Blood and endocrine system diseases

- 1. Which of the following lymphadenopathy localization is the most likely malignant?
 - A. Anterior cervical
 - B. Posterior cervical
 - C. Preauricular
 - D. Submandibular
 - E. *Supraclavicular
- 2. Children with Down's syndrome have the greatest risk of developing the following malignancy:
 - A. Hodgkin's disease
 - B. Non-Hodgkin's lymphoma
 - C. *Myeloid leukemia
 - D. Neuroblastoma
 - E. Ependymoma
- 3. All the following tests are necessary in the diagnostic of non-Hodgkin's lymphoma EXCEPT:
 - A. *Laparotomy with splenectomy
 - B. Bone biopsy
 - C. Thoracic scanner
 - D. Abdominopelvic scanner
 - E. CBC
- 4. All of the following common finding in acute lymphocytic leukemia EXCEPT:
 - A. Epistaxis
 - B. Fever
 - C. Marked elevation in WBCs
 - D. *Gum hypertrophy
 - E. Lymphadenopathy
- 5. In acute myelocytic leukemia all of the following correct EXCEPT:
 - A. Bone marrow examination is essential diagnosis
 - B. *Philadelphia positive chromosome
 - C. More common in adult
 - D. It is worse prognosis than chronic myeloid leukemia
 - E. Persons with Down's syndrome have higher risk of AML development
- 6. The philadelphia chromosome observed in 90 % of patients with:
 - A. *Chronic myeloid leukemia
 - B. Acute lymphoid leukemia
 - C. Hodgkin's lymphoma
 - D. Acute myeloid leukaemia
 - E. Chronic lymphoid leukaemia
- 7. What is name of the first stage of leukaemia treatment?
 - A. Maintenance of remission
 - B. Consolidation of remission
 - C. *Induction of remission
 - D. Subclinical CNS leukemia prophylaxis
 - E. Prophylaxis of relapse
- 8. What is name of the second stage of leukaemia treatment?
 - A. Maintenance of remission
 - B. Subclinical CNS leukemia prophylaxis
 - C. Induction of remission
 - D. *Consolidation of remission
 - E. Prophylaxis of relapse
- 9. What is name of the third stage of leukaemia treatment?
 - A. *Maintenance of remission
 - B. Consolidation of remission

- C. Induction of remission
- D. Subclinical CNS leukemia prophylaxis
- E. Prophylaxis of relapse
- 10. What is normal lymphoblast concentration in bone marrow?
 - A. Not more than 1 %
 - B. *Not more than 5 %
 - C. Not more than 25 %
 - D. Not more than 35 %
 - E. Not more than 50 %
- 11. What number of lymphoblast in bone marrow prove diagnose of leukemia?
 - A. Any number (they should be absent in healthy)
 - B. More than 5 %
 - C. More than 10 %
 - D. *More than 25 %
 - E. More than 50 %
- 12. What test is definitive for leukemia diagnostic?
 - A. Lymph node biopsy
 - B. CT-scan
 - C. Complete blood count
 - D. *Bone marrow smear
 - E. Coagulogram
- 13. All the following are poor prognostic signs in leukemia EXCEPT of:
 - A. High WBC count
 - B. Presence of chromosomes translocations
 - C. Blasts with T-cell phenotype.
 - D. Age less than 1 year old
 - E. *Female sex
- 14. All the following are good prognostic signs in leukemia EXCEPT of:
 - A. Low WBC count
 - B. Absence of L3 cells
 - C. Platelet count greater 100 G/L
 - D. *Age less than 1 year old
 - E. Absence of lymphomatous features
- 15. The atrophyc glossitis is the typical symptom of the:
 - A. Hemolytic anemia
 - B. Acute leukemia
 - C. *B12-deficiency anemia
 - D. Iron-deficiency anemia
 - E. ITP
- 16. The most sensitive and accurate laboratory determination in the diagnosis of iron-deficiency anemia nd in monitoring the treatment of the disease is
 - A. The serum iron level
 - B. *The serum ferritin level
 - C. The hemoglobin level
 - D. The total iron-binding capacity
 - E. Hemoglobin electrophoresis
- 17. The highest hemoglobin level normally is present in:
 - A. *Newborns
 - B. Six months old infants
 - C. Adolescence
 - D. Young adult male
 - E. Pregnant woman
- 18. Which of the following is INCORRECT concerning aplastic anemia?
 - A. Can be caused by drugs

- B. There is decreased platelet counts
- C. *Bone marrow may show increased number of megakaryocytes
- D. Bone marrow may show decreased red cell formation
- E. Can be elevation of serum iron
- 19. All of the following conditions are characterized by hypochromic, microcytic red cells EXEPT:
 - A. Iron deficiency anemia
 - B. alfa thalassemia major
 - C. beta thalassemia minor
 - D. *G6PD deficiency
 - E. anemia of chronic disease
- 20. Which of the following statements regarding the anemia of chronic disease is true?
 - A. MCV is elevated
 - B. Serum iron level is elevated
 - C. Serum iron-binding capacity is elevated
 - D. *Marrow iron stores are increased
 - E. Iron therapy is required to raise hemoglobin level
- 21. Hemolytic-uremic syndrome is a disorder of which of the following?
 - A. The red cell membrane
 - B. *The vascular endothelium
 - C. Hemoglobin
 - D. The glycolytic pathway
 - E. Immune regulation
- 22. Which of the following hemolytic anemias is NOT associated with an intracorpuscular defect?
 - A. Hereditary sherocytosis
 - B. Sickle cell anemia
 - C. *Autoimmune hemolytic anemia
 - D. G6PD deficiency
 - E. Hereditary elliptocytosis
- 23. Which of the following is NOT a characteristic of Fanconi's anemia?
 - A. *Hematologic abnormalities in infancy
 - B. Pancytopenia
 - C. Skeletal abnormalities
 - D. Chromosome fragility
 - E. Renal abnormalities
- 24. What level of hemoglobin is suggestive of anemia in children between 6 month to 5 years old?
 - A. *Below 110 g/L
 - B. Below 120 g/L
 - C. Below 130 g/L
 - D. Below 140 g/L
 - E. Below 150 g/L
- 25. What level of hemoglobin is suggestive of anemia in children older than 5 years old?
 - A. *Below 12 g/L
 - B. Below 13 g/L
 - C. Below 14 g/L
 - D. Below 15 g/L
 - E. Below 16 g/L
- 26. All of the following conditions are characterized by hypochromic, microcytic red cells EXEPT:
 - A. Lead poisoning
 - B. Beta thalassemia major
 - C. Pyridoxine responsive anemia

- D. *Sickle cell disease
- E. Dyserythropoietic anemia
- 27. Choose the condition which is characterized by hypochromic, microcytic anemia:
 - A. Iron deficiency
 - B. Beta thalassemia major
 - C. Pyridoxine responsive anemia
 - D. Lead poisoning
 - E. *All is correct
- 28. Choose the condition which is characterized by normochromic, normocytic anemia:
 - A. Iron deficiency
 - B. Beta thalassemia major
 - C. Pyridoxine responsive anemia
 - D. Lead poisoning
 - E. *Fanconi's anemia
- 29. Which of the following tests is the most helpful in diagnosis of thalassemia:
 - A. Serum iron and iron binding capacity
 - B. Bone marrow examination
 - C. *Hemoglobin electrophoresis
 - D. Coomb's test
 - E. Platelets level
- 30. Anemia characterized by increase RBCs production is:
 - A. Iron-deficiency anemia
 - B. *Hereditary Spherocytosis
 - C. Fanconi's Anemia
 - D. Anemia of chronic disease
 - E. Megaloblastic anemia
- 31. All the following can be associated with sickle cell anemia EXCEPT:
 - A. Vaso-occlusive crisis
 - B. Infection
 - C. *Bleeding disease
 - D. Splenic sequestration
 - E. Acute chest syndrome
- 32. Which of the following haemoglobin (Hb) estimation will be diagnostically helpful in a case of beta thalassemia trait?
 - A. Hb-S
 - B. Hb-C
 - C. *Hb-A2
 - D. Hb-A
 - E. Hb-C2
- 33. All of the following are true of? thalassemia major, except:
 - A. Splenomegaly
 - B. Target cells on peripheral smear
 - C. Microcytic hypochromic anemia
 - D. *Increased osmotic fragility
 - E. Growth failure
- 34. Choose the essential links of a hemostasis:
 - A. Vascular integrity
 - B. Qualitative and quantative characteristics of platelets
 - C. Presence of coagulation factors in blood
 - D. All is incorrect
 - E. *All is correct
- 35. What is the synonym of the Schonlein-Henoch purpura?
 - A. Idiopathic thrombocytopenic purpura
 - B. Von Willebrand disease

- C. *Hemorrhagic vasculitis
- D. Fanconi pancytopenia
- E. Allergic dermatitis
- 36. What is NOT the synonym of the hemorrhagic vasculitis?
 - A. *Von Willebrand disease
 - B. Schonlein-Henoch purpura
 - C. Allergic angiitis
 - D. Anaphylactoid purpura
 - E. Henoch-Schonlein disease
- 37. All the following disorders are associated with prolonged bleeding time EXEPT:
 - A. *Hemophilia A
 - B. von Willebrand's disease
 - C. Aspirin-induced thrombocytopathia
 - D. Bernard-Soulier syndrome
 - E. ITP
- 38. Patients with DIC present with all of the following hematologic abnormalities EXEPT:
 - A. Thrombocytopenia
 - B. Microangiopathic blood smear
 - C. Hypofibrinogenemia
 - D. Prolonged PTT
 - E. *Low levels of fibrin degradation products
- 39. The most common cause for acute onset of thrombocytopenia in an otherwise well child is:
 - A. von Willebrand disease
 - B. Acute leukemia
 - C. *Idiopathic (immune) thrombocytopenic purpura
 - D. Aplastic anemia
 - E. Thrombotic thrombocytopenic purpura
- 40. Choose the correct statement concerning ITP in children:
 - A. 60 to 80 % of children who present with acute ITP will have spontaneous resolution of their ITP ithin 6 mo
 - B. Less than 1 % will develop intracranial hemorrhage
 - C. About 10 to 20 % of children who present with acute ITP go on to develop chronic ITP
 - D. The presence of abnormal finding such as hepatosplenomegaly or remarkable lymphadenopathy suggests another diagnosis
 - E. *All is correct
- 41. Choose the INCORRECT statement concerning ITP in children:
 - A. 60 to 80 % of children who present with acute ITP will have spontaneous resolution of their ITP ithin 6 mo
 - B. *Intracranial hemorrhage is very frequent complication of acute ITP
 - C. About 60 to 80 % of children who present with acute ITP go on to develop chronic ITP
 - D. The presence of abnormal finding such as hepatosplenomegaly or remarkable lymphadenopathy suggests another diagnosis
 - E. All is correct
- 42. What maximal level of thrombocytes is suggestive for ITP?
 - A. Less than 250,000/mm3
 - B. Less than 180,000/mm3
 - C. *Less than 150,000/mm3
 - D. Less than 100,000/mm3
 - E. Less than 50,000/mm3
- 43. What laboratory findings are typical for acute ITP?
 - A. Anemia and thrombocytopenia
 - B. *Isolated thrombocytopenia

- C. Thrombocytopenia and leukocytosis
- D. Thrombocytopenia and leucopenia
- E. Presence of blasts
- 44. What bone marrow examination results are typical for acute ITP?
 - A. *Normal granulocytic and erythrocytic series with increased number of megakaryocytes
 - B. Decreased granulocytic, erythrocytic and megakaryocytic series
 - C. Increased granulocytic, erythrocytic and megakaryocytic series
 - D. Decreased granulocytic and erythrocytic series with increased number of megakaryocytes
 - E. Increased granulocytic and erythrocytic series with decreased number of megakaryocytes
- 45. If the VII plasma coagulation factor is decreased, it will be abnormal:
 - A. Platelets count
 - B. Prothrombin time
 - C. *Clotting time
 - D. Amount of fibrinogen
 - E. Bleeding time
- 46. If the IX plasma coagulation factor is decreased, it will be abnormal:
 - A. *Partial thromboplastin time
 - B. Thrombin time
 - C. Clotting time
 - D. Amount of fibrinogen
 - E. Bleeding time
- 47. What rush characteristics are typical for ITP?
 - A. Polymorphous
 - B. Polychromatic
 - C. Asymmetric
 - D. Petechiae and purpura
 - E. *All is correct
- 48. Which rush characteristic is NOT typical for ITP?
 - A. Polymorphous
 - B. Polychromatic
 - C. *Symmetric
 - D. Petechial
 - E. Purpuric
- 49. What is normal time of plasma recalcification?
 - A. 20-40 sec
 - B. *60-120 sec
 - C. 160-180 sec
 - D. 200-250 sec
 - E. 250-300 sec
- 50. What is normal partial thromboplastin time?
 - A. 5-10 sec
 - B. 15-20 sec
 - C. *25-35 sec
 - D. 40-60 sec
 - E. 80-120 sec
- 51. What is normal prothrombin time?
 - A. 2-5 sec
 - B. *10-12 sec
 - C. 20-22 sec
 - D. 40-60 sec
 - E. 80-120 sec

- 52. What is normal bleeding time by Duke? 30-60 sec A. 1-2 min B. C. *2-5 min 5-10 min D. 10-15 min \mathbf{E} 53. What is normal clotting time by Lee-White? A. 30-60 sec 1-2 min B. 2-5 min C. D. *5-10 min E. 10-15 min 54. Choose the CORRECT statement concerning ITP treatment: It doesn't require treatment Α. *Children who have platelet counts > 30,000/mm3 and are asymptomatic or have B. only minor purpura do not require routine treatment C. Children who have platelet counts < 10,000/mm3 and are asymptomatic or have only minor purpura do not require routine treatment Treatment doesn't depend on the platelets level and is performed only in D. bleedings All is incorrect E. 55. What medicines are the most effective in ITP treatment? *Intravenous immune globulin (IVIG) and prednisone A. Antibiotics and non-steroid anti-inflammatory В. C. Slow acting antirheumatoid drugs (SAARDS) and cytostatics Whole blood transfusion D. E. Bone marrow transplantation 56. What is usual prednisolone dose for ITP treatment? 0.1-0.2 mg/ kg/dayA. B. *1-2 mg/kg/day 3-4 mg/kg/day C. 10 mg/kg/weekly D. 30 mg/kg/day 57. What does NOT include supportive care in acute ITP? Restriction of physical activities A. Avoidance of aspirin B. Avoidance of intramuscular injections C. *Daily massages D. E. Hypoallergic diet 58. Choose the optimal age for splenectomy in ITP (in case of need): Till 1 year A. 1-2 years В. 3-4 years C. 4-5 years D. *After 6 years 59. Intracranial hemorrhage in ITP is the most common when platelets count is: More 50.000/mm3 A. Below 50,000/mm3 В. C. More 20,000/mm3
- 60. The classic triad of the Wiskott-Aldrich syndrome includes: Thrombocytopenia, mental retardation and immunodeficiency A.

*Below 20,000/mm3 Below 100,000/mm3

D.

- B. Thrombocytosis, mental retardation and immunodeficiency

- C. *Thrombocytopenia, eczema and immunodeficiency
- D. Thrombocytosis, eczema and immunodeficiency
- E. Thrombocytopenia, eczema and seizures
- 61. What is the etiology of the Wiskott-Aldrich syndrome:
 - A. *X-linked recessive
 - B. Autosomal recessive
 - C. Autosomal dominant
 - D. Infectious
 - E. Autoimmune
- 62. Choose the thrombocytopathia with thrombocytopenia:
 - A. Glanzmann's thromboasthenia
 - B. Gray platelet syndrome
 - C. Thrombosis
 - D. Dence body deficiency
 - E. *Bernard Soulier syndrome
- 63. Choose the platelets disorder with normal platelets count:
 - A. *Glanzmann's thromboasthenia
 - B. ITP
 - C. Bernard Soulier syndrome
 - D. TAR-syndrome
 - E. Wiskott-Aldrich syndrome
- 64. An infant or young child with ITP, which was undergone splenectomy, has an increase risk of:
 - A. Thrombocytosis
 - B. Polycytemia
 - C. Leukemia
 - D. *Severe bacterial infection
 - E. Hemolytic anemia
- 65. Choose the correct statement concerning idiopathic thrombocytopenic purpura in children:
 - A. *Often follows a viral infection
 - B. Typically has a chronic course, with relapses following each remission
 - C. Is characteristically associated with splenomegaly
 - D. Is associated with reduction of megacaryocytes on bone marrow examination
 - E. Requires splenectomy in more than 20 % cases
- 66. Platelet transfusion may be indicated in patients with:
 - A. Haemophylia
 - B. Henoch- Schoenlein purpura
 - C. *Aplastic anemia
 - D. Chronic ITP
 - E. Lupus erythematosus
- 67. Choose the INCORRECT statement concerning hemophilia A:
 - A. All males with defective gene have hemophilia
 - B. *It's inherited in an autosomal dominant pattern
 - C. 100% of daughter's of hemophilic man will be carriers
 - D. It's the most common type of hemophylia
 - E. There is factor VIII deficiency
- 68. What is the synonym of idiopathic thrombocytopenic purpura?
 - A. Von Willebrand's disease
 - B. *Werlhof's disease
 - C. Schonlein-Henoch purpura
 - D. Bernard-Soulier syndrome
 - E. All is incorrect
- 69. What symptom is the most indicative for platelets problems?
 - A. Delayed bleeding from old wounds

- B. Hemorrhage into joint space
- C. Bleeding from multiple sites
- D. *Presence of petechiae on skin and mucosal surfaces
- E. Gastrointestinal bleeding
- 70. What symptom is NOT indicative for platelets problems?
 - A. *Delayed bleeding from old wounds
 - B. Epistaxis
 - C. Hematuria
 - D. Menorrhagia
 - E. Gastrointestinal bleeding
- 71. What symptom is the most indicative for DIC syndrome?
 - A. Delayed bleeding from old wounds
 - B. Hemorrhage into joint space
 - C. *Bleeding from multiple sites
 - D. Presence of petechiae on skin and mucosal surfaces
 - E. Gastrointestinal bleeding
- 72. What is the inheritance pattern of the von Willebrand disease?
 - A. X-linked
 - B. Y-linked
 - C. *Autosomal dominant
 - D. Autosomal recessive
 - E. It is aguired problem
- 73. What is the inheritance pattern of the hemophilia?
 - A. *X-linked
 - B. Y-linked
 - C. Autosomal dominant
 - D. Autosomal recessive
 - E. It is aguired problem
- 74. What is the inheritance pattern of the Shoenlein-Genoch's disease?
 - A. X-linked
 - B. Y-linked
 - C. Autosomal dominant
 - D. Autosomal recessive
 - E. *It is an acquired problem
- 75. What is the inheritance pattern of the hemophilia C?
 - A. X-linked
 - B. Y-linked
 - C. Autosomal dominant
 - D. *Autosomal recessive
 - E. It is aguired problem
- 76. The Christmas disease is the synonym of the:
 - A. Hemophilia A
 - B. *Hemophilia B
 - C. Hemophilia C
 - D. Hemorrhagic vasculitis
 - E. Thrombocytopenic purpura
- 77. The reason of hemophilia A is:
 - A. Factor VII deficiency
 - B. *Factor VIII deficiency
 - C. Factor IX deficiency
 - D. Factor XI deficiency
 - E. Vitamin K deficiency
- 78. The reason of hemophilia B is:
 - A. Factor VII deficiency

- B. Factor VIII deficiency
- C. *Factor IX deficiency
- D. Factor XI deficiency
- E. Vitamin XII deficiency
- 79. The reason of hemophilia C is:
 - A. Factor VII deficiency
 - B. Factor VIII deficiency
 - C. Factor IX deficiency
 - D. *Factor XI deficiency
 - E. Vitamin XII deficiency
- 80. What index is the specific for the von Willebrand disease diagnostic in difference from other oagulation disorders?
 - A. Time of bleeding
 - B. PTT
 - C. Time of clotting
 - D. *Ristocetin cofactor activity
 - E. Platelets level
- 81. What coagulation factor is NOT vitamin K dependent?
 - A. Factor II
 - B. *Factor V
 - C. Factor VII
 - D. Factor IX
 - E. Factor X
- 82. What coagulation factor measurement is useful to distinguish liver disease from vitamin K deficiency?
 - A. Factor II
 - B. *Factor V
 - C. Factor VII
 - D. Factor IX
 - E. Factor X
- 83. What coagulation factor measurement is useful to distinguish DIC from vitamin K deficiency and liver disease?
 - A. Factor II
 - B. Factor V
 - C. *Factor VIII
 - D. Factor IX
 - E. Factor X
- 84. What is platelet survival time in healthy persons?
 - A. 1-2 days
 - B. *7-10 days
 - C. 20-30 days
 - D. 50-60 days
 - E. 120 days
- 85. What is the indication for bone marrow evaluation in ITP?
 - A. Nasal bleedings
 - B. *If steroid therapy is to be used
 - C. Isolated thrombocytopenia
 - D. Numerous skin petechia
 - E. All is correct
- 86. What is NOT indication for bone marrow evaluation in ITP?
 - A. *Nasal bleedings
 - B. If steroid therapy is to be used
 - C. Other cell lines (besides of platelets) are involved
 - D. Weight loss

- E. Splenomegaly
- 87. What medicines give the best and the fastest response in the most children with ITP?
 - A. Glucocorticoids
 - B. *IVIG (Intravenous immune globulin)
 - C. Anti-D immunoglobulin
 - D. Splenectomy
 - E. Cytostatics
- 88. What should be minimal persistence of acute ITP to define it as a chronic ITP?
 - A. More than 1 month
 - B. More than 3 6 months
 - C. *More than 6 12 months
 - D. More than 18 24 months
 - E. More than 36 months
- 89. Initially urticarial lesions which may itch or burn and then develop into pink maculopapules are typical for the:
 - A. von Willebrand's disease
 - B. Wiskott-Aldrich syndrome
 - C. Hemophilia A
 - D. *Hemorrhagic vasculitis
 - E. ITP
- 90. Which organ involvement is typical for Schoenlein-Henoch purpura?
 - A. Kidneys
 - B. GI tract
 - C. Musculosceletal system
 - D. Scrotum
 - E. *All is correct
- 91. Scrotal involvement with epididimidis, orchitis, testicular torsion and scrotal bleeding are typical for the:
 - A. von Willebrand's disease
 - B. Wiskott-Aldrich syndrome
 - C. Hemophilia A
 - D. *Hemorrhagic vasculitis
 - E. ITP
- 92. Renal involvement which ranges in severity from microscopic hematuria to nephritic syndrome is typical for the:
 - A. *Schoenlein-Henoch purpura
 - B. Wiskott-Aldrich syndrome
 - C. Hemophilia A
 - D. von Willebrand's disease
 - E. Werlhof's disease
- 93. What are the characteristic laboratory findings in Schoenlein-Henoch purpura?
 - A. Prolonged time of bleeding and thrombocytopenia
 - B. Prolonged thromboplastin time and PTT
 - C. Prolonged clotting time and leukocytosis
 - D. *Elevated Ig A and leukocytosis
 - E. Elevated Ig A and thrombocytopenia
- 94. Joint involvement with periarticular swelling of the knees, ankles, wrists and elbows is typical for the:
 - A. *Schonlein-Henoch purpura
 - B. Wiskott-Aldrich syndrome
 - C. Hemophilia A
 - D. von Willebrand's disease
 - E. Werlhof's disease
- 95. Treatment for the patient with in the Hashimoto thyroiditis includes:

Iodine A. *Hormonal replacement therapy if she becomes hypothyroid В. C. PTU (propylthiouracil) Psychiatry consult D. Surgical removal of thyroid gland E. 96. What is the main etiologic medicine in thyroid storm? Insulin A. Methimazole B. **Propranolol** C. *Propylthiouracil D. E. Prednisone 97. What is the alternative (second) etiologic medicine in thyroid storm? Insulin A. B. *Methimazole C. Propranolol D. Propylthiouracil E. Prednisone 98. What is the medicine for minimizing of tachycardia and hypertension in thyroid storm? **Dopamin** A. В. Methimazole C. *Propranolol Propylthiouracil D. Prednisone E. 99. What is mechanism of propylthiouracil action in thyroid storm? *Blocks peripheral conversion of T4 to T3 A. Increase TSH secretion with pituitary gland В. Decrease TSH secretion with pituitary gland C. Stimulates peripheral conversion of T4 to T3 D. Stumulates TRH secretion with hypothalamus E. 100. What is daily hydrocortizon dose for continuous infusion in adrenal crisis? A. 1-2 mg/kg5-10 mg/kg B. C. *10-15 mg/kg 15-20 mg/kg D. 20-25 mg/kg E. 101. What symptom is NOT typical for Grave's disease? Nervousness A. Moist skin В. C. *Bradycardia D. Tremor Exophthalmia E. 102. What symptom is NOT typical for Grave's disease? *Mental retardation A. B. Moist skin C. Tachycardia D. Tremor Exophthalmia E. 103. What symptom is typical for Grave's disease? Jaundice A. В. *Moist skin Bradycardia C.

D.

E.

104.

Mental retardation

What symptom is typical for Grave's disease?

Obesity

Dry skin В. C. Bradycardia Mental retardation D. E. *Tremor 105. What hormones are secreted by adenohypophysis? Growth hormone, ACTH, aldosterone A. B. Growth hormone, ACTH, antidiuretic hormone Parathyroid hormone, TSH, luteinizing hormone C. *ACTH, TSH, luteinizing hormone D. E. Growth hormone, ACTH, glucagons 106. Name the target organ of somatotropic hormone? *Bone A. В. Mammary gland C. **Testis** D. Stomach E. Thyroid gland 107. Witch hypophyseal hormone has antidiuretic action? Somatotropic hormone (STH) A. B. Adrenocorticotrophic hormone (ACTH) C. *Thyroid-stimulating hormone (TSH) Vasopressin D. Oxytocin Name the target organ of prolactin? 108. A. Bone *Mammary gland В. C. **Testis** D. Stomach E. Thyroid gland 109. Epinephrine is produced by: A. Cortex of adrenal glands Zona glomerulosa of adrenal glands B. C. Zona reticularis of adrenal glands Zona fasciculata and reticularis of adrenal glands D. E. *Medulla of adrenal glands Glucocorticoids are produced by: 110. *Cortex of adrenal glands A. Zona glomerulosa of adrenal glands В. C. Zona reticularis of adrenal glands D. Zona fasciculata and reticularis of adrenal glands Medulla of adrenal glands E. 111. What glands are the regulators of all endocrine system? *Hypothalamus and hypophysis A. В. Hypophysis and epiphysis C. Hypothalamus and epiphysis D. Hypothalamus, hypophysis and epiphysis **Hypothalamus** E. 112. Sex hormones (androgens, estrogens, progesterone) are produced by: Cortex of adrenal glands A. В. Zona glomerulosa of adrenal glands C. *Zona reticularis of adrenal glands Zona fasciculata and reticularis of adrenal glands D. E. Medulla of adrenal glands 113. Mineralocorticoids are produced by: Cortex of adrenal glands A.

Obesity

A.

B. *Zona glomerulosa of adrenal glands C. Zona reticularis of adrenal glands D. Zona fasciculata and reticularis of adrenal glands Medulla of adrenal glands E. Acromegaly is the result of: Hypersecretion of growth hormone in the childhood A. *Hypersecretion of growth hormone in the elder age В. C. Hypersecretion of adrenocorticotropic hormone in the elder age D. Hyposecretion of growth hormone in the childhood Hypersecretion of adrenocorticotropic hormone in the childhood Gigantism is the result of: A. *Hypersecretion of growth hormone in the childhood Hypersecretion of growth hormone in the elder age B. C. Hypersecretion of adrenocorticotropic hormone in the elder age Hyposecretion of growth hormone in the childhood D. E. Hypersecretion of adrenocorticotropic hormone in the childhood Growth hormone deficiency is usually associated with: A. *Hypopituitarism Hypothyroidism В. C. Hypogonadism Hypoaldosteronism D. Hypoinsulinism E. What hormone is secreted by adenohypophysis? A. Aldosterone *Growth hormone B. C. Parathyroid hormone D. Vasopressin Glucagon E. What hormone is secreted by neurohypophysis? A. Aldosterone В. Growth hormone Parathyroid hormone C. D. *Vasopressin Glucagon E. In the female the analogue of male's interstitial cell-stimulating hormone (ICSH) is: Prolactin A. B. Melanocyte-stimulating hormone C. *Luteinizing hormone D. Estradiol Cortisol E. What process is controlled with parathyroid glands? Protein metabolism A. Lipid metabolism В. *Phosphoric-calcium metabolism C. Vitamin metabolism D. Carbohydrates metabolism What is hypopinealism? Hypothalamus hypofunction A. *Epiphysis hypofunction В. Hypophysis hypofunction C. Adrenals hypofunction D. Testis hypofunction E.

114.

115.

116.

117.

118.

119.

120.

121.

122.

A.

Dwarfism can be caused with?

Epinephrin deficiency

- B. Cortisol deficiency
- C. Glucagon deficiency
- D. Prolactin deficiency
- E. *Somatotropin deficiency
- 123. What does appear in the case of growth hormone hyposecretion?
 - A. Addison's disease
 - B. Diabetes mellitus
 - C. *Dwarfism
 - D. Acromegaly
 - E. Cushing's disease
- 124. Simmond's disease is the result of dysphunction of:
 - A. Hypothalamus
 - B. *Pituitary gland
 - C. Thyroid gland
 - D. Adrenal gland
 - E. Gonads
- 125. What are the clinical features of Addison's disease?
 - A. Pale color of skin, fatigue, sexual development retardation, obesity
 - B. Dry skin, thirst, polyuria, weight loss
 - C. Moist skin, ophthalmic symptoms, tachycardia
 - D. Dry skin, edemas, mental development retardation, bradycardia
 - E. *Dark color of skin, fatigue, weight loss, hypotension
- 126. What is another name of Addison's disease?
 - A. *Chronic adrenal insufficiency
 - B. Congenital hypothyroidism
 - C. Congenital adrenal hyperplasia
 - D. Acquired hyperthyroidism
 - E. Hyperadrenocorticism
- 127. What is another name of Conn's syndrome?
 - A. Chronic adrenal insufficiency
 - B. *Congenital hyperaldosteronism
 - C. Congenital adrenal hyperplasia
 - D. Acquired hyperthyroidism
 - E. Hyperadrenocorticism
- 128. What is another name of Cushing syndrome?
 - A. Chronic adrenal insufficiency
 - B. Congenital hyperaldosteronism
 - C. Congenital adrenal hyperplasia
 - D. Acquired hyperthyroidism
 - E. *Hyperadrenocorticism
- 129. What are the clinical features of Cushing syndrome?
 - A. *Purple striae on skin, fatigue, hirsutism, obesity
 - B. Dry skin, thirst, polyuria, weight loss
 - C. Moist skin, ophthalmic symptoms, tachycardia
 - D. Dry skin, edemas, mental development retardation, bradycardia
 - E. Dark color of skin, fatigue, weight loss, hypotension
- 130. What is laboratory method of Cushing syndrome diagnostic?
 - A. Serum calcium estimation
 - B. Estimation of 17-ketosteroids level in urine
 - C. Iodine excretion test
 - D. Glucose tolerance test (GTT)
 - E. *24-hour urine test for free cortisol
- 131. What laboratory method should be used to differentiate Cushing syndrome from Cushing disease?

- A. 24-hour urine test for free cortisol
- B. Estimation of 17-ketosteroids level in urine
- C. The measurement of 17-hydroxyprogesterone in serum
- D. Glucose tolerance test (GTT)
- E. *Dexamethasone suppression test
- 132. What is laboratory method of Addison's disease diagnostic?
 - A. *Estimation of electrolytes and cortisol level in plasma
 - B. Estimation of 17-ketosteroids level in urine
 - C. The measurement of 17-hydroxyprogesterone in serum
 - D. Glucose tolerance test (GTT)
 - E. Dexamethasone suppression test
- 133. What are the clinical features of hypothyroidism?
 - A. Pale color of skin, fatigue, sexual development retardation, obesity
 - B. Dry skin, thirst, polyuria, weight loss
 - C. Moist skin, ophthalmic symptoms, tachycardia
 - D. *Dry skin, edemas, mental development retardation, bradycardia
 - E. Dark color of skin, fatigue, weight loss, hypotension
- 134. What is another name of Grave's disease?
 - A. Chronic adrenal insufficiency
 - B. Congenital hypothyroidism
 - C. Congenital adrenal hyperplasia
 - D. *Acquired hyperthyroidism
 - E. Hyperadrenocorticism
- 135. What is another name of mixedema?
 - A. Chronic adrenal insufficiency
 - B. *Acquired hypothyroidism
 - C. Congenital adrenal hyperplasia
 - D. Congenital hypothyroidism
 - E. Hyperadrenocorticism
- 136. What examination is the most helpful to prove the diagnosis of congenital hypothyroidism?
 - A. Ultrasound of thyroid gland
 - B. *Serum thyroid-stimulating hormone (TSH)
 - C. Serum iodine
 - D. MRI of thyroid gland
 - E. Excretion of iodine with urine
- 137. What examination is the most helpful to prove the diagnosis of endemic goiter?
 - A. Ultrasound of thyroid gland
 - B. Serum thyroid-stimulating hormone (TSH)
 - C. *Serum iodine
 - D. MRI of thyroid gland
 - E. Excretion of cortisol with urine
- 138. What are the clinical features of Grave's disease?
 - A. Pale color of skin, fatigue, sexual development retardation, obesity
 - B. Dry skin, thirst, polyuria, weight loss
 - C. *Moist skin, ophthalmic symptoms, tachycardia
 - D. Dry skin, edemas, mental development retardation, bradycardia
 - E. Dark color of skin, fatigue, weight loss, hypotension
- 139. Choose the correct statement about hormones in Grave's disease?
 - A. Increase T3 and T4, increase TSH
 - B. *Increase T3 and T4, decrease TSH
 - C. Increase T3 and T4, normal TSH
 - D. Decrease T3 and T4, increase TSH
 - E. Normal T3 and T4, decrease TSH

A. Increase T3 and T4, increase TSH B. Increase T3 and T4, decrease TSH C. Increase T3 and T4, normal TSH D. *Decrease T3 and T4, increase TSH E. Normal T3 and T4, decrease TSH E. Normal T3 and T4, decrease TSH What is another name of Hashimoto disease? A. *Autoimmune thyroiditis B. Acquired hypothyroidism C. Endemic goiter D. Congenital hypothyroidism E. Acquired hyperthyroidism How many hormones types are secreted with thyroid gland? A. 5 B. 4 C. 3 D. *2 E. 1 143. Choose the most correct definition of I stage goiter: A. No palpable or visible goiter B. *Goiter is palpable but not visible when the neck is in the normal position C. Goiter that is visible and palpable when the neck is in a normal position D. Goiter that is visible only when neck is fully extended Choose the most correct definition of II stage goiter: A. No palpable or visible goiter B. Goiter that is visible only when neck is fully extended Choose the most correct definition of II stage goiter: A. No palpable or visible goiter B. Goiter that is visible only when neck is fully extended Choose the most correct definition of II stage goiter: A. No palpable or visible goiter B. Goiter that is visible and palpable when the neck is in a normal position C. *Goiter that is visible only when neck is fully extended How many stages of goiter in endocrinology according WHO classification do know? A. 5 B. 4 C. *3 D. 2 E. 1 What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism C. Congenital adrenal hyperplasia
C. Increase T3 and T4, normal TSH D. *Decrease T3 and T4, increase TSH E. Normal T3 and T4, decrease TSH Hatl. What is another name of Hashimoto disease? A. *Autoimmune thyroiditis B. Acquired hypothyroidism C. Endemic goiter D. Congenital hypothyroidism How many hormones types are secreted with thyroid gland? A. 5 B. 4 C. 3 D. *2 E. 1 Choose the most correct definition of I stage goiter: A. No palpable or visible goiter B. *Goiter is palpable but not visible when the neck is in the normal position C. Goiter that is visible and palpable when the neck is in a normal position D. Goiter that is visible only when neck is fully extended E. Goiter that is visible goiter A. No palpable or visible goiter A. No palpable or visible goiter B. Goiter that is visible only when neck is fully extended Choose the most correct definition of II stage goiter: A. No palpable or visible goiter B. Goiter that is visible and palpable when the neck is in a normal position C. *Goiter that is visible goiter B. Goiter that is visible goiter A. No palpable or visible goiter B. Goiter that is visible and palpable when the neck is in a normal position C. *Goiter that is visible and palpable when the neck is in a normal position C. *Goiter that is visible only when neck is fully extended How many stages of goiter in endocrinology according WHO classification do know? A. 5 B. 4 C. *3 D. 2 E. 1 146. What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism
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A. No palpable or visible goiter B. Goiter is palpable but not visible when the neck is in the normal position C. *Goiter that is visible and palpable when the neck is in a normal position D. Goiter that is palpable only when neck is fully extended E. Goiter that is visible only when neck is fully extended How many stages of goiter in endocrinology according WHO classification do know? A. 5 B. 4 C. *3 D. 2 E. 1 What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism
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C. *3 D. 2 E. 1 What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism
D. 2 E. 1 146. What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism
E. 1 What is another name of cretinism? A. Chronic adrenal insufficiency B. Acquired hypothyroidism
A. Chronic adrenal insufficiencyB. Acquired hypothyroidism
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B. Acquired hypothyroidism
1 71 7
C. Congenitur aurenar fryddigia
D. *Congenital hypothyroidism
E. Hyperadrenocorticism
147. What symptom is NOT typical for Cushing syndrome?
A. *Hypoglycaemia
B. Moon-like face
C. Hirsutism
D. Striae on skin
E. Acne vulgaris
148. What symptom is NOT typical for Cushing syndrome?
A. Hyperglycaemia B. Moon-like face
A. Hyperglycaemia

*Hypotonia E. 149. What is typical symptom of mixedema? A. Polyuria Hirsutism B. C. Tachvcardia D *Cold skin E. Loss of weight 150. What symptom is NOT typical for mixedema? Mental retardation A. *Hirsutism В. C. Bradycardia Cold skin D. E. Obesity 151. What complication can occur after treatment with glucocorticoids? Diabetes insipidus A. B. Conn's syndrome C. *Cushing syndrome D. Graves' disease Addison's disease E. 152. What symptom is NOT typical for Grave's disease? Nervousness A. Moist skin В. C. *Bradycardia Tremor D. E. Exophthalmia 153. What is the typical symptom of hypoparathyroidism? A. Dry skin Mental retardation В. Obesity C. D. *Seizures E. Exophthalmia 154. What is the typical symptom of hyperparathyroidism? A. Mental retardation *Osteoporosis В. Obesity C. Seizures D. Exophthalmia E. 155. What can be the reason of secondary (hypogonadotropic) hypogonadism? A. *Tumor of hypophysis Turner syndrome В. C. Noonan syndrome Orchitis D. Klinefelter's syndrome E. What can be the reason of primary (hypergonadotropic) hypogonadism? 156. Tumor of hypophysis A. В. *Turner's syndrome C. Hypopituitarism Laurence-Moon-Biedl syndrome D. Hypothyroidism 157. The 2-years old boy has positive Trousseau and Hyostek symptoms, sometimes seizures, poor hair and nails growth. What is possible diagnosis? A. Addison's disease *Hypoparathyroidism В. C. Diabetes mellitus

D. Grave's disease E. Cushing syndrome 158. What symptom is NOT typical for Addison's disease? Bradycardia A. Hyperpigmentation В. C. Hypotonia *Mental retardation D. E. Vomiting 159. All of the following are features of congenital hypothyroidism, EXCEPT: Lethargy A. Prolonged jaundice В. *Persistent diarrhea C. Hoarse cry D. E. Feeding difficulties 160. All of the following are features of Addison's disease, EXCEPT: A. Weakness B. Anorexia C. Hypoglycemia D. *Hypertension E. Hyperpigmentation of the skin 161. What types of diabetes mellitus glycemic control do you know? *Ideal, optimal, suboptimal, high risk for the life A. Normal, subnormal, poor, high risk for the life В. Excellent, problematic, suboptimal, high risk for the life C. Very good, good, bad, terrible D. Satisfactory, unsatisfactory E. What is NOT included in the clinical diagnose of diabetes mellitus type 1? 162. A. Severity Glycemic control В. Type of diabetes mellitus C. D. *Stage **Complications** E. 163. What is the most frequent endocrine pathology in children? Diabetes mellitus A. Addison's disease В. C. *Goiter Grave's disease D. **Dwarfism** 164. What is term which describes frequent urinations? *Pollakiuria A. Nicturia В. C. Polyuria Oliguria D. E. Hypoisostenuria 165. What is typical for diabetes insipidus? A. Glucosuria Proteinuria В. Oliguria C. D. *Hypoisostenuria Ketonuria E. 166. What can be the reason of diabetes mellitus? A. Excessive intake of sweets В. Stress C. Heredity

D. **Pancreatitis** *All is correct E. What can be the reason of diabetes insipidus? 167. Excessive intake of sweets A. *Tumor of hypophysis B. Tumor of adrenal gland C. D. **Pancreatitis** E. All is correct 168. What is the most informative laboratory index about diabetes mellitus control? Glucose in blood A. B. Glucose in urine Cholesterol in blood C. *Glucosylated hemoglobin D. E. Protein in urine 169. What food should be limited for the first time in patients with diabetes mellitus? A. Meat B. Seafood C. Milk Vegetables D. E. *Fruits 170. What is dose of glucose for glucose tolerance test (GTT)? 0,75 grams/kg A. 1 gram/kg В. *1,75 grams/kg C. 2 grams/kg D. 2,5 grams/kg E. What minimal 2-hours glucose level in blood indicates diabetes mellitus according 171. glucose tolerance test (GTT)? More than 8.5 mmol/L A. B. More than 9,0 mmol/L C. *More than 11,1 mmol/L More than 14.0 mmol/L D. More than 16,1 mmol/L 172. What minimal fasting plasma glucose level in blood indicates diabetes mellitus according glucose olerance test (GTT)? More than 5,5 mmol/L Α. *More than 7,0 mmol/L B. C. More than 7,7 mmol/L D. More than 8,0 mmol/L More than 11,0 mmol/L 173. What is not typical for diabetes mellitus? Pollakiuria A. Nicturia В. C. Polyuria *Oliguria D. Glucosuria 174. What is term which describes increased amount of urine? Pollakiuria A. В. Nicturia *Polyuria C. Oliguria D. E. Anuria What symptom is NOT typical for diabetes mellitus type 2? 175. Polyuria A.

B. Weakness C. Polydipsia Dry skin D. *Loss of weight E. 176. What symptom is not typical for diabetes mellitus type 1? Polyuria A. B. *Hirsutism C. Polydipsia D. Dry skin Loss of weight 177. What is the best laboratory method to prove diabetes mellitus diagnosis if blood glucose level is controversial? Estimation of insulin level in plasma Α. В. Estimation of glucose level in urine C. Insulin tolerance test D. *Glucose tolerance test (GTT) E. Estimation of glucose level in blood several times 178. What is screening laboratory method of diabetes mellitus diagnostic? Estimation of insulin level in plasma A. B. Estimation of glucose level in urine C. Insulin tolerance test Glucose tolerance test (GTT) D. *Estimation of glucose level in blood 179. What are the laboratory signs of diabetic ketoacidosis? Hyperglycaemia, glucosuria, hyperbilirubinemia A. Hyperglycaemia, glucosuria, proteinuria В. C. *Hypoglycaemia, glucosuria, ketonuria Acidosis, normoglycaemia, ketonuria D. Hyperglycaemia, glucosuria, ketonuria E. 180. The antagonist of insulin is: A. **Thyroxin** B. Cortisol C. *Glucagon Prolactin D. E. Growth hormone What is the place of insulin synthesis in pancreas? 181. Follicular cells A. Lutein cells В. C. Interstitial cells of Leydig D. *The islets of Langerhans Medullar substance E. 182. What should be an initial intravenous bolus dose of regular insulin in diabetic coma? 0.01 U/kg body weight A. B. *0.1 U/kg body weight 1 U/kg body weight C. D. 1, 5 U/kg body weight Insulin should not be injected intravenously 183. What should be dose of regular insulin for continuous intravenous infusion in diabetic coma? A. 0.01-0,02 U/kg/hour *0.1-0,2 U/kg/hour B. C. 0.1-0,2 U/kg/day1-2 U/kg/hour D.

E.

1-2 U/kg/day

- 184. What is the criterion of blood glucose level in diabetic coma to start subcutaneous injections?
 - A. Less than 7 mmol/L
 - B. Less than 10 mmol/L
 - C. *Less than 14 mmol/L
 - D. Less than 18 mmol/L
 - E. Less than 20 mmol/L
- 185. What should NOT be included in the clinical diagnose of DM in children?
 - A. Severity
 - B. Type
 - C. Level of glycemic control
 - D. *Symptoms
 - E. Complications
- 186. What should be included in the clinical diagnose of DM in children?
 - A. Stage of disease
 - B. Etiologic factor
 - C. *Severity
 - D. Symptoms
 - E. Insulin dose
- 187. To estimate severity of the DM doctor should be informed about:
 - A. Presence of comas on anamnesis
 - B. Presence of acute complications
 - C. Current patient's treatment
 - D. Presence of chronic complications
 - E. *All is correct
- 188. To estimate the severity of the DM doctor doesn't need to be informed about:
 - A. Presence of chronic complications
 - B. Presence of acute complications
 - C. *Age of patient
 - D. Presence of ketoacidosis and comas in anamnesis
 - E. Current patient's treatment
- 189. What maximal fasting glycemia in diabetic patient is appropriate for the ideal glycemic control?
 - A. 2,2-5,5 mmol/L
 - B. *3,6-6,1 mmol/L
 - C. 4,0 7,0 mmol/L
 - D. 8.0 9.0 mmol/L
 - E. More than 9.0 mmol/L
- 190. What maximal fasting glycemia in diabetic patient is appropriate for the optimal glycemic control?
 - A. 2,2-5,5 mmol/L
 - B. 3.6 6.1 mmol/L
 - C. *4,0 7,0 mmol/L
 - D. 8.0 9.0 mmol/L
 - E. More than 9,0 mmol/L
- 191. What maximal fasting glycemia in diabetic patient is appropriate for the suboptimal glycemic control?
 - A. 2.2 5.5 mmol/L
 - B. 3.6 6.1 mmol/L
 - C. 4,0 7,0 mmol/L
 - D. *8.0 9.0 mmol/L
 - E. More than 9,0 mmol/L
- 192. What fasting glycemia in diabetic patient is appropriate for the high risk for the life glycemic control?

- A. 2.2 5.5 mmol/L
- B. 3.6 6.1 mmol/L
- C. 4,0 7,0 mmol/L
- D. 8.0 9.0 mmol/L
- E. *More than 9.0 mmol/L
- 193. What maximal after food glycemia in diabetic patient is appropriate for the ideal glycemic control?
 - A. 3.6 6.1 mmol/L
 - B. *4,4-7,0 mmol/L
 - C. 5.0 11.0 mmol/L
 - D. 11.0 14.0 mmol/L
 - E. More than 14,0 mmol/L
- 194. What maximal after food glycemia in diabetic patient is appropriate for the optimal glycemic control?
 - A. 3.6 6.1 mmol/L
 - B. 4,4-7,0 mmol/L
 - C. *5,0 11,0 mmol/L
 - D. 11.0 14.0 mmol/L
 - E. More than 14.0 mmol/L
- 195. What maximal after food glycemia in diabetic patient is appropriate for the suboptimal glycemic ontrol?
 - A. 3.6 6.1 mmol/L
 - B. 4.4 7.0 mmol/L
 - C. 5,0 11,0 mmol/L
 - D. *11,0 14,0 mmol/L
 - E. More than 14,0 mmol/L
- 196. What after food glycemia in diabetic patient is appropriate for the high risk for the life glycemic ontrol?
 - A. 3,6-6,1 mmol/L
 - B. 4,4-7,0 mmol/L
 - C. 5,0 11,0 mmol/L
 - D. 11.0 14.0 mmol/L
 - E. *More than 14,0 mmol/L
- 197. What maximal glycated hemoglobin (Hb Alc) level is appropriate for the ideal glycemic control in diabetic patient?
 - A. Less then 4, 0 %
 - B. Less than 5.0 %
 - C. *Less than 6.0 %
 - D. Less than 7,6 %
 - E. Less than 9,0 %
- 198. What maximal glycated hemoglobin (Hb Alc) level is appropriate for the optimal glycemic control in diabetic patient?
 - A. Less then 4, 0 %
 - B. Less than 5.0 %
 - C. Less than 6,0 %
 - D. *Less than 7,6 %
 - E. Less than 9.0 %
- 199. What maximal glycated hemoglobin (Hb Alc) level is appropriate for the suboptimal glycemic control in diabetic patient?
 - A. Less then 4, 0 %
 - B. Less than 5,0 %
 - C. Less than 6,0 %
 - D. Less than 7,6 %
 - E. *Less than 9,0 %

200. What symptom is NOT typical for the Nobekur's syndrome? Growth retardation A. B. *Obesity Diabetic hepatosis C. Sexual development retardation D. All symptoms are typical for this syndrome \mathbf{E} 201. Which lymph nodes enlargement is usually NOT caused by hematological disease? Anterior cervical A. В. Posterior cervical C. * Preauricular D. Submandibular E. Supraclavicular 202. What concomintant problem is NOT typical for children with Down's syndrome? Hodgkin's disease A. Non-Hodgkin's lymphoma В. Myeloid leukemia C. Neuroblastoma D. * Ependymoma 203. In plan of examination of patient with non-Hodgkin's lymphoma should be included all EXCEPT: A. * Bronchoscopy В. Bone biopsy C. **MRI** CT-scan D. E. **CBC** 204. For acute lymphocytic leukemia is NOT typical: Skin haemorrhages A. B. Fever C. Marked elevation in WBCs * Pain in epigastric region D. E. Long bones pain 205. Choose the wrong statement about acute myelocytic leukemia: Bone marrow examination is essential diagnosis A. B. More common in adult C. It is worse prognosis than chronic myeloid leukemia Persons with Down's syndrome have higher risk of AML development D. E. *All is correct 206. Philadelphia chromosome is observed in more than 70 % patiens with: * Chronic myeloid leukemia A. Acute lymphoid leukemia B. Hodgkin's lymphoma C. D. Acute myeloid leukaemia Chronic lymphoid leukaemia E. 207. Philadelphia chromosome is usually NOT observed in patients with: Chronic myeloid leukemia A. В. Acute lymphoid leukemia * Hodgkin's lymphoma C. Acute myeloid leukaemia D. Chronic lymphoid leukaemia E. 208. The treatment of leukaemia should be started with: Maintenance of remission A. В. Consolidation of remission

* Induction of remission

C.

D. Subclinical CNS leukemia prophylaxis Prophylaxis of relapse E. 209. On the second year of leukaemia treatment should be started stage of: A. Maintenance of remission Subclinical CNS leukemia prophylaxis В. C. Induction of remission * Consolidation of remission D. E. Prophylaxis of relapse 210. On the third year of leukaemia treatment should be started stage of: * Maintenance of remission A. B. Consolidation of remission C. Induction of remission Subclinical CNS leukemia prophylaxis D. E. Prophylaxis of relapse 211. Choose normal count of reticulocytes in peripheral blood in adults: A. * Not more than 1 % B. Not more than 5 % C. Not more than 25 % Not more than 35 % D. E. Not more than 50 % 212. We diagnose increased level of lymphoblasts in bone marrow if their content is: more than 2 % A. more than 3 % В. * more than 5 % C. more than 20 % D. more than 50 % E. 213. Diagnostic criterion of leukemia in bone marrow is: Any number of lymphoblasts (they should be absent in healthy) A. B. More than 5 % of lymphoblasts More than 10 % of lymphoblasts C. * More than 25 % of lymphoblasts D. More than 50 % of lymphoblasts E. 214. Choose the examination which can finally prove leukemia: Lymph node biopsy A. B. CT-scan C. Complete blood count * Bone marrow puncture D. Lumbar puncture E. 215. All the following are poor prognostic signs in leukemia EXCEPT of: High WBC count A. Presence of chromosomes translocations В. C. Blasts with T-cell phenotype. Age less than 1 year old D. * All of above means poor prognosis E. 216. All the following are good prognostic signs in leukemia EXCEPT of: Low WBC count A. Absence of L3 cells В. Platelet count greater 100 G/L C. * Presence of chromosomes translocations D. All of above means good prognosis E. 217. What pathology is usually characterized by atrophyc glossitis: Hodgkin's lymphoma A.

Chronic leukemia leukemia

* B12-deficiency anemia

B. C.

- D. Iron-deficiency anemia Allergic vasculitis E. 218. What index does demonstrate the effectiveness of the iron-deficiency anaemia treatment? The serum iron level A. * The serum ferritin level В C. The hemoglobin level D. The total iron-binding capacity Hemoglobin electrophoresis E. The haemoglobin level 160 g/L is typical for: 219. * Neonates A. В. Three months old infants C. **Teenagers** D. Young adult male Pregnant woman E. 220. What is NOT typical for aplastic anemia? A. Can be caused by drugs There is decreased platelet counts B. * Bone marrow may show increased number of megakaryocytes C. D. Bone marrow may show decreased red cell formation Can be elevation of serum iron E. 221. Small size of erythrocytes is NOT typical for: Iron deficiency anemia A. alfa thalassemia major В. C. beta thalassemia minor * G6PD deficiency D. E. anemia of chronic disease 222. Decreased color index is NOT typical for: Iron deficiency anemia A. B. alfa thalassemia major C. beta thalassemia minor * G6PD deficiency D. anemia of chronic disease 223. What is correct about the anemia of chronic disease: Blasts are elevated in bone marrow A. B. Serum iron level is decreased Serum iron-binding capacity is elevated C. * Marrow iron stores are increased D. E. Iron therapy is required to raise hemoglobin level 224. One of etiological factors of hemolytic-uremic syndrome is: Staphylococcus aureus A. * E. coli
 - B.
 - Streptococcus viridans C.
 - D. Candida
 - **Proteus** E.
- 225. What problem is NOT associated with an intracorpuscular defect of erythrocytes:
 - Hereditary sherocytosis A.
 - Sickle cell anemia В.
 - C. * Autoimmune hemolytic anemia
 - G6PD deficiency D.
 - Hereditary elliptocytosis E.
- What is NOT typical for the Fanconi's anemia? 226.
 - * Hematologic abnormalities in infancy A.
 - B. Pancytopenia

C. Skeletal abnormalities D. Chromosome fragility Renal abnormalities E. 227. We can diagnose anemia in children between 6 month to 5 years old in case if: * Haemoglobin below 11 g/L A. Haemoglobin below 12 g/L B. C. Haemoglobin below 13 g/L D. Haemoglobin below 14 g/L E. Haemoglobin below 15 g/L 228. We can diagnose anemia in children older 5 years old in case if: A. * Haemoglobin below 12 g/L В. Haemoglobin below 13 g/L Haemoglobin below 14 g/L C. D. Haemoglobin below 15 g/L Haemoglobin below 16 g/L E. 229. What disease is NOT characterized by hypochromia and microcytosis? A. Pyridoxine responsive anemia * Sickle cell disease В. C. Dyserythropoietic anemia D. Lead poisoning Beta thalassemia major 230. What disease is characterized by hypochromia and microcytosis? Iron deficiency A. Beta thalassemia major В. C. Pyridoxine responsive anemia Lead poisoning D. * All is correct E. 231. What disease is characterized by normochromic, normocytic anemia: Iron deficiency A. Beta thalassemia major B. Hemolytic disesase of newborns C. Lead poisoning D. * Fanconi's anemia What is the best method to prove thalassemia diagnosis? 232. Serum iron and iron binding capacity A. В. Liver biopsy * Hemoglobin electrophoresis C. Coomb's test D. E. Coagulogram 233. Presence of the increased RBCs production before treatment is typical for: B12 deficient anemia A. * Hereditary Spherocytosis B. C. Aplastic anemia D. Anemia of chronic disease Megaloblastic anemia E. 234. Sickle cell anemia is not characterized by: Reticulocytosis A. В. Jaundice C. * Hypochromia of erythrocytes Splenic sequestration D. Acute chest syndrome 235. What hemoglobin type do we need to find in blood diagnose beta thalassemia trait? Hb-S A. B. Hb-C

- C. * Hb-A2 D. Hb-A Hb-C2 E. 236. What is NOT typical for thalassemia major? Jaundice A. Target cells on peripheral smear В C. Microcytic hypochromic anemia D. * Hemorrhagic syndrome Growth failure E. 237. Choose the important link of hemostasis: Vascular integrity A. В. Qualitative and quantative characteristics of platelets Presence of coagulation factors in blood C. D. All is incorrect * All is correct E. 238. What is Schonlein-Henoch purpura? A. Hemolytic-uremic syndrome Von Willebrand disease B. C. * Anaphylactoid purpura D. Fanconi pancytopenia Allergic dermatitis 239. What is NOT another name of hemorrhagic vasculitis? * Hemolytic-uremic syndrome A. Schonlein-Henoch purpura В. C. Allergic angiitis Anaphylactoid purpura D. E. Henoch-Schonlein disease 240. The prolonged bleeding time is NOT typical for the: * Hemophilia B A. B. von Willebrand's disease Aspirin-induced thrombocytopathia C. D. Bernard-Soulier syndrome E. 241. What of the following is NOT typical for DIC? Thrombocytopenia A. B. Microangiopathic blood smear Hypofibrinogenemia C. Hemorrhagic syndrome D. * All of above typical for this disease E. 242. In case of acute onset of thrombocytopenia in children we have to think first of all about: von Willebrand disease A. Acute leukemia В. C. * Idiopathic (immune) thrombocytopenic purpura D. Aplastic anemia Thrombotic thrombocytopenic purpura Find the INCORRECT statement concerning ITP in children: 243. 60 to 80 % of children who present with acute ITP will have spontaneous A. resolution of their ITP ithin 6 mo Less than 1 % will develop intracranial hemorrhage В.
 - D. The presence of abnormal finding such as hepatosplenomegaly or remarkable lymphadenopathy uggests another diagnosis

C.

chronic ITP

About 10 to 20 % of children who present with acute ITP go on to develop

- E. * Level of platelets in the blood can be normal
- 244. Find the INCORRECT statement concerning ITP in children:
 - A. 60 to 80 % of children who present with acute ITP will have spontaneous resolution of their ITP ithin 6 mo
 - B. Intracranial hemorrhage is very rare complication of acute ITP
 - C. About 60 to 80 % of children who present with acute ITP go on to develop chronic ITP
 - D. All statements are wrong
 - E. * All statements are correct
- 245. The criterion of trombocytopenia in blood according to the level of platelets is:
 - A. Less than 250,000/mm3
 - B. Less than 180,000/mm3
 - C. * Less than 150,000/mm3
 - D. Less than 100,000/mm3
 - E. Less than 50,000/mm3
- 246. What is typical for the acute ITP?
 - A. Anemia and thrombocytopenia
 - B. * Isolated thrombocytopenia
 - C. Thrombocytopenia and leukocytosis
 - D. Positive Coomb's test
 - E. Presence of blasts in peripheral blood
- 247. What is typical for acute ITP in bone marrow:
 - A. * Normal granulocytic and erythrocytic series with increased number of megakaryocytes
 - B. Decreased granulocytic, erythrocytic and megakaryocytic series
 - C. Increased granulocytic, erythrocytic and megakaryocytic series
 - D. Decreased granulocytic and erythrocytic series with increased number of megakaryocytes
 - E. Increased granulocytic and erythrocytic series with decreased number of megakaryocytes
- 248. What will be abnormal in plasma if patient has decreased VII plasma coagulation factor?
 - A. Platelets count
 - B. Prothrombin time
 - C. * Clotting time
 - D. Amount of fibrinogen
 - E. Bleeding time
- 249. What will be abnormal in plasma if patient has decreased IX plasma coagulation factor?
 - A. * Partial thromboplastin time
 - B. Thrombin time
 - C. Clotting time
 - D. Amount of fibrinogen
 - E. Bleeding time
- 250. What kind of rush is typical for ITP?
 - A. Polymorphous
 - B. Polychromatic
 - C. Asymmetric
 - D. Petechiae and purpura
 - E. * All is correct
- 251. What kind of rush is NOT typical for ITP?
 - A. Polymorphous
 - B. Polychromatic
 - C. * Symmetric

- D. Petechial
- E. Purpuric
- 252. What statement is NOT correct about treatment of ITP in children?
 - A. It doesn't require treatment
 - B. * Children who have platelet counts > 30,000/mm3 and are asymptomatic or have only minor purpura do not require routine treatment
 - C. Children who have platelet counts < 10,000/mm3 and are asymptomatic or have only minor purpura do not require routine treatment
 - D. Treatment doesn't depend on the platelets level and is performed only in bleedings
 - E. Clotting time is increased in 30 % of patients
- 253. Choose the best combination of medicnes for ITP treatment:
 - A. * Intravenous immune globulin (IVIG) and prednisone
 - B. Antibiotics and non-steroid anti-inflammatory
 - C. Slow acting antirheumatoid drugs (SAARDS) and cytostatics
 - D. Antibiotics and cytostatics
 - E. Non-steroid anti-inflammatory drugs and antibiotics
- 254. What is usual dose of prednisolon for children?
 - A. 0.5-1 mg/ kg/day
 - B. * 1-2 mg/ kg/day
 - C. 5-10 mg/ kg/day
 - D. 10-15 mg/kg/weekly
 - E. more than 20 mg/ kg/day
- 255. What is NOT part of recommendations for children with acute ITP?
 - A. Restriction of physical activities
 - B. Avoidance of aspirin
 - C. Avoidance of intramuscular injections
 - D. * Daily massages
 - E. Hypoallergic diet
- 256. When is recommended to perform splenectomy in the forth stage of ITP?
 - A. Newborns
 - B. Infants
 - C. 1-2 years
 - D. 3-4 years
 - E. * After 6 years
- 257. What platelets level in ITP is dangerous for development of intracranial hemorrhages?
 - A. More 50,000/mm3
 - B. Below 50,000/mm3
 - C. More 20,000/mm3
 - D. * Below 20,000/mm3
 - E. Below 100,000/mm3
- 258. Typical triade of Wiskott-Aldrich syndrome is:
 - A. Thrombocytopenia, mental retardation and immunodeficiency
 - B. Thrombocytosis, mental retardation and immunodeficiency
 - C. * Thrombocytopenia, eczema and immunodeficiency
 - D. Thrombocytosis, eczema and immunodeficiency
 - E. Thrombocytopenia, eczema and seizures
- 259. Thrombocytopathia and thrombocytopenia are typical for:
 - A. Hemorrhagic vasculitis
 - B. Hemophilia
 - C. Idiopathic thrombocytopenic purpera
 - D. Aplastic anemia
 - E. * Bernard Soulier syndrome