**Examination Questions “Pathophysiology” for III-rd year students of**

**Dentistry faculty 2023 – 2024**

**Totalization II**

1. Pathophysiology of carbohydrate metabolism. Etiology. Pathogenesis. Manifestations and compensatory mechanisms in hyper- and hypoglycemia.
2. Pathophysiology of lipid metabolism. Etiology. Pathogenesis. Manifestations in the oral cavity.
3. Pathophysiology of protein metabolism. Etiology. Pathogenesis. Manifestations in the oral cavity.
4. Pathophysiology of electrolyte imbalance (Na+K+). Etiology. Pathogenesis. Manifestations in the body.
5. Pathophysiology of electrolyte (Ca2+, phosphate) imbalance. Etiology. Pathogenesis. The importance of these in pathological process in oral cavity.
6. Pathophysiology of Fluor imbalance. The importance of this in pathological process in the oral cavity. Fluorosis.
7. The nervous sensibility disorders: hypo- and hyperesthesia, anesthesia and paresthesia. Pathogenesis. Manifestations.
8. Nociceptive and antinociceptive systems. Peculiarities of nociception in oral cavity.
9. Pain. Notion. Classification. The biological importance.
10. The trigeminal and temporo-mandibular pain. Etiology. Pathogenesis.
11. The hypo- and hypersecretion of Growth hormone. Etiology. Pathogenesis. Manifestations on oral cavity.
12. The hypo- and hypersecretion of glucocorticoids. Etiology. Pathogenesis. Manifestations on oral cavity.
13. The hypo- and hypersecretion of parathyroid hormone. Etiology. Pathogenesis. Manifestations on oral cavity.
14. The hypo- and hypersecretion of thyroid hormone. Etiology. Pathogenesis. Manifestations on oral cavity.
15. Hyposecretion of insulin. Etiology. Pathogenesis. The manifestations of diabetes mellitus in oral cavity.
16. Hypo- and hypervolemia. Types. Etiology. Pathogenesis.
17. Erythrocytosis. Classification. Etiology. Pathogenesis. Hemogram. Manifestations.
18. The acute and chronic post-bleeding anemia. Pathogenesis. Hemogramm. The manifestations in oral cavity.
19. B12-vitamin and folic deficiency anemia. Etiology. Pathogenesis. Hemogramm. The manifestations in oral cavity.
20. Iron-deficiency anemia. Etiology. Pathogenesis. Hemogramm. The manifestations in oral cavity.
21. Hemolytic anemia. Type. Etiology. Pathogenesis. Hemogramm. Manifestations.
22. Leukocytosis. Etiology. Types. The biological importance.
23. Leucopenia. Notion. Agranulocytosis. Etiology. Pathogenesis. Changes in oral cavity.
24. The cardiovascular insufficiency. Etiology. Pathogenesis. Hemodynamic changes.
25. Emergent and delayed compensatory mechanisms involved in heart failure.
26. Pathophysiology of essential arterial hypertension. Etiology. Pathogenesis.
27. Pathophysiology of secondary arterial hypertension. Etiology. Pathogenesis.
28. Arrhythmic disorders due to disturbed cardiac automaticity (sinus tachycardia, bradycardia). Etiology. Pathogenesis.
29. The disturbances of respiratory center. Excitation, inhibition and paralysis of respirator center. Etiology, manifestations, consequences.
30. Obstructive airway disorders. The causes. Asphyxia. The consequences.
31. Disorders of mastication. Etiology. Pathogenesis. Dental pathological processes and the role in digestion disorders.
32. Disorders of swallowing. Dysphagia. Etiology. Pathogenesis. Manifestations.
33. Hypersalivation. Etiology. Pathogenesis. Manifestations. Peculiarities of digestion in the oral cavity.
34. Hyposalivation. Xerostomia. Etiology. Pathogenesis. The peculiarities of digestion in the oral cavity.
35. The pathological processes in periodontium: parodontosis. Pathogenesis.
36. Pathophysiology of gastric hypersecretion. Ulcerogenesis. Etiology. Pathogenesis. Correlation between the oral cavity and gastric hypersecretion.
37. Pathophysiology of gastric hyposecretion. Etiology. Pathogenesis. Correlation between the oral cavity and gastric hyposecretion.
38. Disturbances of the intestinal digestion and absorption. Etiology. Pathogenesis. Correlation between the oral cavity and disorders of gastrointestinal system.
39. Disorders of secretion and evacuation of the bile. Acholia. Cholemia. Cholestasis. Manifestation in oral cavity.
40. Pathophysiology of liver failure. Etiology. Pathogenesis. Metabolic (carbohydrate, lipid, protein) imbalance in liver failure.
41. Jaundice. Notion. Types. Etiology. Pathogenesis. Manifestations in oral cavity.
42. The disturbances of renal filtration and reabsorption. Causes. Pathogenesis. Manifestations.
43. Renal edema (nephrotic and nephritic syndromes). Etiology. Pathogenesis.
44. Pathophysiology of chronic kidney failure. Etiology. Pathogenesis. Manifestations in oral cavity.

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