Examination Questions on the ECG

- 1. Electrocardiography. The main founders of the method. Physiological basis of the electrocardiogram. Genesis of the normal ECG.
- 2. The characteristic features of the ECG-leads (standard limb leads, augmented limb leads, unipolar chest leads). Eintchovens triangle from the point of the genesis of the standard leads.
- 3. The ECG-wave morphology. The main elements of the ECG in the norm. Duration and amplitude of the waves, characteristic features of PQ- and QT- intervals, measurement of heart rate.
- 4. The notion "electrical axis" and "α-angle". Definition, electrical axis positions, methods of electrical axis determination.
- 5. Approach to ECG analysis: consequence of the main steps, ECG-protocol filling in.
- 6. General ECG-signs of cardiac (atrial and ventricular) hypertrophy.
- 7. ECG-signs of the atrial hypertrophy (left atrial hypertrophy, right atrial hypertrophy).
- 8. ECG-signs of the left ventricular hypertrophy.
- 9. ECG-signs of the right ventricular hypertrophy.
- 10.General ECG-signs of the bundle branch block. ECG-signs of the right bundle branch block.
- 11.ECG-signs of the left bundle branch block and fascicular blocks in the left bundle system.
- 12.ECG-signs of the normal sinus rhythm. Sinus rhythm disturbances (sinus tachycardia, sinus bradycardia, sick sinus syndrome).
- 13. ECG-signs of the sinoatrial block (3 degrees of SA-block).
- 14. ECG-signs of the atrioventricular heart block (3 degrees of AV-block).
- 15.Pre-excitation syndromes (WPW- and LGL-syndromes). Mechanism of genesis, ECG-signs, clinical significance.
- 16. ECG-signs of supraventricular premature (ectopic) beats.
- 17.ECG-signs of ventricular premature (ectopic) beats.
- 18. ECG-signs of paroxysmal supraventricular tachycardia.
- 19.ECG-signs of paroxysmal ventricular tachycardia.
- 20. ECG-signs of atrial fibrillation and atrial flutter.
- 21.ECG-signs of ventricular fibrillation and ventricular flutter.
- 22.ECG-signs of ischemia, myocardial injury and necrosis. Q-wave and non-Q-wave myocardial infarction.
- 23. ECG-signs of the anterior myocardial infarction.
- 24. ECG-signs of the inferior myocardial infarction.
- 25. ECG-signs of the lateral myocardial infarction.