

## Pathophysiology topics 2022/2023

### A

- A1. Hypertension (definition, etiology, pathomechanisms, classification, consequences/complications)
- A2. Atherosclerosis (pathophysiology, consequences/complications)
- A3. Pathophysiology of ischemic heart disease
- A4. Pathophysiology of arrhythmias
- A5. Acute and chronic heart failure (pathophysiology, consequences/complications)
- A6. Circulatory shock (types, pathomechanism, organ damages in shock)
- A7. Pulmonary edema and pulmonary embolism
- A8. Obstructive and restrictive pulmonary diseases
- A9. Acute renal failure
- A10. Chronic renal failure
- A11. Diseases of the stomach and the H. pylori infection
- A12. Diseases of the oesophagus and the GERD
- A13. Bowel diseases
- A14. Diseases of the pancreas
- A15. Liver diseases and bile disorders
- A16. Thyroid diseases
- A17. Diseases of the adrenal gland
- A18. Pituitary dysfunctions
- A19. Pathomechanism and symptoms of diabetes mellitus
- A20. Complications of diabetes mellitus. Metabolic syndrome (X)
- A21. The anomalies of energy homeostasis. Causes of obesity and starvation
- A22. Pathophysiology of pain. Pain relief methods

## B

- B1. Laboratory tests of the acid-base homeostasis (metabolic/respiratory acidosis and alkalosis)
- B2. Laboratory tests of the kidney and urine
- B3. Abnormalities and laboratory diagnostics of the salt-water homeostasis
- B4. Diagnostic tests of the gastrointestinal tract
- B5. Diagnostic tests of viral hepatitis
- B6. Laboratory diagnostics of the liver
- B7. Diagnostic tests of the thyroid
- B8. Diagnostic tests of the adrenal gland
- B9. Laboratory tests of pituitary gland
- B10. Laboratory diagnostics of diabetes mellitus
- B11. Diagnostics of autoimmune diseases (rheumatoid arthritis, SLE, inflammatory bowel diseases, Sjögren's-syndrome)
- B12. Neurological disorders (causes, symptoms, diagnostics)
- B13. Psychiatric disorders (causes, symptoms, diagnostics)
- B14. ECG and analysis basics
- B15. Abnormal ECG: excitation and conduction abnormalities
- B16. Abnormal ECG: ischemia on ECG