

Propedeutics of Internal diseases

Department of Propedeutics of Internal diseases
For students of 3rd course of Medical faculty

Topic 1: Subjective and objective methods of examination of patients with diseases of respiratory organs. Inquiry. Thorax survey.

CONTROL QUESTIONS

1. Basic complaints of patients with diseases of respiratory organs.
2. Cough: pathogenesis, characteristic, diagnostic value.
3. Sputum: characteristic, diagnostic value.
4. Hemoptysis (haemoptoe)
5. Pains in the thorax, characteristic, diagnostic value.
6. Dyspnea (breathlessness): pathogenesis, diagnostic value.
7. Changes of voice, impairment of respiration through the nose, pain in the throat: diagnostic value.
8. Features of carrying out of general survey of patients with respiratory organs diseases.
9. Thorax survey. Types.
10. Static survey of thorax: procedure, diagnostic value.
11. Dynamic survey of thorax: procedure, diagnostic value.
12. Definition of frequency, depth, type and rhythm of breathing.
13. Types of impairments of breath rhythm.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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3. Romankov, L.V. Theses of lectures on propedeutics of internal diseases / L.V. Romankov. – Гомель, УО «ГГМУ», 2012. – 156с.
4. Scheme of educational medical history in the clinic of propedeutics of internal diseases (GomSMU, 2010).

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Topic 2: Objective methods of examination of patients with diseases of respiratory organs – palpation and percussion.

CONTROL QUESTIONS

1. Palpation of thorax.
2. Determination of resistance and elasticity of thorax and vocal fremitus. Diagnostic value.
3. Determination of respiratory excursion of a thorax.
4. Rules and technique of the comparative percussion of lungs.
5. Rules of topographical percussion of lungs.
6. Technique of topographical percussion lungs: determination of the lower and top borders of lungs, width of Crenig's areas and mobility of the lower edge of lungs.
7. Projection of the lower edge of lungs to the thorax.
8. Diagnostic value of change of borders and mobility of the lower edge of lungs

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Propedeutics of Internal diseases

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Topic 3: Objective methods of examination of patients with diseases of respiratory organs – auscultation of lungs.

CONTROL QUESTIONS

1. Definition of auscultation. Types of auscultation.
2. Physical bases of auscultation.
3. Rules of auscultation of lungs.
4. Classification of respiratory murmurs.
5. The occurrence mechanism of vesicular respiration and its characteristic in norm.
6. Quantitative and qualitative changes of vesicular respiration, their diagnostic value.
7. Bronchial respiration. Definition, diagnostic value.
8. Pathological bronchial respiration. The occurrence reasons, types, diagnostic value.
9. What is the additional respiratory murmurs?
10. The reasons and the mechanism of occurrence of rhonchi.
11. The reasons and the mechanism of occurrence of crackles.
12. Crepitation. Definition, diagnostic value.
13. Noise of friction of pleura (pleural rub). Mechanism of its occurrence, distinctive features.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Propedeutics of Internal diseases

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For students of 3rd course of Medical faculty

Topic 4: The basic clinical syndromes at diseases of respiratory organs. Examination of patients with diseases of respiratory organs. Laboratory and instrumental methods of diagnostics.

CONTROL QUESTIONS

1. Concept about syndrome of impairment of bronchial passableness and its clinical signs
2. Lungs emphysema. Definition, forms.
3. Clinic and diagnostics of lungs emphysema
4. Syndrome of respiratory failure. Definition, classification. Clinic, diagnostics.
5. Methods of examination of functions of external breathing (spirometry, pneumotachometry, spirometry, peakflowmetry)
6. Syndrome of consolidation of pulmonary tissue: types (infiltration, edema, atelectasis), reasons, clinic, diagnostics.
7. Pleuritis definition. Types.
8. Clinic and diagnostics of exudative pleuritis
9. Pneumothorax: definition, types.
10. Pulmonary cavitary syndrome: the reasons, clinic, diagnostics (on example of abscess of lungs).
11. Atelectasis of lungs: types. Clinic and diagnostics of obturative and compressive atelectasis.

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TOPIC № 5 (Colloquium): Examination of patients with diseases of respiratory system.

1. Basic complaints of patients with diseases of the respiratory system.
2. Cough: characteristic, diagnostic value.
3. Branch of sputum: characteristic, diagnostic value. Hemoptysis: diagnostic value.
4. Pains in the thorax, characteristic, diagnostic value.
5. Breathlessness, asthma attacks: diagnostic value.
6. Features of carrying out of the general survey of the patient with respiratory diseases.
7. Thorax survey. Static survey of the thorax: technique, diagnostic value.
8. Dynamic survey of the thorax: technique, diagnostic value.
9. Determination of frequency, depth, type and a breath rhythm.
10. Types of impairment of the breath rhythm.
11. Palpation of the thorax.
12. Determination of resistance of the thorax and vocal fremitus. Diagnostic value.
13. Determination and physical bases of percussion as method of objective research of patients.
14. Rules, technics and types of percussion.
15. Rules and technique of the comparative percussion of lungs.
16. Types of percussion sound and their change.
17. Clinical topography of the thorax. Projection of the lower edge of lungs to the thorax.
18. Rules of topographical percussion of lungs.
19. Technique of topographical percussion lungs: determination of the lower and top borders of lungs, width of Crenig's areas and mobility of the lower edge of lungs.
20. Diagnostic value of change of borders and mobility of the lower edge of lungs.
21. Definition of auscultation. Types of auscultation. Physical bases of auscultation.
22. General rules of auscultation. Rules and techniques of lungs auscultation.
23. Classification of respiratory murmurs.
24. The occurrence mechanism of vesicular respiration and its characteristic in norm.
25. Quantitative and qualitative changes of vesicular respiration, diagnostic value.
26. What is the bronchial respiration? Where it is determined in norm?
27. Pathological bronchial respiration. The occurrence reasons, types, diagnostic value.

28. The mixed respiration: the occurrence reasons, diagnostic value.
29. Additional respiratory murmurs: rales, rhonchi, crepitation. Reasons, diagnostic value.
30. Noise of friction of pleura. Bronchophony.
31. Concept about syndrome of impairment of bronchial passableness and its clinical signs.
32. Lungs emphysema. Definition, forms. Clinic and diagnostics of lungs emphysema.
33. Syndrome of respiratory failure. Definition, classification.
34. Clinic of separate forms of respiratory failure. Diagnostics.
35. Syndrome of consolidation of the pulmonary tissue: etiology, clinic, diagnostics.
36. Pleuritis definition. Types. Clinic and diagnostics of exudative pleuritis.
37. Etiology of pneumothorax. Types. Clinic.
38. Pulmonary cavitary syndrome: reasons, clinic, diagnostics (on example of lungs abscess).
39. Atelectasis of lungs: types. Clinic and diagnostics of obturative and compression atelectasis.

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Topic 6: Subjective and objective methods of examination of patients with diseases of cardiovascular system (inquiry of patient, pulse palpation).

CONTROL QUESTIONS

1. The basic complaints of cardiological patients.
2. The pain characteristic at a stenocardia, myocardial infarction, myocarditis, pericarditis, cardioneurosis, aorta pathology.
3. Palpitation and heart faults. Diagnostic value.
4. Complaints of the patient at cardiac asthma and lungs edema.
5. Complaints of the patient arising at stagnation of blood in major circle of circulation.
6. Mechanism of occurrence of cardiac edemas.
7. Procedure of pulse palpation. Basic properties of pulse.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Propedeutics of Internal diseases

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Topic 7: Objective methods of examination of patients with diseases of cardiovascular system – local survey of heart area, palpation and percussion of heart.

CONTROL QUESTIONS

1. Apex beat, heart hump, heart beat. Diagnostic value.
2. At what states apex beat shift to the left, to the right, upwards is observed?
3. What is the symptom of "the cat's purring»? Diagnostic value.
4. Rules of carrying out of percussion of heart. Absolute and relative dullness of heart.
5. At what morbid conditions dilating of borders of heart to the right is observed? To the left? Upwards?
6. Types of configurations of heart.
7. Percussion of vascular fascicle (vascular bunch).

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Topic 8: Objective methods of examination of patients with diseases of cardiovascular system – auscultation of heart.

CONTROL QUESTIONS

1. Definition and classification of heart sounds (tones).
2. The mechanism of 1st tone formation.
3. The mechanism of 2nd tone formation.
4. The mechanism of formation 3rd and 4th tones
5. Places of projection of heart valves on the thorax and their points of auscultation.
6. Rules of auscultation of the heart
7. The characteristic of heart tones at auscultation of heart apex (mitral valve) and the basis of xiphoid process (tricuspid valve).
8. The characteristic of heart tones at auscultation of the basis of heart (valves of aorta and pulmonary artery).
9. Point of Botkin-Erb (V point of auscultation): localization, value.
10. Changes of heart tones on loudness (easing, strengthening) in points of auscultation. The mechanism of formation of these changes.
11. The mechanism of formation of opening snap of mitral valve, systolic click, pericardtone.
12. The characteristic of «Quail rhythm», diagnostic value.
13. The characteristic of «gallop rhythm», diagnostic value.
14. Reasons of easing and strengthening of both tones of heart.
15. Diseases at which easing of I tone at apex of the heart and apex of the heart is observed.
16. Diseases at which strengthening of I tone at apex of the heart and apex of the heart is observed.
17. Diseases at which easing of II tone over aorta and over the pulmonary artery is observed.
18. Diseases at which strengthening (accent) of II tone over aorta and over the pulmonary artery is observed.
19. Pathological conditions at which splitting or bifurcation of I tone, splitting or bifurcation of II tone are determined.

LITERATURE

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Topic 9: Objective methods of examination of patients with diseases of cardiovascular system – auscultation of heart (heart murmurs).

CONTROL QUESTIONS

1. Heart murmurs. Definition.
2. Rules of auscultation of the heart on revealing of murmurs.
3. Classification of cardiac murmurs.
4. Clinical variants of extracardiac murmurs.
5. The reasons for murmur of friction of the pericardium, pleuropericardial friction murmur, cardiopulmonary murmur. Differential diagnostics.
6. Basis characteristics of murmurs at mitral stenosis, mitral insufficiency.
7. Basis characteristics of murmurs at aortal stenosis, aortal insufficiency
8. Functional intracardiac murmurs. Reasons. Diagnostic value.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Topic 10: Clinical and electrocardiographic signs of hypertrophy of atriums and ventricles, ischemic heart disease.

CONTROL QUESTIONS

1. Signs of right atrial hypertrophy
2. Signs of left atrial hypertrophy
3. Signs of right ventricular hypertrophy
4. Signs of left ventricular hypertrophy
5. ECG signs of myocardial infarction

LITERATURE

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Topic 11: Electrocardiogram signs of heart arrhythmias (bradycardia, tachycardia, sinus arrhythmia, extrasystoles, atrial fibrillation and flutter, paroxysmal tachycardias).

CONTROL QUESTIONS

1. Definition of cardiac arrhythmias
2. Classification of cardiac arrhythmias
3. Extrasystoles. Types, diagnostics.
4. Paroxysmal tachycardia diagnostics.
5. Atrial fibrillation and atrial flutter diagnostics.

LITERATURE

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Topic 12: Electrocardiogram signs of heart arrhythmias (sinuatrial blocks, atrial blocks, atrioventricular blocks, bundle branch blockade).

CONTROL QUESTIONS

1. Classification of heart blocks.
2. Diagnostics of Sinoatrial blockade.
3. Diagnostics of Intra-atrial blockade.
4. Diagnostics of Atrioventricular blocks.
5. Diagnostics of His bundle block.

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**Topic 13: The basic clinical syndromes at diseases of cardiovascular system.
Laboratory and instrumental methods of examination (part 1).**

CONTROL QUESTIONS

1. Basic conception about metabolic syndrome.
2. Syndromes of hypertrophy and left ventricle dilatation (cardiomegaly syndrome).
3. Arrhythmia syndrome
4. Heart diseases. Definition. Classification.
5. Stenosis of the left atrioventricular aperture
6. Mitral insufficiency
7. Insufficiency of the aorta valve
8. Stenosis of the aorta ostium

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**Topic 14: The basic clinical syndromes at diseases of cardiovascular system.
Laboratory and instrumental methods of examination (part 2).**

CONTROL QUESTIONS

1. Syndrome of arterial hypertension.
2. Syndrome of circulatory insufficiency. Heart failure. Classification, clinic.
3. Acute heart failure. Classification, clinic.
4. Chronic heart failure (CHF). Classification, clinic.
5. Syndromes of pulmonary hypertension, pulmonary heart
6. Syndrome of vascular insufficiency

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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TOPIC № 15 (Colloquium): Examination of patients with diseases of cardiovascular system.

1. The basic complaints of cardiological patients.
2. The pain characteristic at a stenocardia, a myocardium heart attack, myocarditis, pericarditis, cardioneurosis, aorta pathology.
3. Palpitation and heart faults. Diagnostic value.
4. Complaints of the patient at cardiac asthma and lungs edema. Clinical variants of dyspnea.
5. Complaints of the patient arising at stagnation of blood in major circle of circulation. Symptom of alternating lameness. Mechanism of occurrence of cardiac edemas.
6. Technique of definition of pulse. The basic characteristics of pulse in norm and at pathology.
7. Heart hump, apex beat, heart beat. Diagnostic value. At what conditions displacement of the apex beat to the left, to the right, upwards is observed?
8. What is the symptom of "the cat's purring»? Diagnostic value.
9. Rules of hearts percussion. Delimitation of absolute and relative dullness of heart. Borders of absolute and relative dullness of heart at the healthy person.
10. At what pathological conditions expansion of borders of heart to the right is, to the left, upwards is observed? Types of configurations of heart. Definition of vascular bunch.
11. Intraheart hemodynamic, phase structure of the heart cycle.
12. Mechanism of formation and characteristic of I, II tones (S1, S2).
13. Mechanism of formation and characteristic III and IV tones of heart.
14. Rules and procedure of heart auscultation.
15. Changes of tones on loudness (easing, strengthening). The mechanism of formation of these changes.
16. Mechanism of formation of systolic click, opening snap of mitral valve, pericardtone.
17. The «Quail rhythm», diagnostic value of its revealing. The «gallop rhythm», diagnostic value of its revealing.
18. Technique of measurement of blood pressure. The reasons of increase and decrease of blood pressure.
19. Heart murmurs. Definition. Rules of auscultation of the heart on revealing of murmurs.
20. Classification of cardiac murmurs. Clinical variants of extracardiac murmurs.
21. The reasons for murmur of friction of the pericardium, pleuropericardial friction murmur, cardiopulmonary murmur. Differential diagnostics.
22. Basis characteristics of murmurs at mitral stenosis, mitral insufficiency
23. Basis characteristics of murmurs at aortal stenosis, aortal insufficiency.

24. Functional intracardiac murmurs. Reasons. Diagnostic value
25. Technique of auscultation of large vessels (carotid, renal, femoral arteries, aorta).
26. . Characteristic of the basic electrophysiological properties of a cardiac muscle. Conducting system of heart.
27. Electrocardiographic leads. 6. Waves, intervals and complexes of electrocardiogram and their characteristic.
28. Definition of electric axis of heart. Variants of position of electric axis.
29. Scheme of analysis of the electrocardiogram.
30. Electrocardiogram - signs of hypertrophy of atriums and ventricles.
31. 10. ECG signs of stenocardia (ischemia), myocardium infarction.
- Topographical diagnostics of myocardial infarction.
32. Electrocardiogram signs of sinus tachycardia, bradycardia, arrhythmia and its diagnostic value.
33. Electrocardiogram - signs of atrioventricular blocks.
34. Electrocardiogram - signs of bundle branch blocks.
35. Electrocardiogram - signs of ventricular and supraventricular extrasystole.
36. Electrocardiogram - signs of paroxysmal tachycardias.
37. Electrocardiogram - signs of fibrillation of atriums.
38. General concept about metabolic syndrome.
39. Definition of syndrome of hypertrophy and dilatation of left ventricle, clinic.
40. Arterial hypertension. Definition, classification, the basic clinical implications.
41. A syndrome of disorder of the valving apparatus of heart (heart diseases) - definition, classification, aetiology. Mitral and aortal heart diseases.
42. Syndrome of arrhythmias. Definition, classification, clinic and diagnostics
43. Circulatory insufficiency syndrome (cardiac and vascular insufficiency) - definition, classification, the development causes, clinic, diagnostics.

Propedeutics of Internal diseases

Department of Propedeutics of Internal diseases
For students of 3rd course of Medical faculty

Topic 16: Subjective and objective methods of examination of patients with diseases of esophagus, stomach and intestines.

CONTROL QUESTIONS

1. Classification of complaints of patients with diseases of esophagus, stomach and intestines
2. «Esophageal» complaints.
3. «Gastric» complaints.
4. «Intestinal» complaints.
5. The general complaints.
6. The general survey and survey of mouth at patients with diseases of digestive organs.
7. Stomach survey: technique, diagnostic value of revealed changes. Distinguishing signs of ascites, meteorism and obesity.
8. Percussion of abdomen: technique, diagnostic value of revealed changes. Percussion of abdomen on Mendel.
9. Techniques of determination free and encysted liquid in the abdominal cavity: techniques, diagnostic value.
10. Auscultation of abdomen: diagnostic value of auscultation of peristaltic noises and noise of friction of peritoneum.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
2. Ivashkin, V.T. Internal diseases propedeutics. / V.T. Ivashkin., A.V. Okhlobystin. – M.: GEOTAR-Media, 2006.
3. Romankov, L.V. Theses of lectures on propedeutics of internal diseases / L.V. Romankov. – Гомель, УО «ГГМУ», 2012. – 156с.
4. Scheme of educational medical history in the clinic of propedeutics of internal diseases (GomSMU, 2010).

Propedeutics of Internal diseases

Department of Propedeutics of Internal diseases
For students of 3rd course of Medical faculty

Topic 17: Basic clinical syndromes at diseases of esophagus, stomach and intestines.

CONTROL QUESTIONS

1. Rumination syndrome
2. Pain syndrome
3. Dyspeptic syndrome
4. Syndrome of maldigestion and malabsorption
5. Syndrome of esophageal, gastric and intestinal bleeding

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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Propedeutics of Internal diseases

Department of Propedeutics of Internal diseases
For students of 3rd course of Medical faculty

Topic 18: Subjective and objective methods of examination of patients with diseases of the hepatobiliary system. Basic clinical syndromes at diseases of the hepatobiliary system.

CONTROL QUESTIONS

1. Complaints of patient with diseases of hepatobiliary system.
2. Mechanisms of occurrence and characteristics of pain syndrome in diseases of the liver and biliary tract
3. Objective signs of diseases of the hepatobiliary system
4. Jaundice (icterus): types, characteristics.
5. Clinic-laboratory syndromes at chronic hepatitises:
6. Clinic of hepatic encephalopathy.
7. Portal hypertension syndrome. Definition, clinic.

LITERATURE

1. Пронько, Т. П. Пропедевтика внутренних болезней = Propaedeutics of internal diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Т. П. Пронько, Е. М. Сурмач, А. В. Пырочкин. – Минск : Адукацыя і выхаванне, 2020. – 471 с. : ил., табл. – Допущено М-вом образования Респ. Беларусь.
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4. Scheme of educational medical history in the clinic of propedeutics of internal diseases (GomSMU, 2010).