THE FIRST ANSWER IS CORRECT IN EACH QUESTION

A patient presents with decreased secretory function of the stomach, which is accompanied by anemia. What vitamin has anti-anemic action? (2020, N 23)
+Cobalamin
Nicotinic acid
Tocopherol
Retinol
Thiamine

During the blooming season a 45-year-old woman developed acute inflammatory disease of her upper airways and eyes with hyperemia, edema, and mucous discharge. What type of leukocytosis is the most characteristic in this case? (2020, N 41)
+ Eosinophilia
Monocytosis
Basophilia
Lymphocytosis
Neutrophilia

A woman complains of palpitations, muscle weakness, and increased appetite. Objectively, she presents with thyroid gland enlargement. Hypersecretion of what hormone is likely in this case? (2020, N 53)
+ Thyroxine
Cortisol
Glucagon
Calcitonin
Aldosterone

After a physical exertion, a patient developed an angina pectoris attack due to myocardial ischemia. What statement corresponds the best with the definition of ischemia? (2020, N 77)
+ Imbalance between the needed and received blood supply to the tissues
Dilation of the arterioles
Decreased blood erythrocyte count
Increased supply of the tissues with oxygen
Oxygen deficiency in the circulatory system

A mountain-dweller has blood hemoglobin of 180 g/L. Increased hemoglobin synthesis in the conditions of chronic hypoxia occurs due to bone marroow stimulation with: (2020, N 91)
Erythropoietin
Adrenaline
Thyroxine
Vasopressin
Noradrenaline

A 45-year-old woman diagnosed with fibromyoma developed microcytic hypochromic anemia due to profuse hemorrhages. What type of anemia is it, based on the mechanism of its development? (2020, N 99)
+Iron-deficienty
Protein-deficiency
Folate-deficiency
Aplastic
Metaplastic

An intensive care unit received an unconscious patient diagnosed with diabetic ketoacidotic coma. What type of pathological respiration is characteristic of this condition? (2020, N 118)
+ Kussmaul respiration
Biot respiration
Gasping respiration
Apneustic respiration
Cheyne-Stokes respiration

A 38-year-old pregnant woman with uterine bleeding was brought into the admission room. What changes are likely to be observed in the blood of the woman in labor? (2020, N 127)
+Decreased hematocrit
Increased hematocrit
Leukopenia
Monocytosis
Erythrocytosis

A patient complains of a pain in his right leg. During foot examination, his foot is pale, diminished in size, and exhibits a local decrease in temperature. What disturbance of local blood circulation is observed in this patient? (2020, N 139)
+Ischemia
Metabolic arterial hyperemia
Neuroparalytic arterial hyperemia
Venous hyperemia
Neurotonic arterial hyperemia

During examination a patient that complained of edemas presents with proteinuria, arterial hypertension, hypoproteinemia, and retention hyperlipidemia. Name this syndrome; (2020, N 142)
+Nephrotic
Anemic
Urate
Hypertensive
Urinary

In a closed garage, a driver was staying for a long time in his car, with the engine running. After a time he developed a headache and started vomiting. This condition is caused by formation of the following compound: (2020, N 143)
+Carboxyhemoglobin
Cyanmethemoglobin
Myoglobin
Deoxyhemoglobin
Oxyhemoglobin

A patient with croupous pneumonia developed body temperature up to 40 °C. What typy of body temperature is it, based on its elevation? (2020, N 120)
+High
Subfebril
Hyperpyretic
Moderated
-

Gastric secretory function of a patient was analyzed. No hydrochloric acid and enzymes were detected in the gastric juice of the patient. Name this condition: (2020, N 132)
+Achylia
Hyperchlorhydria
Hypochlorhydria
Achlorhydria
Hypoaciditas

A couple came to the genetic consultation for their newborn child to be examined. Karyotype test detects an additional chromosome in the 21 pair. What diagnosis can be made? (2020, N 10; 2019, N 68)
+Down syndrome
Turner syndrome
Edwards syndrome
Patau syndrome
Klinefelter syndrome

A patient, who lives in the area with specific geochemical conditions, was diagnosed with endemic goiter. What microelement deficiency results in development of this pathology? (2020, N 16; 2018, N 53)
+I
Cl
Br
F
Na

During lancing an abscess in the oral cavity, it produces a yellow-green discharge. What cells are always present and predominant in the purulent exudate? (2020, N 21; 2019, N 133)
+Neutrophils
Erythrocytes
Eosinophils
Basophils
Lymphocytes

A 25-year-old man has an appointment with the dentist. Several minutes after his oral cavity was lavaged with furacilin (nitrofurazone) the patient developed significant labial edema. What type of allergic reaction is observed in this case? (2020, N 101; 2018, N 71)
+Anaphylactic
Delayed-type hypersensitivity
Cytolytic
Stimulated
Immune complex

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? (2020, N 148; 2017; 2016, N 26, TB; 2013)
+Arterial hyperemia
Venous hyperemia
Thrombosis
Embolism
Ischemia

The dispensing chemist after conducting a lengthy analysis (psychoemotional stress) developed elevated blood pressure (160/110 mm Hg). What changes in the neurohumoral regulation can be the cause of blood pressure elevation in this case? (2020, N 141; 2014, N 133, TB)
+Sympathoadrenal system activation
Activation of aldosterone synthesis and secretion
Renin-angiotensin system activation
Kallikrein-kinin system activation
Sympathoadrenal system inhibition

A patient develops prolonged hemorrhages and hemorrhages into the muscles and joints as a result of any microtraumas. In the blood there is a deficiency of the VIII plasma factor of blood coagulation. What disease of blood system is observed in this patient? (2019, N1)
+Hemophilia A
Iron-deficiency anemia

B_{12} and folate deficiency anemia
Thrombocytopenic purpura
Vaquez disease (polycythemia vera)

A patient has developed anuria. Blood pressure is 50/20 mm Hg. What process of uropoiesis was disturbed resulting in acute decrease of urine output? (2019, N3)
+Glomerular filtration
Obligate reabsorption
Tubular secretion
-
Facultative reabsorption

After a surgery the patient presented with a severe pain syndrome. What change in the patient's hormonal status is most likely in this case? (2019, N 5)
+Increased catecholamine production
Decreased ACTH production
Deceased production of glucocorticoids
Insulin hypersecretion
Decreased production of mineralocorticoids

What is the mechanism of indirect action of ionizing radiation on cells? (2019, N 18)
+Formation of large amount of free radicals
Chromosome rupture
Swelling of organelles
Formation of large amount of free radicals
Activation of protein biosynthesis
Damage to the cytoplasmic membrance

A patient suffers from diarrhea, dermatitis, and dementia. What vitamin is likely to be deficient in this patient, causing the patient's condition? (2019, N 19)
+Nicotinic acid
Vitamin D
Retinol
Tocopherol
Vitamin K

A 23-year-old man came to the infectious diseases department with complaints of abdominal distension and diarrhea. He was diagnosed with lambliasis. What type of leukocytosis is characteristic of this disease? (2019, N 25)
+Eosinophilic
Basophilic
Monocytic
Lymphocytic
Neutrophilic

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 e is observed in the patient? (2019, N 26)
+Manifest illness stage
Latent stage
Prodromal stage
-
Recovery

An unconscious patient was brought into the intensive care unit. Acetone breath, acute hyperglycemia, and ketonemia are detected. What complication of diabetes mellitus occurred in this case? (2019, N 39)
+Diabetic coma
Nephritis
Hypoglycemic coma
Acute acetone poisoning
Cataract

To reproduce Ehrlich carcinoma in rabbit, a certain amount of benzpyrene (polycyclic aromatic hydrocarbon) was daily applied to a dehaired patch of skin of the animal. What method is used for tumor modelling in this case? (2019, N 40)
+Induction
Transplantation
Explantation
Ionizing radiation
Hormone administration

Examination of a 45-year-old man, who for a long time kept to a vegetarian plant-based diet, revealed him to have negative nitrogen balance. What peculiarity of his diet has caused such developments? (2019, N 59)
+Insufficient protein content
Insufficient fat content
Insufficient vitamin content
Excessive carbohydrate content
Excessive water content

A 42-year-old patient is present with skin pallor, weakness, and enlarged lymph nodes. In peripheral blood: leukocytosis, no intermediate forms of leukocytes (“leukemic hiatus”), accelerated ESR. Which disease can be suspected in this case?
+Acute leukemia
Neutrophilic leukocytosis
Chronic leukemia
Erythromyelosis
Leukemoid reaction

People, who were in the building during a fire, suffer from carbon monoxide poisoning. What type of hypoxia can be observed in this case? (2019, N 77)
+Hemic
Hypoxic
Respiratory
Circulatory
Tissue

A 54-year-old man requested a pharmacist's advice on drug prescription. The patient has 4-year-long history of chronic glomerulonephritis and 2-year-long history of persistent hypertension. What substance synthesized in the kidneys has important role in development of arterial hypertension? (2019, N 77)
+Renin
Aldosterone
Catecholamines
Histamine
Nitric oxide

I.I. Mechnikov, when studying inflammatory process, described a certain order that is characteristic of leucocytes migration to the inflammation focus. The cells emigrate to the focus in the following order: (2019, N 85)
+Neutrophilic granulocytes, monocytes, lymphocytes
Monocytes, lymphocytes, neutrophilic granulocytes
Neutrophilic granulocytes, lymphocytes, monocytes
Monocytes, neutrophilic granulocytes, lymphocytes
Lymphocytes, monocytes, neutrophilic granulocytes

A 55-year-old man came to a doctor with complaints of acute pain in his big toes. Meat and wine are a permanent fixture in his diet. The doctor suspects gout. What substance must be measured in the patient's blood to confirm this diagnosis? (2019, N 98)
+Uric acid
Lactate
Ketone bodies
Bilirubin
Urea

A patient is diagnosed with acute pancreatitis. For diagnostic purpose it is necessaryto measure the activity of the following enzyme in the patient's blood: (2019, N 120)
+Amylase
Creatine kinase
Aldolase
LDH
Pepsin

A patient complains of polyuria. Urine test detects no pathologic components, but urine specific gravity is abnormally low. What hormone secretion is likely to be disturbed in this patient? (2019, N 121)
+Vasopressin
Insulin
Thyrotropin
Somatotropin
Cortisol

One hour after a child took polyvitamin in the dosage form of syrup, the child developed a markedly itching urticaria-type rash all over the body. What type of allergic response can be characterized by this sign? (2019, N 122)
+Anaphylactic
Delayed-type hypersensitivity
Immune complex
Cytotoxic
Autoallergic

After a physical exertion a person develops extra (premature) cardiac contractions. What type of arrhythmia is it? (2019, N 123)
+Extrasystole
Sinus tachycardia
Sinus bradycardia
Paroxysmal tachycardia
Ventricular fibrillation

A 9-year-old child due to acute bronchitis developed elevated body temperature up to 38,5°C that lasted for a week and was then followed by a drop in the temperature down to 37°C. What mechanism is leading at the 3rd stage of fever? (2019, N 130)
+Peripheral vasodilation
Development of chills
Increased heat production
Increased diuresis
Increased respiration rate

A 50-year-old patient in a poor condition was presented to the hospital. Objectively, the skin and visible mucous membranes are cyanotic, arterial blood saturation – 88%, NiBP – 90/60 mm Hg, pulse is 117 per minute, respiratory rate is 22 per minute. From the history it is know that the patient suffers from chronic heart failure. Which of the following types of hypoxia is most likely to develop in this case? (2019, N 155)
+Circulatory
Hypoxic
Hemic
Tissue

Anemic

On X-ray examination of the 59-year-old patient, in the lower lobe of the right lung there was detected a distinct shadow, differential for tumor. It was pre-determined that the tumor is benign. Which of the following features characterized the tumor as benign? (2019, 170)
+Expansive growth
Metastasis
Cancer cachexia
Invasion in surrounding tissues
Infiltrating growth

A 49-year-old woman who suffers from diabetes for a long time has weakness, paleness, palpitation, anxiety, double vision, numbness of lips and the tip of the tongue after insulin administation. The blood glucose level is 2.5 mmol/l. Which of the following complication does this patient develop? (2019, N 173)
+Hypoglycemic coma
Uremic coma
Hyperosmolar coma
Hyperketonemic coma
Hyperglycemic coma

The patient is presented to the hospital with the phenomena of growing respiratory failure. He has clinical signs of bilateral subtotal pneumonia. The clinical diagnosis is confirmed by X-ray examination. What type of respiratory failure does this patient most likely have? (2019, N 179)
+Restrictive
Peripheral
Thoracic diaphragm
Obstructive
Central

A patient suffers from Down’s disease that manifests as mental retardation, shortness of stature, pathologically short fingers and toes, and eyes with mongoloid slant. Karyotype analysis revealed trisomy 21. What group of diseases does this pathology belong to? (2018, N 3)
+Chromosomal disorders
Molecular genetic disease
Gametopathy
Fetopathy
Blastopathy

Hormones regulate numerous metabolic processes. What hormone activates glycogen synthesis? (2018, N 4)
+Insulin
Adrenaline

Vasopressin
Thyroxine
Oxytocin

A patient has developed anuria. Blood pressure is 50/20 mm Hg. What process of uropoiesis was disturbed resulting in acute decrease of urine output? (2018, N 21)
+Glomerular filtration
Obligate reabsorption
Facultative reabsorption
Tubular secretion
–

A 12-year-old boy is of short stature, but his mental development corresponds with that of his age group. What hormone deficiency is the most likely to cause this pathology? (2018, N 22)
+Somatotropin
Insulin
Oxytocin
Vasopressin
Adrenaline

A 10-year-old child has height of 178 cm and body mass of 67 kg. These presentations are caused by the functional disturbance of the: (2018, N 23)
+Pituitary gland
Thyroid gland
Gonads
Adrenal glands
Parathyroid glands

Any damage to the patient’s vessels results in persistent hemorrhage. Blood clotting factor VIII is deficient in the patient’s blood. What disease does this patient suffer from? (2018, N 33)
+Hemophilia
Acute vascular purpura
Thrombocytopenic purpura
Anemia
Radiation sickness

To induce diabetes mellitus in a rabbit, β-cells of pancreatic islets (islets of Langerhans) were selectively damaged with alloxan. What method of diabetes induction was used in this experiment? (2018, N 36)
+Shutdown
Irritation
Introduction of enzymes, hormones
Isolated organs
Stimulation

A patient presents with persistent tachycardia, exophthalmos, high excitability, increased basal metabolic rate. What disorder can lead to the development of this syndrome? (2018, N 39)
+Hyperthyroidism
Hypoparathyroidism
Hypothyroidism
Hyperparathyroidism
Adrenal hypofunction

On examination the patient's sclera and oral mucosa are icteric. What biochemical blood value can be expected to be increased? (2018, N 59)
+Bilirubin
Amylase
Glucose
Albumin
Cholesterol

A patient with gastric carcinoma has undergone several courses of radiation therapy. What system is the first to become functionally disturbed after the body was exposed to ionizing radiation? (2018, N 72)
+Blood
Nervous
Digestive
Urinary
Respiratory

During regular check-up a patient presents with enlarged thyroid gland, exophthalmos, increased body temperature, heart rate up to 110/min. What hormone should be measured in the patient's blood in this case? (2018, N 76)
+Thyroxin
Testosterone
Glucagon
Insulin
Cortisol

Insulin production in β-cells involves many substances. What substance gives the main signal for insulin synthesis when its concentration changes? (2018, N 80)
+Glucose
Carbon dioxide
Heparin
Hemoglobin
Urea

An ophthalmologist has detected increased time of dark adaptation in a patient. What vitamin deficiency can result in such symptom? (2018, N 82)

+A
C
K
B1
B6

When working in the garden, a man accidentally cut his hand. The wound remained untreated. Shortly after that the wounded area developed inflammation with accumulation of exudate that contained numerous viable and degenerate neutrophils. What type of exudate is it? (2018, N 89)
+Purulent
Serous
Fibrinous
Hemorrhagic
Catarrhal

A patient presents with persistent fever, with the difference between evening and morning temperature not exceeding 1°C. What type of fever curve is present in this patient? (2018, N 90)
+Continuous
Remittent
Hectic
Recurrent
Intermittent

Ultraviolet irradiation is used in medicine in various physiotherapeutic procedures. What mechanism of medicinal action is characteristic of ultraviolet rays? (2018, N 99)
+Activation of vitamin D synthesis
Activation of drug action
Decrease of melanin synthesis in the skin
Intensification of cell division
Activation of lipid peroxidation

A patient has a gallstone lodged in the common bile duct, which blocks bile supply to the intestine. What digestive process will be disturbed in this case? (2018, N 101)
+Fat digestion
Protein absorption
Carbohydrate digestion
Carbohydrate absorption
Protein digestion

A 46-year-old patient presents with hyperactivity of creatine kinase in his blood serum. What pathology can be suspected? (2018, N 103)
+Myocardial infarction

Acute pancreatitis
Chronic hepatitis
Hemolytic anemia
Renal failure

A patient is pale, has goose bumps and chills. What stage of fever is it characteristic of? (2018, N 106)
+Temperature increase
Temperature decrease
Continuous fever
Compensation
Latent stage

Ascarids were detected in a sick child. What changes in leukogram will be the most characteristic of helminthiasis? (2018, N 107)
+Eosinophilia
Basophilia
Neutrophilia
Lymphocytosis
Monocytosis

A man received a radiation dose of 30 Gy. He presents with necrotic angina and disorders of the gastrointestinal tract. Blood tests revealed anemia, leukopenia and thrombocytopenia. What stage of acute radiation sickness is observed in the patient? (2018, N 108)
+Manifest illness stage
Prodromal stage
Latent stage
Recover–

A patient suffers from hyperchromic B_{12}-deficiency anemia. What vitamin preparation should be prescribed in this case? (2018, N 122)
+Cyanocobalamin
Riboflavin
Vicasol (Menadione)
Thiamine chloride
Retinol acetate

After a traffic accident the driver presents with increased blood glucose. What mechanism leads to hyperglycemia in this case? (2018, N 125)
+Sympathoadrenal system activation
Increased production of somatotropic hormone
Decreased production of insulin
Decreased production of glucagon
Decreased tone of parasympathetic nervous system

Examination of a 45-year-old man, who for a long time kept to a vegetarian plant based diet, revealed him to have negative nitrogen balance. What peculiarity of his diet has caused such developments? (2018, N 132)
+Insufficient protein content
Insufficient fat content
Insufficient vitamin content
Excessive water content
Excessive carbohydrate content

After severe emotional strain a 53-year-old man suddenly developed acute pain in the heart area, which irradiates to the left hand, to the neck, and under the left scapula. He noted numbness of his left hand. His face is pale and covered in cold sweat. Nitroglycerine administration stopped the pain attack after 10 minutes had passed. What is the most likely disease in this case? (2018, N 133)
+Angina pectoris
Stroke
Myocardial infarction
Pulmonary embolism
Somatoform autonomic dysfunction

During ultrasound investigation a patient was diagnosed with bilateral renal artery stenosis of atherosclerotic genesis. Specify the bioactive substance that due to its excessive secretion is the key component of arterial hypertension pathogenesis in the given case: (2018, N 138)
+Renin
Cortisol
Vasopressin
Noradrenaline
Thyroxin

At the end of his shift a worker of the steel foundry felt dizziness, his body temperature increased to 38.50C. What condition does he present with? (2018, N 143)
+Hyperthermia
Decompression
Fever
Hypothermia
Hypertension

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 this type of pathologic respiration (2018, N 157)
+Kussmaul’s
Cheyne-Stokes’
Gasping
Stenotic

Biot’s

A woman complains of itching lips; they are reddened and covered in scabs and scales after she had been using new lipstick for two weeks. What allergic reactions result in this kind of disorders? (2018, N 169)
+Delayed
Cytotoxic
Immune complex
Anaphylactic
Stimulating

What ion increases osmotic pressure in the focus of inflammation? (2018, N 188)
+Potassium
Calcium
Fluorine
Magnesium
Chlorine

A 55-year-old man came to a doctor with complaints of acute pain in his big toes. Meat and wine are a permanent fixture in his diet. The doctor suspects gout. What substance must be measured in the patient’s blood to confirm this diagnosis? (2018, N 189)
+Uric acid
Urea
Lactate
Bilirubin
Ketone bodies

Upon examination the ophthalmologist diagnosed a 21-year-old woman with visual impairment - hemeralopia (“night blindness”). What drug should this patient take to restore her vision? (2018, N 193)
+Retinol acetate
Ergocalciferol
Suprastin (Chloropyramine)
Cholecalciferol
Sustac forte (Nitroglycerin)

Parents of a 10-year-old child have made an appointment with an endocrinologist due to complaints of the child’s low height. The child’s appearance is corresponding with that of a 5-yearold. What hormone causes such changes in physical development, if its secretion is disturbed? (2017; 2016, N 16, TB; 2014, N 7, TB)
+Somatotropic hormone
Adrenocorticotropic hormone
Thyroxin
Testosterone

Insulin

A person has been stung by a bee. The stung area developed redness and edema. What is the main mechanism of edema development? (2017)
+Increased permeability of the capillaries
Decreased oncotic blood pressure
Increased hydrostatic blood pressure
Decreased osmotic blood pressure
Disturbed lymphatic efflux

Nicotinic acid amide fulfills important metabolic function. What disorder develops, when it is deficient in the organism? (2017)
+Pellagra
Rickets
Anemia
Xerophthalmia
Beriberi

A patient was delivered into a resuscitation unit with signs of alcohol poisoning. The patient developed hypoxia of the following pathogenesis: (2017)
+Tissue
Hypoxic
Hemic
Circulatory
Mixed

Prolonged taking of cytostatic agents resulted in development of necrotic tonsillitis in the patient. It can be associated with the following changes in the leukocyte content: (2017)
+Agranulocytosis
Neutrophilic leukocytosis
Lymphopenia
Eosinopenia
Lymphocytosis

A patient with type I diabetes mellitus developed hyperketonemic coma. What acid-base imbalance will be observed in the patient? (2017)
+Nongaseous acidosis
Gaseous acidosis
Nongaseous alkalosis
Gaseous alkalosis
There will be no acid-base imbalances

Hyperlipemia can be observed in 2-3 hours after eating fatty food. 9 hours later lipid content normalizes again. How can this condition be characterized? (2017)
+Alimentary hyperlipemia

Transport hyperlipemia
Hyperplastic obesity
Retention hyperlipemia
Hypertrophic obesity

A patient presents with icteric sclera and mucous tunics; urine is dark; feces are light-colored. Blood content of direct and indirect bilirubin is increased, urine content of direct bilirubin is increased. What pathology can be characterized by these signs? (2017)
+Obstructive jaundice
Hemolytic jaundice
Hepatocellular jaundice
Jaundice of the newborn
Atherosclerosis

The patient presents with rapid growth of a tumor node and its progressing malignization. What stage of tumor growth can be characterized by these presentations? (2017)
+Progression
Promotion (activation)
Transformation
Exudation
Inactivation

A 55-year-old man, who had been suffering from mitral insufficiency for many years, developed acute heart failure. What pathophysiological type of heart failure can be observed in this case? (2017)
+Due to cardiac overload
Due to hypoxic damage to the heart
Due to coronarogenic damage to the heart
Due to neurogenic damage to the heart
Due to acute cardiac tamponade

Cataract (lenticular opacity) has developed in a 52-year-old woman with diabetes mellitus. Lenticular opacity was caused by intensification of the following processes: (2017; 2016, N 125, TB; 2015, N 128, TB)
+Protein glycosylation
Lipolysis
Ketogenesis
Protein proteolysis
Gluconeogenesis

A patient suffers from hyperchromic B_{12}-deficiency anemia. What vitamin preparation should be prescribed in this case? (2017)
+Cyanocobalamin
Riboflavin

Vicasol (Menadione)
Thiamine chloride
Retinol acetate

A 54-year-old man requested a pharmacist's advice on drug prescription. The patient has 4-year-long history of chronic glomerulonephritis and 2-yearlong history of persistent hypertension. What substance synthesized in the kidneys has important role in development of arterial hypertension? (2017)
+Renin
Nitric oxide
Aldosterone
Histamine
Catecholamines

A patient complains of general weakness, muscle weakness in the extremities (if the patient is asked to make a fist several times in a row, for example, the patient is capable of doing it only once), facial muscles are weak, swallowing is disturbed. Administration of acetylcholinesterase drugs removes these disturbances to a certain degree. Determine the pathology: (2017)
+Myasthenia
Paralysis
Paresis
Hemiplegia
Monoplegia

A 71-year-old woman developed mechanical jaundice due to obstruction of the bile duct with a chololith. Decrease of blood pressure and bradycardia are detected. These changes in functioning of the patient's cardiovascular system are caused by increased blood content of the following substance: (2017)
+Bile acids
Direct bilirubin
Indirect bilirubin
Urobilin
Stercobilin

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: (2017; 2015, N 154, TB)
+Lactose
Glucose
Maltose
Saccharose
Fructose

During routine preventive examination the local pediatrician noticed a boy of short stature. Mental development of the child corresponds with his age. What endocrine disorder is it? (2017)
+Pituitary nanism
Cretinism
Acromegalia
Gigantism
Rickets

A 25-year-old-patient with the II degree thermal burns came to 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: (2017)
+Serous
Catarrhal (mucous)
Fibrinous
Purulent
Hemorrhagic

A patient with brain edema presents with respiration that is characterized by periods of several respiratory movements of equal amplitude alternating with periods of apnea. What pathologic respiration is it characteristic of? (2017)
+Biot's respiration
Gasping respiration
Apneustic respiration
Cheyne-Stokes' respiration
Kussmaul's respiration

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: (2017; 2016, N 192, TB)
+Kussmaul's
Cheyne-Stokes'
Gasping
Stenotic
Biot's

In 9 days after administration of a therapeutic serum the patient developed urticaria, itching, edemas, and lymph nodes enlargement. What type of allergic reaction has occurred in the patient? (2017)
+Immune complex
Cytotoxic
Anaphylactic
Stimulating
Cellular

Exudation is characteristic of inflammation. What factors cause exudation and local edema of the inflamed area? (2017)
+Increased permeability of vessel wall
Hyperglycemia
Ischemia
Leukocyte adhesion to endothelial cells
Decreased permeability of vessel wall

A 55-year-old man came to a doctor with complaints of acute pain in his big toes. Meat and wine remain permanently in his diet. The doctor suspects gout. What substance must be measured in the patient's blood to confirm this diagnosis? (2017)
+Uric acid
Urea
Lactate
Bilirubin
Ketone bodies

The patient's large-focal myocardial infarction is complicated with pulmonary edema. What disturbance of cardiohemodynamics contributed to the pulmonary edema development? (2017)
+Acute left ventricular failure
Acute right ventricular failure
Autoimmune myocarditis
Cardiogenic shock
Reperfusion syndrome

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

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

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

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 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
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