Rickets

Simple complement

- 1. What factor influences on vitamin "D" absorption at the level of small intestine?
 - A. Normal absorption of lipids
 - B. Increased concentration of proteins in foods
 - C. Decreasing of electrolytes in the child's foods
 - D. Increased concentration of group "B" vitamins in the child's foods
 - E. Increased concentration of glucides in the child's food
- 2. What metabolit of vitamin "D" is the most active ?
 - A. Cholecalciferol
 - B. 7 dihydroxycholecalciferol
 - C. 25 oxyvitamin D 3
 - D. 24,25 dioxyvitamin D 3
 - E. 1,25 dioxyvitamin D 3.
- 3. The forming in kidneys of metabolit 1,25 (OH) 2 D is stimulated by the following factors, except:
 - A. Hypocalcemia
 - B. Hypercalcemia
 - C. Increased concentration of parathormone
 - D. Hypovitaminosis "D"
 - E. Hypophosphatemia
- 4. In what organ is forming the most active metabolit of vitamin " D "?
 - A. Skin
 - B. Intestine
 - C. Liver
 - D. Kidneys
 - E. Stomach

5. In what alimentary produce the concentration of vitamin "D" is highest?

- A. Mother's milk
- B. Cow's milk
- C. Egg yolk
- D. Milk formula " Malish "
- E. Milk formula "Bona "
- 6. The hiperplasia of osteoid tissue forms the following symptoms, except:
 - A. Harrison groove
 - B. Frontal and parietal skull prominences (bossing)
 - C. Rickets rosary
 - D. Rickets bracelets (thickening of the wrists)
 - E. " Pearl necklace "
- 7. What is the daily physiologic necessity in vitamin "D" in children?
 - A. 40 IU
 - B. 50 IU
 - C. 200 IU
 - D. 300 IU
 - E. 400 IU
- 8. In what age appear more frequently the symptoms of vitamin "D" deficient rickets ?
 - A. 3-4 months
 - B. 3-4 weeks
 - C. 20 days -1 month
 - D. 3 weeks 3 months
 - E. 2-4 months

- 9. The vitamin " D " deficient rickets by III degree is characterising by the following symptoms, except :
 - A. Prononced bone deformations
 - B. Severe anemia
 - C. Severe affection of internal organs
 - D. Neuromotor and physical retardation
 - E. Normal biochemical indices in the blood
- 10. The signs of vitamin "D" deficient rickets onset are the follows, except :
 - A. Craniotabes
 - B. Increased sweating
 - C. Occipital alopecia
 - D. Troubled sleeping
 - E. Red, stable dermographism
- 11. The following deformations of thorax can be observed in vitamin "D" deficient rickets, except :
 - A. Anterioposterior plate chest
 - B. Bottomed sternum ("shoemaker sternum")
 - C. Pigeon chest
 - D. Harrison groove
 - E. Bulging of thorax in the region of heart
- 12. The signs of osteomalacia in deficient rickets are the follows, except:
 - A. Craniotabes
 - B. Increased flexibility of anterior fontanelle margins
 - C. Harrison groove
 - D. Flattened occipital region
 - E. Occipital alopecia
- 13. The differential diagnosis of rickets is performing with the following diseases, except:
 - A. Phosphaturic renal diabetes
 - B. Tubular renal acidosis, type I
 - C. Acute pneumonia
 - D. De Toni Debre Fanconi syndrome
 - E. Vitamin "D" dependent rickets
- 14. What factor does not influence on deficient rickets appearance in premature babies ?
 - A. The absence of exposition at sun light long time after birth
 - B. Defected absorption of liposoluble vitamins
 - C. Insufficient development of respiratory sistem
 - D. More intensive growing of premature babies
 - E. Insufficient antenatal storage of calcium and phosphorus
- 15. The pathogenetic mechanisms of rickets are the follows, except:
 - A. Decreased intestinal absorption of calcium
 - B. Decreased reabsorption of phosphorus at the level of tubular system
 - C. Increased secretion of parathormone
 - D. Decreased reabsorption of glucose at the level of tubular system
 - E. Deficit of bone matrix ossification

Multiple complement :

- 1. The deficient rickets is characterized by the following periods :
 - A. Period of onset
 - B. Period of state
 - C. Period of reconvalescence
 - D. Period of postrachitic sequelae
 - E. Advanced period

- 2. What are the vitamin "D" preparations?
 - A. Calciferol
 - B. Oxydevit
 - C. Calcidiol
 - D. Calcitriol
 - E. Bio-splat

3. The classification of deficient rickets, proposed by S.O.Dulitzkii, includes :

- A. Period of disease
- B. Degree of disease severity
- C. Evolution of disease
- D. Etiologic factor
- E. Character of cardiovascular system affection
- 4. The period of deficient rickets state is during with the folloving skull affection signs:
 - A. Craniotabes
 - B. Absence of occipital part flattening
 - C. The head in the form of box
 - D. Olympic forehead
 - E. Frontal and parietal proeminences (bossing)
- 5. The functions of metabolit 1,25 (OH) 2D3 are :
 - A. Not influences the intestinal absorption of calcium
 - B. Influences the bones mineralization
 - C. Influences the synthesis of osteocalcine
 - D. Increases the reabsorption of calcium and phosphorus in renal tubules
 - E. Influences the muscular contractibility
- 6. On what organs influences the metabolit 1,25 dihydrocholecalciferol ?
 - A. Small intestine
 - B. Kidneys
 - C. Lungs
 - D. Muscular system
 - E. Paratyroid glands
- 7. The synthesis of 25 (OH) D 3 in liver in activated by :
 - A. Hypocalcemia
 - B. Hypovitaminosis "D"
 - C. Hyperparathyroidism
 - D. Hypercalcemia
 - E. Hypovitaminosis "A"
- 8. What is the role of parathormone in the pathogenesis of deficient rickets?
 - A. Mobilizes the calcium from bones in conditions of hypercalcemia
 - B. Stimulates the synthesis of 1,25 (OH)2 D3
 - C. Stimulates the reabsorption of calcium and magnesium in renal tubules
 - D. Increases the excretion of phosphates with urine
 - E. Increases the excretion of bicarbonates with urine
- 9. The muscular hypotonia observed in deficient rickets occurs with the following signs :
 - A. The thorax in the form of bell
 - B. The "frog" abdomen
 - C. The breaking up of right abdomenal muscle
 - D. Dorsolombar kyphosis
 - E. Harrison groove

10. The nonspecific antenatal prophylaxis of rickets includes :

- A. Unreasonable using of maternity leave
- B. Respecting of well thought -out regime
- C. Walking on fresh air
- D. Alimentation of pregnant woman conformable to physiologic necessities
- E. Evidence of pregnant women with increased risk of precocious rickets appearance in babies after birth
- 11. The evolution of deficient rickets can be :
 - A. Acute
 - B. Subacute
 - C. Recurrent
 - D. Latent
 - E. Progressive
- 12. What processes have place at the level of long bones during the period of organism's growing ?
 - A. The process of ossification
 - B. The accumulation of vitamin D in bone tissue
 - C. The process of bone reabsorption, connected specifically by skeletal calcium mobilization for constant maintaining of calcemia
 - D. The process of bone modelling
 - E. Hyperplasia of osteoid tissue
- 13. In what organs takes place the metabolization of vitamin "D"?
 - A. Skin
 - B. Kidneys
 - C. Liver
 - D. Lungs
 - E. Intestine
- 14. What dental disorders are observed in the case of acquired deficitar rickets?
 - A. Delayed eruption of temporary teeth
 - B. Hypoplasia of enamel
 - C. Predisposing to caries of permanent teeth
 - D. Precocious eruption of permanent teeth
 - E. Precocious eruption of temporary teeth
- 15. The following data are used for deficient rickets diagnosis :
 - A. Clinical examination
 - B. Biochemical changes in blood
 - C. Radiologic data with characteristic changes
 - D. Indices of physical development
 - E. Functional state of cardiovascular system
- 16. What are the physiologic effects of 1,25 (OH)2 D3 at the level of muscles?
 - A. Maintaining of normal muscular tonus
 - B. Ensuring of normal contractibility force
 - C. Influences the increasing of ATP quantity in muscles
 - D. Increases the muscular proteins synthesis
 - E. Decreases the muscular proteins synthesis
- 17. What factors decrease the efficacity of solar rays ?
 - A. Nordic Latitude
 - B. Usual glass
 - C. Increased concentration of dust in air
 - D. The spring season
 - E. Skin pigmentation

18. What are the physiologic effects of 1,25 (OH)2 D3 at the level of bones?

- A. Increases the bone mineralization
- B. The role of control on bone calcium and phosphorus mibilization process, realized by parathormone
- C. Influences the skeleton growing
- D. Stops the process of ossification
- E. Stimulates the osteoid tissue hyperplasia
- 19. The following degrees of severity are distinguished in the deficient rickets :
 - A. Degree 0
 - B. Degree I
 - C. Degree II
 - D. Degree III
 - E. Degree IV
- 20. What changes on the level of long bones are characteristic for deficient rickets ?
 - A. Rickets "bracelets"
 - B. Coxa vara
 - C. Genu varum
 - D. Deformations in the form of ",0" or ",X"
 - E. Harrison groove
- 21. The positive diagnosis of deficient rickets is based on :
 - A. Clinical picture
 - B. Normal or decreased serum calcium
 - C. Hyperphosphatemia
 - D. Increased level of parathormone in blood
 - E. Decreased level of vitamin D metabolits (25 (OH)D3; 1,25 (OH)2 D3)
- 22. What factors influence the lesions of bones in deficient rickets ?
 - A. Decreased resistance of bone to mechanical loading
 - B. Insufficient mineralization of bone organic matrix
 - C. Hyperplasia of cartilaginous cells
 - D. Deformation of bones
 - E. Increased concentration of calcium in bones
- 23. The acute evolution of deficient rickets is characterized by :
 - A. More frequently appearance in premature babies
 - B. It has place in winter-spring period
 - C. Marked general manifestations
 - D. Predomination of osteomalacia in the bone affection
 - E. It is frequently observed in adults
- 24. The subacute evolution of deficient rickets is characterized by:
 - A. Moderate expression of rickets general signs
 - B. Predomination of osteoid tissue hyperplasia symptoms
 - C. Moderate prononced signs of osteomalacia
 - D. Alkaline phosphatase is not increased
 - E. Frontal and parietal bosses are bulged
- 25. What are the peculiarities of bone system affection in rickets?
 - A. The affections of skull bones predomine in the first 3 months of baby 's life
 - B. The affection of thorax is more prononced from 2 until 6 months
 - C. The long bones are affected after the age of 6 months
 - D. The deformation of legs has place after the age of 3 months
 - E. The legs in the form of ,,0'' or ,,X'' are more prononced in the age of 1 year.

Rickets

Correct answers :

Simple complement

- 1. A
- 2. E
- 3. B
- 4. D
- 5. C
- 6. A
- 7. E
- 8. B
 9. E
- 9. E 10. A
- 10. A
- 11. L 12. E
- 12. L 13. C
- 13. C
- 15. D

Multiple complement

- 1. ABCD
- 2. ABCD
- 3. ABC
- 4. ACDE
- 5. BCDE
- 6. ABDE
- 7. ABC
- 8. BCDE
- 9. ABCD
- 10. BCDE
- 11. ABC
- 12. ACD
- 13. ABC
- 14. ABC
- 15. ABC
- 16. ABCD
- 10. ABCD 17. ABCE
- 17. ABCE 18. ABCD
- 18. ADCL 19. BCD
- 19. BCD 20. ABCD
- 20. ABCD 21. ABDE
- 21. ABDL 22. ABCD
- 23. ABCD
- 24. ABCE ;
- 25 . ABCE