyperosmia
Noncompensated ketoacidosis
Respiratory alkalosis

A woman complains of nausea, vomiting, skin itch. She was diagnosed with mechanical jaundice. What is the possible cause of skin itch in such a condition? (2016, N 165, TB)
+Bile acids accumulating in the blood
Increased blood content of indirect bilirubin
Cholesterol accumulating in the blood
Direct bilirubin appearing in the blood
Erythrocyte disintegration products accumulating in the blood

During ultrasound investigation a patient has been diagnosed with bilateral stenosis of renal artery with atherosclerotic genesis. Specify the bioactive substance that due to its excessive secretion is the key component of arterial hypertension pathogenesis in the given case: (2016, N 168, TB) (2015, N 159, TB)
+Renin
Cortisol
Vasopressin
Noradrenaline
Thyroxin

Modelling of immobilization stress is performed on a test animal – guinea pig – that starved for a day. Dissection revealed hyperemic gastric mucosa with multiple erosions. What theory of ulcer formation is confirmed by this test? (2016, N 188, TB)
+Corticovisceral (stress)
Vascular
Inflammatory
Mechanical
Peptic

A patient in the state of ketoacidotic coma presents with loud rapid respiration: labored expiration with tension of expiratory muscles occurs after deep inspiration. Name the type of pathologic respiration: (2016, N 192, TB)
+Kussmaul's
Cheyne-Stokes'
Gasping
Stenotic
Biot's

A 40-year-old man presents with rapid weight gain after he had suffered a severe craniocerebral trauma. On examination the patient's weight was 125 kg, with his height being 175 cm. What mechanism of obesity development is the most likely in this case? (2016, N 195, TB) (2015, N 195, TB)
+Hypothalamic
Alimentary
Hormonal
Hereditary
-

A victim of a traffic accident is hospitalized at a resuscitation unit. Objectively: the patient is unconscious, BP is 90/60 mm Hg, high blood content of creatinine and urea is observed, diurnal diuresis is 80 ml. Characterize the patient's diurnal diuresis: (2015, N 2, TB)
+Anuria
Oliguria
Polyuria
Pollakiuria
Nocturia

A newborn child born from Rhnegative mother in the result of her third pregnancy presents with gradually worsening jaundice, irritated central nervous system, anemia. What type of jaundice does the infant suffer from? (2015, N 10, TB)
+Hemolytic
Hepatocellular
Obstructive
Parasitic
Toxic

The patient has been hospitalised with pneumonia. What kind of respiratory failure does the patient have? (2015, N 13, TB) (2014, N 9, TB)
+Restrictive
Obstructive
Central
Peripheral
Thoracic diaphragm

What disorder of local circulation is characterized by pallor, local temperature drop, pain, local sensitivity disorder, reduction of the organ volume? (2015, N 21, TB)
+Ischemia
Venostasis

Thrombosis
Embolism
Arterial hyperemia

Heart rate of a person at rest is 40/min. What structure is the pacemaker of heart in this man? (2015, N 23, TB)
+Atrioventricular node
Sinoatrial node
His' bundle
His' bundle branches
Purkinje fibers

The volume of air exhaled by a healthy person during quiet breathing was measured with a spirometer and determined to be 0,5 liter. What is this volume called? (2015, N 24, TB)
+Tidal volume
Inspiratory reserve volume
Expiratory reserve volume
Vital capacity of lungs
Residual volume

A patient has been taking diclofenac sodium for a long time. A family physician withdrew this drug and prescribed celecoxib. What disease was the cause of drug substitution? (2015, N 25, TB)
+Peptic ulcer
Bronchial asthma
Urolithiasis
Arterial hypertension
Chronic hepatitis

Diet of a human must contain vitamins. What vitamin is usually prescribed for treatment and prevention of pellagra? (2015, N 53, TB)
+Vitamin PP
Vitamin C
Vitamin A
Vitamin B1
Vitamin D

A 22-year-old man was stung by bees; the affected area became hyperemic and edematous. What is the leading mechanism of edema development in this patient? (2015, N 59, TB)

+Increased permeability of the capillaries
Decreased hydrostatic blood pressure in the capillaries
Increased oncotic pressure of tissue fluid
Impaired lymphatic efflux
Reduced oncotic pressure of blood

A patient has obstruction of the common bile duct. Which of these substances is usually found in urine in such cases? (2015, N 60, TB)(2013, 2012)
+Bilirubin
Ketone bodies
Uric acid
Creatinine
Glucose

A patient with systemic lupus erythematosus has developed diffuse affection of kidneys followed by proteinuria, hypoproteinemia, extensive swelling. What mechanism of proteinuria development is the most likely in this case? (2015, N 63, TB)
+Autoimmune disorder of the nephron glomerulus
Inflammatory disorder of the nephron tubule
Ishemic disorder of the nephron tubule
Increased concentration of blood proteins
Disorder of the urinary tracts

A 40-year-old man diagnosed with gastric ulcer has developed the symptoms anew after a long period of dormancy. Such disease course can be characterized as a: (2015, N 92, TB)
+Recurrence
Remission
Recovery
Latency
Prodromal phase

An elderly patient exhibits low levels of red blood cells and hemoglobin in blood, but the color index is 1,3. Blood smear analysis revealed megaloblasts. What type of anemia is observed in this case? (2015, N 93, TB)
+B_{12}-folic acid deficiency
Iron-deficiency
Acquired hemolytic
Hereditary hemolytic
Chronic posthemorrhagic

A man presents with signs of albinism: blonde hair, extreme photosensitivity, impaired vision. What amino acid metabolism is disrupted in the patient? (2015, N 95, TB)
+Tyrosine
Methionine
Proline
Histidine
Valine

A patient complains of pain in the small joints. High concentration of uric acid is detected in his blood plasma. What pathology causes such changes? (2015, N 118, TB)
+Gout
Diabetes mellitus
Phenylketonuria
Lesch-Nyhan syndrome
Diabetes insipidus

A patient suffering from coronary heart disease, who had had two myocardial infarctions of left ventricular wall, presents with bubbling breathing and dyspnea. Pulmonary auscultation reveals numerous moist crackles. What kind of heart failure is it? (2015, N 122, TB)
+Left ventricular
Right ventricular
Compensated
Subcompensated
Combined

A man received a radiation dose of 30 Gy. He presents with necrotic angina, disorders of the gastrointestinal tract. Blood tests revealed anemia, leukopenia and thrombocytopenia. What period of acute radiation sickness is observed in the patient? (2015, N 130, TB)
+Height of disease
Primary reactions
Imaginary wellbeing
End of disease

In the course of an experiment in the mesenteric vein of a toad a trombus was created with a crystal of common salt. What processes occurred during the first stage of trombus formation? (2015, N 131, TB)
+ Adhesion, aggregation, agglutination of platelets

Production of active thromboplastin
Production of thrombin
Production of fibrin monomer
Production of fibrin polymer

A patient has a mental disorder due to the insufficient synthesis of gammaaminobutyric acid in the brain. Such pathological changes might be caused by the deficiency of the following vitamin: (2015, N 135, TB)
+Pyridoxine
Tocopherol
Cyanocobalamin
Folic acid
Riboflavin

A patient suffers from mucosal dryness and mesopic vision disorder. What vitamin deficiency causes these symptons? (2015, N 149, TB)
+A
P
E
C
D

A 5-year-old child presents with abdominal distension, abdominal cramps, and diarrhea occurring 1-4 hours after drinking milk. Described symptoms are caused by the lack of enzymes that break up: (2015, N 154, TB)
+Lactose
Glucose
Maltose
Saccharose
Fructose

A patient was visiting a pharmacy, when he suddenly felt unwell. He developed palpitations, rapid heart rate, pain in the chest that after several minutes spread to the left scapula and left side of the head. What condition should be considered first? (2015, N 168, TB)
+Ischemic heart disease
Peptic gastric ulcer disease
Dysphagia
Pneumonia
Somatoform autonomic dysfunction

A 25-year-old-patient with the II degree thermal burns addressed a doctor. Objectively: there are large blisters on the upper limbs; the blisters are filled with clear exudate containing mostly water and albumines with isolated leukocytes. Name the type of the exudate: (2015, N 181, TB)
+Serous
Catarrhal (mucous)
Fibrinous
Purulent
Hemorrhagic

After ishemic stroke a 67-year-old patient developed reduced mobility of the left leg. Name this condition: (2015, N 192, TB)
+Paresis
Paralysis
Myasthenia
Hyperkinesia
Tremor

A 32-year-old patient with cerebellar tumor was delivered to an admission room of a hospital. The patient presents with ataxia that can be characterized by: (2015, N 193, TB)
+Disrupted coordination of movements
Involuntary contraction of skeletal muscles
Increased muscle tone
Pathological reflexes
Irregular force and direction of movements

During calculous cholecystitis attack the patient has developed the following symptoms: saponated feces and steatorrhea. What stage of fats metabolism is disrupted according to those symptoms? (2014, N 3, TB)
+Fat digestion, absorption and secretion
Fat absorption
Intermediary metabolism of fats
Fats metabolism in adipose tissue
Depositing disruption

Parents of the 10-year-old child have made an appointment with endocrinologist due to complaints of child's low height. The child's appearance is corresponding with that of 5-year-old child. What hormon secretion disorder causes such physical development changes? (2014, N 7, TB)
+Somatotropic hormone
Adrenocorticotropic hormone

Thyroxin
Testosterone
Insulin

The 55-year-old patient has been hospitalised due to chronic cardiac failure. Objectively: skin and mucosa are cyanotic, tachycardia, tachypnea. What kind of hypoxia does the patient have? (2014, N 8, TB) (2012)
+Circulatory
Anemic
Hemic
Tissue
Hypoxic

The patient with acute cardiac failure has developed dyspnea, tachycardia and cyanosis during physical exertion. Name the type of hypoxia. (2014, N 23, TB)
+Circulatory
Respiratory
Hemic
Hypoxic
Tissue

At the sixth month of pregnancy the female patient has been diagnosed with severe iron-deficiency anemia. Diagnostic character was the appearance of the following in blood: (2014, N 36, TB)
+Hypochromic erythrocytes
Macrocytes
Megalocytes
Reticulocytes
Erythroblasts

1 minute after the patient had been administered penicillin the patient's arterial pressure sharply dropped, pulse became thready, cold sweating and clonic convulsions began. Name this condition. (2014, N 41, TB)
+Anaphylactic shock
Traumatic shock
Cardiogenic shock
Septic shock
Burn shock

The patient with acute left ventricular failure has developed edema of lungs. What peripheral circulation disorder taking place in the lungs has caused this complication? (2014, N 56, TB)

+Venous hyperemia
Arterial hyperemia
Neuroparalytic arterial hyperemia
Pulmonary artery thrombosis
Ischemia

Knee joint enlargement and cutaneous edema has developed in the 46-year-old patient with acute knee joint inflammation on the second day. What stage of inflammation progressing are these symptoms usually observed at? (2014, N 57, TB)
+Exudation
Alteration
Proliferation
Regeneration
Sclerosis

In the process of chemical solution preparation laboratory assistant's forearm was exposed to concentrated hydrochloric acid. There are burning pain, hyperemia and swelling of the damaged area. What pathologic process are these symptoms evidential of? (2014, N 59, TB)
+Inflammation
Tumor
Embolism
Thrombosis
Lymphostasis

In 1915 Japanese scientists Katsusaburo Yamagiwa and Koichi Ichikawa became the first, who induced experimental tumors, by painting ears of rabbits with coal tar. What method of experimental tumor inducing did they use? (2014, N 65, TB)
+Chemical induction
Transplantation
Explantation
Cell-free filtrate induction
Radioisotope induction

The alleged diagnosis of the newlyhospitalised in-patient is leukemia. What symptom among those given below is diagnostic character differentiating acute leukemia from chronic leukemia? (2014, N 66, TB)
Leukemic hiatus
+Significant increase of leucocytes number
Leukosis rate
Eosinophil and basophil levels

Gumprecht's shadows (smudge cells)

Catabolism of body's own tissue proteins is intensified during such diseases as thyrotoxicosis and tuberculosis. This process is attended by intensive synthesis in liver and subsequent excretion with urine of the following: (2014, N 88, TB)
+ Urea
Glucose
Acetone bodies
Fatty acids
Nucleotides

Tetanic spasms of skeletal muscles occur under low calcium concentration in blood. What endocrine disorder can this condition be associated with? (2014, N 98, TB)
+Hypofunction of parathyroid glands
Hyperfunction of adrenal cortex
Hypofunction of adrenal cortex
Hyperthyroidism
Hypothyroidism

A newborn infant has hemolytic jaundice caused by rhesus incompatibility. What bile pigment will be concentrated highest in the blood of this infant? (2014, N 107, TB)
+Unconjugated bilirubin
Conjugated bilirubin
Urobilinogen
Stercobilinogen
Bile acids

The patient with acute cardiac insufficiency has decreased urine excretion caused by reduction of filtering taking place in glomerules. What causes this drop in filtration? (2014, N 108, TB)
+Decrease of arterial pressure
Increase of hepatic blood flow
Exsiccosis
Duct lumen obstruction
Decrease in number of functioning glomerules

The 49-year-old female patient suffering long-term from pancreatic diabetes has developed the following symptoms after administering insulin: weakness, facial pallor, palpitation, anxiety, double vision, numbness of lips and tongue apex. Glucose molar concentration in blood was 2,5 mmol/l. What complication has developed in the patient? (2014, N 109, TB)

+Hypoglycemic coma
Hyperosmolar coma
Hyperglycemic coma
Hyperketonemic coma
Uremic coma

The 40-year-old patient has been diagnosed with gastric ulcer, disease symptoms making reappearance after prolonged period of dormancy. How can this kind of disease progression be qualified? (2014, N 110, TB)
+Relapse
Remission
Recovery
Latent period
Prodromal stage

The 55-year-old female patient has developed a case of acute pancreatitis caused by greasy food. What is the main pathogenesis step of this disorder? (2014, N 111, TB)
+Premature activation af enzymes in gland ducts and cells
Pancreatic juice deficiency
Low bile production in liver
Fats digestion disruption
Acute bowel obstruction

As the result of taking herbal medicine the 30-year-old patient has developed anaphylactic allergic reaction and blood leukocytosis. What kind of leukocytosis is characteristic of this case? (2014, N 112, TB)
+Eosinophilia
Monocytosis
Lymphocytosis
Basophilia
Heutrophilia

Milk intake has resulted in the one-year-old child having diarrhea and abdominal distension. What enzyme deficiency does the child have? (2014, N 115, TB)
+Lactase
Maltase
Aldolase
Hexokinase
Glycosidase

The 56-year-old patient has developed megaloblastic anemia in the course of alcoholic cirrhosis. What vitamin deficiency is the main cause of anemia in this patient? (2014, N 116, TB)
+Folic acid
Lipoic acid
Biotin
Thiamine
Pantothenic acid

The dispensing chemist's arterial pressure has increased (160/110 mm Hg) due to his conducting long-term analytical analysis (neurosis). What neurohumoral regulation changes can cause increased arterial pressure in the given case? (2014, N 133, TB)
+Sympathoadrenal system activation
Activation of aldosterone producing and secretion
Renin-angiotensin system activation
Kallikrein-kinin system activation
Sympathoadrenal system inhibition

The 13-year-old female patient having suffered from measles complains of dry mouth, thirst, body weight loss, polyuria, her glucose concentration in blood is 16 mmol/l. What disease can be suspected? (2014, N 141, TB)
+Type I pancreatic diabetes
Type II pancreatic diabetes
Diabetes insipidus
Steroidogenic diabetes
Glycogenosis

The patient with mushroom poisoning has developed the following symptoms: yellow coloring of skin and sclera, dark-colored urine. Hemolytic jaundice was diagnosed. What pigment causes such coloring of the patient's urine? (2014, N 142, TB)
+Stercobilin
Conjugated bilirubin
Biliverdin
Unconjugated bilirubin
Verdohemoglobin

The patient has been admitted to the hospital with complaints of general fatigue, headache, lumbago, edema of face and extremities. Urine analysis revealed proteinuria, hematuria and cylindruria. What is the main pathogenetic mechanism of edema formation during glomerulonephritis? (2014, N 168, TB)

+Decrease of oncotic blood pressure
Increase of vascular permeability
Increase of hydrodynamic blood pressure
Hormonal disbalance
Lymph flow disruption

Fluorography examination of the 59-year-old patient has revealed welldefined shadow, which is characteristic to tumor, in the lower part of the left lung. What trait is characteristic of benign tumor? (2014, N 171, TB)
+Expansive growth
Metastasis
Cancer cachexia
Invasion in surrounding tissues
Infiltrating growth

After taking phenacetin a patient developed acute sore throat, fever. Examination enabled doctors to make a diagnosis of necrotic angina and agranulocytosis. Agranulocytosis can be characterized by a decrease in the amount of the following WBCs: (2013, 2012)
+Neutrophils
Eosinophils
Basophils
Lymphocytes
Monocytes

A patient has been hospitalized for chronic heart failure. Objectively: skin and mucous membranes are cyanotic, the patient has tachycardia, tachypnea. What type of hypoxia has developed in the patient? (2013)
Circulatory
+Anemic
Hemic
Tissue
Hypoxic

A patient with a diagnosis of drug poisoning has been admitted to the resuscitation department. The patient is in grave condition. Respiration is rapid, superfi- cial, with periods of apnea (Biot's respiration). What was the main cause of the development of periodic breathing in the patient? (2013)
+Inhibition of the respiratory center function
Impaired function of spinal cord motoneurons
Impaired function of the neuromuscular system
Diminished chest mobility

Pulmonary dysfunction

On the 2nd day after developing acute inflammation of the knee joint, the patient exhibits the joint enlargement, swelling of the skin. At what stage of inflammation are these signs typically observed? (2013)
+Exudation
Alteration
Proliferation
Regeneration
Sclerosis

A patient had been diagnosed with right lung cancer and administered surgical treatment. After right-sided pulmonectomy the patient developed evident dyspnea. What form of respiratory failure developed in this patient? (2013)
+Pulmonary restrictive
Central
Peripheral
Pulmonary obstructive
Thoracodiaphragmal

A 22-year-old male was stung by bees, the affected region became hyperemic and edematous. What is the leading mechanism of edema development in this patient? (2013)
+Increased permeability of the capillaries
Decreased hydrostatic blood pressure in the capillaries
Increased oncotic pressure of tissue fluid
Impaired lymphatic efflux
Reduced oncotic pressure of blood

A patient with chronic renal failure exhibits azotemia, hypo- and isosthenuria. What is the main factor in the pathogenesis of these symptoms in the patient? (2013)
+Reduction of existing nephrons mass
Increase in glomerular filtration rate
Reduction of tubular secretion
Disturbance of the permeability of the glomerular membrane
Decrease in glomerular filtration rate in each nephron

A hospital admitted a patient with arterial hypertension induced by renal artery stenosis. The patient complains of persistent nausea and headache. The main element in the pathogenesis of hypertension is the activation of the following system: (2013, 2012)

+Renin-angiotensin
Hypothalamic-pituitary
Kallikrein-kinin
Sympathoadrenal
Parasympathetic

Addison's (bronze) disease is treated with glucocorticoids. Their effect is provided by the potentiation of the following process: (2013)
+Gluconeogenesis
Glycolysis
Pentose phosphate cycle
Glycogenolysis
Ornithine cycle

After an insulin injection a 45-yearold female with a long history of diabetes mellitus has developed weakness, paleness, palpitation, anxiety, double vision, numbness of lips and the tip of tongue. Blood glucose is at the rate of 2,5 mmol/l. What complication has developed in the patient? (2013, 2012)
+Hypoglycemic coma
Hyperosmolar coma
Hyperglycemic coma
Hyperketonemic coma
Uremic coma

A 45-year-old male patient was diagnosed with stomach ulcer. After the conservative treatment the pain and heartburn disappeared, the function of the gastrointestinal tract was normalized. Endoscopic examination of stomach revealed cicatrization of the ulcer. Qualify this course of the disease: (2013)
+Remission
Relapse
Latent period
Recovery
Prodromal stage

An older patient exhibits low levels of red blood cells and hemoglobin in blood, but the color index is 1,3. Blood smear analysis revealed megaloblasts. What type of anemia is observed in this case? (2013)
+B_{12}-folic acid deficiency
Iron-deficiency
Acquired hemolytic
Hereditary hemolytic
Chronic posthemorrhagic

In response to the administration of protein drugs, a patient developed an allergic reaction. The development of the allergic reaction is caused by the increased synthesis of the following compound: (2013)
+Histamine
Choline
Adrenaline
Histidine
Serotonin

A patient with acute myocarditis exhibits rapid fatigability, shortness of breath, edemata of legs, hepatomegaly. Classify the type of heart failure by the mechanism of its development: (2013)
+Myocardial
Overload
Compensated
Subcompensated
Combined

After a contact with a person having an infectious diseases, the disease pathogens entered the patient's body and started to multiply, but the symptoms of the disease were not yet observable. What period of the disease is this typical for? (2013)
+Latent
Prodromal
Manifest illness stage
Clinical outcome
Relapse

A male patient developed fever up to 40^0C, there are vomiting, diarrhea, the patient is in grave condition. Blood osmolality is 270 mOsm/l. What disorder of water-salt metabolism is observed in the patient? (2013)
+Hypoosmolar hypohydration
Isoosmolar hypohydration
Hyperosmolar hypohydration
Isoosmolar hyperhydration
Hypoosmolar hyperhydration

A male received a radiation dose of 30 Gy. He presents with necrotic angina, disorders of the gastrointestinal tract. Blood tests revealed anemia, leukopenia and thrombocytopenia. What phase of acute radiation syndrome is observed in the patient? (2013)
+Manifest illness stage

Primary reactions
Latent
Outcome of disease

As a result of hypothermia a male patient developed acute diffuse glomerulonephritis. What type of allergic reaction caused damage to the glomerular capillaries in the patient? (2013)
+Immunocomplex
Anaphylactic
Cytotoxic
Cell-mediated
Stimulating

As a result of an emergency situation (shipwreck) a man had to drink sea (salty) water. What form of water-salt imbalance may occur in this case? (2013)
+Hyperosmolar hyperhydration
Hypoosmolar hyperhydration
Hypotonic hyperhydration
Isoosmolar hyperhydration
Isotonic hyperhydration

Examination of the lower limbs of a 40-year-old patient with coronary artery disease and vascular disease of the lower limbs (obliterating endarteritis) revealed skin pallor and dystrophy, local temperature decrease, sense shock, pain. The patient is likely to have the following disorder of the peripheral blood circulation: (2012)
+Obstruction ischemia
Compression ischemia
Angiospastic ischemia
Venous hyperaemia
Arterial hyperaemia

A patient has been found to have sugar in the urine. Blood glucose is normal. Arterial pressure is normal. What is the mechanism of glycosuria development in this case? (2012)
+Disturbance of glucose reabsorption in the nephron tubules
Insulin deficiency
Hyperfunction of adrenal medulla
Hyperfunction of thyroid gland
Hyperfunction of adrenal cortex

A newborn born to an Rh-negative mother (3rd pregnancy) presents with progressing jaundice, symptoms of CNS excitation, anemia. What type of jaundice is it? (2012)
+Hemolytic
Parenchymatous
Obstructive
Parasitic
Toxic

A group of alpinists climbing to the top had their blood tested. The test revealed erythrocytosis and an increase in hemoglobin rate. What type of hypoxia caused the stimulation of erythropoiesis in the bone marrow? (2012)
+Hypoxic
Combined
Hemic
Circulatory
Tissue

A continuous stay in the mountains causes an increase of blood oxygen capacity. What is the possible reason for this phenomenon? (2012)
+Development of functional erythrocytosis
Increase of PO_2 rate in the air
Increase of PCO_2 rate in the air
Decrease in respiratory rate and depth
Development of gas acidosis

A patient with systemic lupus erythematosus has developed a diffuse renal affection accompanied by proteinuria, hypoproteinemia, massive edema. What is the mechanism of proteinuria development in this case? (2012)
+Autoimmune affection of glomeruli
Inflammation of renal tubules
Ischemic affection of tubules
Blood protein increase
Affection of urinary tracts

A warmly dressed child has spent a considerably long time out of doors. This resulted in body temperature elevation and general weakness development. What form of thermoregulation disorder is observed in this case? (2012)
+Exogenous hyperthermia
Endogenous hyperthermia
Fever
Heat shock

Centrogenous hyperthermia

A patient with pneumosclerosis has blood pH at the rate of 7,34. Analysis of gas formula of blood showed hypercapnia. Urine analysis revealed an acidity increase. +What form of acid-base disbalance is the case? (2012)
Gaseous acidosis
Secretory alkalosis
Gaseous alkalosis
Non-gaseous alkalosis
Non-gaseous acidosis

A 70-year-old patient has been found to have atherosclerosis of heart and brain vessels. Examination revealed the changes in the lipid profile. Pathogenesis of atherosclerosis is greatly influenced by an increase in the following lipoproteins rate: (2012)
+Low-density lipoprotein
Very-low-density lipoproteins
Intermediate-density lipoproteins
High-density lipoprotein
Chylomicrons

After eating strawberries a child presented with itchy red spots on the skin (hives). According to the classification of Coombs and Jell this reaction relates to the following type of allergic reactions: (2012)
+Reagin (anaphylactic)
Cytotoxic
Immunocomplex
Cell-mediated
Stimulating

A patient was found to have an increased blood serum LDH-1 activity. In which organ is the pathological process localized? (2012)
+Heart
Liver
Kidneys
Stomach
Muscles

A man who had been struck in the epigastric region had a heart arrest. What caused such changes in the cardiac activity? (2012)
+Increased vagal tonus
Adrenaline release

Increased sympathetic tonus
Angiotensin II release
Histamine release

A patient has developed an attack of bronchial asthma: he has laboured respiration with the frequency of 24-26/min., inspirations take turns with prolonged expirations involving participation of expiratory muscles. What form of respiratory failure has developed in the patient? (2012)
+Expiratory dyspnea
Cheyne-Stokes
Biot's
Inspiratory dyspnea
Apneustic respiration

A 58-year-old male patient was found to have a peripheral circulation disorder with a restricted arterial inflow, paleness of the respective region, drop of partial oxygen pressure in it. This disorder is called: (2012)
+Ischemia
Arterial hyperemia
Thrombosis
Venostasis
Reperfusion syndrome

A male received a radiation dose of 30 Gy. He presents with necrotic angina, disorders of the gastrointestinal tract. Blood tests revealed anemia, leukopenia and thrombocytopenia. What period of acute radiation sickness is observed in the patient? (2012)
+Height of disease
Primary reactions
Imaginary wellbeing
End of disease