# PHYSICAL EXAMINATION METHODS

Workbook

Surname, name

Group № \_\_\_\_\_

Minsk BSMU 2023

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ РЕСПУБЛИКИ БЕЛАРУСЬ БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ МЕДИЦИНСКИЙ УНИВЕРСИТЕТ КАФЕДРА ПРОПЕДЕВТИКИ ВНУТРЕННИХ БОЛЕЗНЕЙ

# ФИЗИКАЛЬНЫЕ МЕТОДЫ ИССЛЕДОВАНИЯ

# **PHYSICAL EXAMINATION METHODS**

Практикум

2-е издание, исправленное и дополненное



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#### **INTRODUCTION**

Qui pillars bene diagnoscit — bene curat.

At all times, the physical examination of the patient was the basis for the diagnosis of diseases. With the development of laboratory and instrumental methods, the diagnostic paradigm has changed: if 100–200 years ago, apart from physical methods (questioning, examination, palpation, percussion, auscultation), the doctor had nothing at his disposal and the diagnosis of the disease was made on the basis of physical findings, today, in most cases, the results of physical examination allow us to formulate a diagnostic hypothesis, and then a preliminary diagnosis, which must be confirmed or refuted by laboratory and instrumental studies.

At the same time, each of the practicing doctors knows that there are often situations when we do not have any technical devices at hand and are forced to focus on our own skills when making a diagnosis.

On the other hand, there are diagnoses that do not require laboratory and instrumental verification in principle. Even in such a high-tech country as the United States, in recent years, there has been a clear trend towards increasing the role of physical examination in the diagnostic process, which actually means rethinking the place and role of physical methods in the diagnostic process and significantly reducing the economic component of the diagnostic process. Obviously, this applies primarily to physicians and general practitioners.

Do we need and to what extent additional (laboratory and instrumental) methods for acute respiratory viral infection? To diagnose tonsillitis, it is enough to examine the palatine tonsils and detect the enlarged submandibular lymph nodes. There are many similar examples.

There are several aspects here. First, we must trust what we have found in patients. If we heard moist rales over the lungs, we must be sure that they are the very ones; if we have found an increase in the size of the liver according to Kurlov on percussion — we must be sure that this is the case. And for this purpose, it is necessary to know the correct technique of examination (often, only the wrong location of the pleximeter finger on the chest leads to sound distortion and loss of information during comparative percussion). The second practical aspect of physical examination is the ability to interpret your findings: it is not enough to hear a systolic murmur at the apex of the heart, you need to understand the mechanisms of its formation in order to understand the causes for its formation. And here it is very appropriate to quote the statement of the outstanding cardiologist of our time, Professor E. Braunwald, the author of the most popular textbook on cardiology Braunwald's Heart Disease, the first edition of which was published in 1980, said: "the skill of physical diagnostics are not only the work of hands, but also to a greater extent the work of thought". Finally, the third aspect of the physical examination is the diagnostic significance (value) of the revealed signs during the physical examination of the patient. An example from everyday life: we choose our shoes. The first "symptom" is shoes are "beautiful–ugly". The second "symptom" is "comfortable–uncomfortable". What is more important? What is the "diagnostic value" of these symptoms? I think it is obvious that the positive symptom "comfortable" is more likely to make us buy shoes than the symptom "beautiful". Well, it is true that some people sacrifice comfort for beauty.

Similarly, each physical symptom, each physical finding has its own diagnostic value. It can be presented as the frequency of occurrence of a symptom in a specific pathology, for example, pneumonia (more precisely, you should take into account the frequency of occurrence of a symptom in pneumonia and other diseases similar to pneumonia; such calculations are made by science, called Evidence-Based Medicine. For example, shortness of breath occurs in thromboembolism in 50 % of cases, pleuritic chest pain in PE — 39 %. In acute cholecystitis, tension in the upper right quadrant of the abdomen with superficial palpation occurs in 77 % of patients, a positive Murphy's symptom — in 65 % of cases. There are many similar examples; the diagnostic value of signs is the basis for the formation of diagnostic and prognostic scales, such as, for example, the risk scale of death from cardiovascular diseases, the Well's scale — the risk of developing pulmonary embolism, etc. It should be remembered that symptoms with 100 % diagnostic value are extremely rare. English-language textbooks must include information on the diagnostic value of symptoms in various diseases (for example, the textbook edited by A. Leung and R. Padwal Approach to Internal Medicine. A Resource Book for Clinical Practice, 2011).

Objective examination of the patient is based on 4 "pillars": inspection, palpation, percussion, auscultation. It has always been that way. And in 2018 one of the most prestigious journals in the world, JAMA (Journal American Medical Association), published an interesting article by American doctors J. Narula, Y. Chandrashekhar, E. Braunwald titled "Time to Add a Fifth Pillar to Bedside Physical Examination Inspection, Palpation, Percussion, Auscultation, and Insonation", JAMACardiol. doi: 10.1001/jamacardio. 2018. 0001, which can be translated as "It's time to add a fifth pillar to the patient's physical examination: inspection, palpation, percussion, auscultation, and ultrasound". In other words, the 5th pillar of the patient's physical examination is a bedside examination using a pocket ultrasound sensor. Obviously, we will not have this today and not even tomorrow, but taking into account the rapid progress I want to believe that the time is not far away when there will be not only a pulse oximeter but also a portable ultrasonic sensor in the pockets of a medical gown (by the way, in some American medical schools they are already given to students along with the stethoscopes).

This manual presents specific techniques for examining a patient. We have pursued several goals when preparing it. First, to teach students a uniform technique for conducting critical examinations. There are dozens, if not hundreds of books on propaedeutics of internal diseases, the descriptions of methods of physical examination are different, sometimes slightly, and sometimes significantly. Our teaching experience shows that it is difficult for a student who does not have his own clinical experience to choose the best method independently. A detailed description of a particular survey technique presented in this manual will help to unify them. When a young doctor acquires his clinical experience, he will be able to introduce certain modifications himself.

Secondly, the ground for conflict situations in exams disappears. Any teacher of propaedeutic disciplines can give many examples when a student responds to a remark about the incorrect technique of performing a practical skill: "And we were shown this way" or "And in such and such a book it is described this way". We tried to divide each technique into the smallest steps and put them into so-called "checklist" (scorecard). Scorecards are used all over the world in the framework of the objective structured clinical exam; in fact, the checklist eliminates the subjective factor of the teacher as much as possible.

And finally, third, we selected the clinical skills that have the highest diagnostic value, in other words, practical skills that no one practitioner can work without.

The technique of performing the skills is summarized in checklists, which are a detailed description of the doctor's actions. The use of scorecard in the process of teaching practical skills of physical examination is the first experience in Belarus, so there may be some shortcomings that will be corrected in future editions.

#### **Physical examination methods:**

- 1. Inspection of the skin and subcutaneous tissues.
- 2. Inspection and palpation of the lymph nodes of the head and neck.
- 3. Inspection and palpation of supra-, subclavian and axillary lymph nodes.
- 4. Inspection and palpation of inguinal and popliteal lymph nodes.
- 5. Inspection and palpation of the thyroid gland.
- 6. Chest shape estimation (inspection and palpation).
- 7. Palpation of the chest pain points.
- 8. Comparative percussion of the lung.
- 9. Assessment the inferior lung border.
- 10. Auscultation of the lungs.

11. Assessment the pulse on the radial, carotid arteries and dorsalis pedis arteries.

- 12. Palpation of the apical impulse.
- 13. Assessment of the relative heart dullness borders.
- 14. Auscultation of the heart.
- 15. Superficial palpation of the abdomen.
- 16. Palpation of the sigmoid colon.
- 17. Palpation of the cecum.

18. Palpation of the transverse colon.

19. Assessment of the liver size according to M. G. Kurlov's method.

20. Palpation of the liver.

21. Palpation of the kidneys in the horizontal position.

22. Palpation of the kidneys in the vertical position.

23. Palpation of the ureteral points, assessment of the kidney tenderness, auscultation of the renal arteries.

24. Palpation of the spleen.

#### GENERAL RULES AND PRINCIPLES OF OBJECTIVE EXAMINATION OF THE PATIENT

Physical examination of a patient consists of several consecutive stages (steps): 1) subjective, which includes evaluating the patient's perceptions of their illness; 2) objective — what the doctor finds; 3) additional, including laboratory and instrumental methods.

1 Step. Subjective examination of the patient Passport data Complaints The history of the present illness (anamnesis morbi) The history of life (anamnesis vitae) Step 2. Objective examination of the patient General examination, examination of body parts Examination of the respiratory system (inspection, palpation, percussion, auscultation) Examination of the cardiovascular system (inspection, palpation, percussion, auscultation) Examination of the digestive system (inspection, palpation, percussion, auscultation) Examination of the urinary organs (inspection, palpation, percussion, auscultation) Examination of the hematopoietic system (inspection, palpation, percussion, auscultation) Examination of the endocrine system (inspection, palpation, percussion, auscultation) Examination of the musculoskeletal system Formulation of the diagnostic hypothesis (preliminary diagnosis) Step 3. Additional methods (laboratory and instrumental methods) Laboratory methods — complete blood count, biochemical blood analysis, urinalysis, blood test for hormones, etc. Instrumental methods — electrocardiography, chest X-ray, ultrasonography, radioisotope method, magnetic resonance imaging, computed tomography, etc. Formulation of the final clinical diagnosis

Objective examination of the patient is based on 4 "pillars": inspection, palpation, percussion, auscultation.

When we start an objective examination of a patient, we must have an appropriate appearance. It should be remembered that the patient's first impression of the doctor is the strongest. It is only in the movies that geniuses (like Dr. House) can afford to come in their outer clothing, sloppy, make a diagnosis, prescribe treatment, and leave. In real clinical practice, everything is more complicated.

Requirements for students at the Department of Propaedeutics of Internal Diseases of BSMU include:

I. Appearance of the student.

1. Indoor footwear that can be disinfected if it gets dirty with biological fluids (leather or rubber). Sneakers are not allowed.

2. A gown below the level of the knee joint or a surgical suit.

3. A white gown must be buttoned.

- 4. Hair must be under a medical cap.
- 5. Nails in length have not to be longer the pulp of the fingers.
- 6. Colorless nail polish is allowed.

II. The student must have.

- a centimeter tape;
- a stethoscope;
- a dermograph or marker for the skin;
- a disposable mask;
- disposable gloves;
- light source (a pocket flashlight);
- wet alcohol wipes for hand hygiene;
- stopwatch or watch with a second hand;

When conducting an objective examination of a patient, certain requirements must be followed. The conditions in which the examination is performed should not aggravate the patient's suffering. The room where the examination is performed (doctor's office, ward) should be warm, without drafts, with natural light and isolation from possible external noise. The presence of strangers (other patients or relatives) is allowed only in certain cases (the patient is unconscious, the development of life-threatening conditions, etc.). The couch (bed) on which the patient is located and examined is covered with a clean white sheet. It should be flat, not too soft, with a low headboard, so that the patient does not feel uncomfortable during the examination. The results of the examination should be as complete as possible. A medical professional (doctor) conducts the examination in a clean, ironed white coat and cap. The hands of the researcher (doctor, medical professional) should be warm, clean, dry, with short-trimmed nails, without abrasions and pustules. Wash your hands with soap and water immediately before and after the examination. Latex gloves should be used when examining the patient. Before the examination, you should not use cologne, perfume or deodorant, eat acutely smelling food (onion, garlic), smoke, etc.

**Inspection (inspectio).** The inspection is begun with the so-called "general examination" (inspectio), which includes determining the level of consciousness, the position of the patient's body, constitution, nutrition (degree of fatness), the condition of the skin, mucous membranes, hair and nails. In addition, this section includes the measurement of vital signs (temperature, heart rate, blood pressure, respiratory rate). You should pay attention to the patient's speech (it reflects the level of intellectual development of the patient, possible disturbances of higher nervous activity), the state of the sensory organs (vision and hearing). During the examination, the patient's clothes are evaluated (neat, clean or not), the presence of a specific smell (characterizes the level of personal hygiene and the presence of problems with urination — urinary incontinence).

To obtain reliable information during a general examination, the patient must be completely undressed (however, in some cases, sequential exposure of body parts is allowed). Therefore, there should be no unauthorized persons in the room. In some cases, the place of examination of the patient should be screened off. The air temperature should be 18-22 °C, so that the patient does not have any discomfort during the examination by a medical professional. The lighting should be sufficient, preferably natural. When using artificial light, you should use daylight lamps, since incandescent lamps can give the skin a jaundiced hue. The patient should be examined both in direct light (for example, with his face or back to the light source) and in side light (ask the patient to turn sideways), since some signs, such as changes in the configuration of a body part or pulsation of blood vessels, can only be clearly recognized in side light. The general examination and the chest examination should preferably be carried out in the patient's vertical position, and the abdominal examination should be performed both in vertical and horizontal positions, since the configuration of the abdomen can change significantly when the body position changes.

Next, a study of organs and systems is carried out, sequentially studying the state of the respiratory system, cardiovascular system, abdominal organs and genitourinary system.

The first stage of such an examination is a "local examination", in the process they examine those areas of the body that we are examining. For example, when examining the respiratory system, we examine the chest, when examining the digestive system-the stomach, etc. Experienced specialists include "local inspection" in the "general inspection" procedure, but while the researcher has minimal experience, in order not to miss important details, it is advisable to carry out an additional "local inspection".

**Palpation** (**palpatio**) is the next stage after a local examination, in which, on the basis of the sensations obtained when feeling tissues and organs, we make a conclusion about their physical properties, relative position and individual functions (peristalsis, pulsation, etc.), and identify painful points, tumors and other pathological formations on the skin. Palpation is a physical method of

examining the skin, subcutaneous tissues, muscles, bones, joints, and also allows you to assess the condition of internal organs. Superficial palpation is used to examine the skin, subcutaneous fat, peripheral (subcutaneous) lymph nodes, thyroid and mammary glands, muscles, bones, joints, peripheral arteries, chest and anterior abdominal wall. The skin is palpated by stroking, slightly touching it with the palms, and the underlying tissues are felt by sliding along their surface with the fingers of the palpating hand along with the skin of the examined area, while lightly pressing on the investigated surface. To determine the thickness, density and elasticity of the skin, it is grasped in a fold between the thumb and forefinger. A similar technique is also used in the study of subcutaneous fat, skeletal muscles and enlarged lymph nodes. Deep palpation is used mainly for the study of the abdominal cavity and kidneys. Palpation involves mainly fingers that exert pressure on the anterior abdominal wall in order to penetrate into the depth of the abdominal cavity and feel the examined internal organs.

**Percussion (percussio — pounding, tapping)** is a method of studying internal organs, which makes it possible to assess their condition by the characteristics of sounds that arise from short blows on the body surface or by a pleximeter placed on the patient's body (studying the density of underlying tissues, gas content, borders of organs with different densities, etc.). Currently, the most common is the finger-finger method of percussion (mediocre percussion), in which the researcher's finger pressed to the body serves as a pleximeter (pleximeter finger), and the striking finger serves as a hammer (hammer finger).

When performing percussion, you must keep to the following conditions and rules.

1. The room where percussion is performed should be warm and quiet. The hands of the doctor (examiner) should be warm (in order to avoid unpleasant sensations in the patient and reflex muscle contraction), and the nails should be cut short.

2. During percussion, the position of the doctor (examiner) and the patient should be comfortable, the latter should not have muscle tension. Percussion of the lungs is best performed in the patient's "standing" or "sitting" position, in case of a serious condition of the patient — when the patient is in a horizontal position. Percussion is performed on the naked part of the body. When performing percussion from the front, the doctor (examiner) should be on the right of the patient or in front of him, when performing percussion from behind — on the left or directly behind.

The technique of percussion is as follows. The left hand is placed with the palm surface on the examined area of the patient's body free from clothing so that the middle finger (pleximeter finger) is tightly pressed to the skin with its entire surface and does not come into contact with other fingers. The right hand with the fingers slightly bent at the joints is placed over the left hand, so that the middle finger (or index finger) of the right hand (hammer finger) is slightly lower than the other fingers, does not touch them and is located directly above the pleximeter finger of the left hand. Making swinging movements with the right hand (up and down) in the wrist joint, we apply two quickly successive short hits of the same strength and duration with the end of the terminal phalanx of the hammer finger on the bone base of the middle phalanx of the pleximeter finger. The direction of impact should be perpendicular to the back of the pleximeter finger. At the same time, both after the first and after the second blow, the hammer finger should bounce off the pleximeter finger. It is also necessary that each subsequent pair of percussion blows should have the same strength and interval between blows as the previous pair of blows.

Percussion sounds vary in volume, duration, and timbre. The volume of the percussion sound (with the same force of impact) depends on the air content in the examined organ. The duration of a percussion sound is directly proportional to the volume, since oscillations of a larger amplitude die down more slowly than oscillations of a smaller amplitude. Dense (airless) organs (liver, heart) and large masses of muscles give a quiet short sound, which is called dull, during percussion. It is detected above the heart, liver ("hepatic sound"), and other dense, air-free organs. Organs containing air (lungs) produce a loud, long-lasting, clear, percussion sound, called clear pulmonary. Percussion sounds contain a wide range of vibrations of different frequencies and amplitudes, which is associated with tissue heterogeneity. Therefore, their pitch is only conditionally estimated by the prevailing components. Tympanic sound (over the bowel): loud, long, high or low. It is detected over hollow, aircontaining organs (stomach, intestines, trachea). The tympanic sound is similar in nature to the sound produced by hitting a drum (tympanon - drum). The tympanic sound is dominated by low frequencies, while the femoral (hepatic) sound is dominated by high frequencies.

It should be remembered that, depending on the force of the impact, the percussive vibrations of the underlying tissues do not penetrate deeper than 7 cm.

Auscultation is a method of listening to sounds arising within inner organs.

According to the method of listening, there are two types of auscultation: a) direct auscultation, which is performed by applying the ear to the surface of the patient's body; b) indirect auscultation, which is performed using a stethoscope or phonendoscope.

A phonendoscope differs from a stethoscope by having a membrane (diaphragm), on the funnel that amplifies the sound. All steto-and phonendoscopes are closed acoustic systems in which the main conductor of sound is air. The ear tips of the stethoscope are placed in the auricles so that they fit snugly to the external auditory canal. The head of the stethoscope is tightly, but without pressure, set to the desired point on the patient's body. The head should fit the entire circumference of the skin. The sound-conducting tubes should not touch the patient's clothing and the doctor (examiner). It is advisable to slightly moisten a very dry skin, as well as hair-coat covering with water or lubricate with vaseline, so that when using a stethoscope, additional sounds do not occur. It is especially important to make sure that when the patient is breathing, when the skin is stretched due to an increase in the volume of the chest or abdomen during inspiration, there would be no friction against the head of the stethoscope. Auscultation should be long enough to draw correct conclusions about the presence or absence of a pathological process. Each of the two methods of auscultation (direct, indirect) has its own advantages and disadvantages.

During auscultation, as well as during percussion, certain rules and conditions must be observed.

1. The room where the auscultation is performed should be quiet and warm, so that no extraneous noise deadens the sounds listened to by the doctor (medical profession), and fibrillar twitching of muscle fibers that occur from the cold does not simulate various pathological sounds.

2. During auscultation the patient is standing or sitting (on a chair or on the bed). Seriously ill patients are listened to in the "lying down" position, and if necessary, they are carefully turned on their side. During auscultation in the "standing" position, it is advisable to hold the patient with your free hand, placing it on the opposite surface of the body to the auscultation.

3. The patient's chest should be free of clothing, which may cause additional sounds and murmurs when it comes into contact with the stethoscope head. Areas with pronounced hair should be slightly moistened with water or vaseline. This prevents the appearance of extraneous sounds that are not related to normal and pathological sounds heard in the lungs.

4. During auscultation, the head of the stethoscope or phonendoscope is held motionless by the end part with two fingers and is tightly applied to the patient's body with the entire edge of the funnel, but does not squeeze the tissues. Excessive pressure on the underlying tissues causes inhibition of vibrations of the tissues lying under the bell and, thereby, weakens the sound conduction. When listening, do not hold the stethoscope tube with your hand, in order to avoid rubbing with your fingers and causing side murmurs as a result. Auscultation should always be performed with the same stethoscope for better perception of its features to transmit sounds.

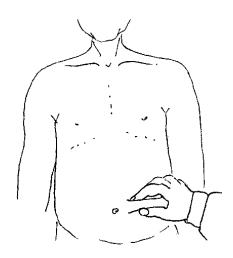
5. Depending on the objective, the mitral valve is better listened to when listening to a patient on the left side, and the aortic valve — on the right side). The patient's breathing should also be regulated; in some cases, for better perception or differentiation of existing auscultative phenomena, the patient is asked to cough or make a forced exhalation.

Thus, having prepared for the study of the patient, you can proceed to specific techniques.

#### **1. INSPECTION OF THE SKIN AND SUBCUTANEOUS TISSUES**



*Fig. 1.* Estimation of skin turgor (points 23–27)



*Fig. 3.* Estimation subcutaneous fat at the navel level (points 45–46)



Fig. 2. Estimation of edema (points 28–34)



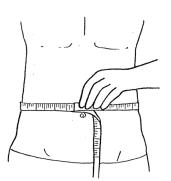


Fig. 4. Measure the waist circumference (points 48–50)



Fig. 5. Measure the circumference of the thighs (points 51-54)

# PRACTICAL SKILL SCORECARD

Surname, Name \_\_\_\_\_ Group \_\_\_\_ Date \_\_\_\_\_

		1 - done	
N⁰	Compliance criteria	0 — not	
	*	done	
	Preparatory stage		
1	Greet the patient		
2	Introduce yourself to the patient		
3	Ask the patient's full name		
4	Ask the patient's age		
5	Ask about the patient's condition at the beginning of the examina-		
	tion		
6	Tell the patient the name of the examination method "Inspection of		
	the skin and subcutaneous tissues"		
7	Get the patient's consent for the examination		
8	Ask the patient to take off his clothing from his upper part of body		
9	Position the patient in an upright position facing the daylight source		
10	Ask the patient to put his arms down		
11	Perform hand hygiene (gloves are optional)*		
12			
Main stage			
The color of the skin			
13	Assess the color of the skin of the face, head and neck		
14	Announce the results of the examination: the skin color of the face,		
	head and neck is pale pink (pale, cyanotic, jaundice, hyperemic,		
	hyperpigmented, depigmentation foci)		
15	Pathological elements (roseola, erythema, urticaria, purpura, pete-		
	chiae, herpes, shingles, xanthelasma, vascular "stars", scars, skin		
	tightening, ulceration, bedsores, scratching, varicose veins) on		
	the face, head and neck are present or absent		
16	Assess the color of the skin of the chest in front and behind, the skin		
	of the hands		
17	Make a conclusion: the skin color of the chest and hands is pale		
	(pink, pale, cyanotic, jaundice, hyperemic, hyperpigmented,		
10	depigmentation foci).		
18	Pathological elements (roseola, erythema, urticaria, purpura, pete-		
	chiae, herpes, shingles, xanthelasma, vascular "stars", scars, skin		
	tightening, ulceration, bedsores, scratching, varicose veins) on		
10	the chest and hands are present or absent		
19	Ask the patient to take off his clothing from the abdomen, legs and		
	feet		
20	Assess the color of the skin of the abdomen, legs and feet		

21	Make a conclusion: the color of the skin of the abdomen and lower			
	extremities is pale (pink, pale, cyanotic, jaundice, hyperemic,			
	hyperpigmented, depigmentation foci).			
22	Pathological elements (roseola, erythema, urticaria, purpura,			
	petechiae, herpes, shingles, xanthelasma, vascular "stars", scars,			
	skin tightening, ulceration, bedsores, scratching, varicose veins) on			
	the abdomen, legs and feet are present or absent			
	Skin Turgor			
23	With the thumb and forefinger of the right hand grasp the fold in			
	the middle of the back of the patient's hand (parallel to the axis of			
	the middle finger)			
24	Squeeze the skin fold lightly for 1–2 seconds			
25	Pull the fold up a little			
26	Release the skin fold			
27	Make a conclusion: the skin turgor is normal or reduced			
	Edema			
28	Examine the patient's face, hands and lower limbs			
29	With the thumb of your right hand press on the skin of the back of			
	the hand slowly (within 5 seconds)			
30	Remove the finger from the patient's skin			
31	With the thumb of your right hand press on the skin of the back of			
	the foot slowly (within 5 seconds)			
32	With the thumb of your right hand press on the skin of the anterior			
	surface of the leg in the middle third of the tibia slowly (within			
	5 seconds)			
33	Make a conclusion: edema is present or absent			
34	Localization of edema if present			
Moisture				
35	Examine the skin, paying attention to the moisture of the skin			
36	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of the patient's chest at the level of the 2 <sup>nd</sup> -3 <sup>rd</sup>			
	ribs along the midclavicular lines			
37	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of the inner surface of the patient's forearms			
38	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of the outer surface of the patient's forearms			
39	Make a conclusion: the skin is dry or wet on palpation			
Temperature				
40	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of the patient's forehead			
41	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of inner surface of the patient's forearms			
42	With the back of the fingers of both hands touch the skin shortly on			
	the symmetrical areas of the anterior-lateral surface of the legs			

<ul> <li>43 Make a conclusion: the skin temperature normal, increased or decreased</li> <li>44 The temperature of the skin of the e the same in symmetrical areas</li> <li>Degree of development</li> <li>45 Grab the horizontal fat fold at the nav with the thumb and index fingers of the</li> </ul>	xtremities is the same / not t of subcutaneous fat el level (5 cm away from it) e right hand so that it contains		
<ul> <li>44 The temperature of the skin of the end of the same in symmetrical areas</li> <li>Degree of development</li> <li>45 Grab the horizontal fat fold at the nave with the thumb and index fingers of the</li> </ul>	t of subcutaneous fat el level (5 cm away from it) e right hand so that it contains		
the same in symmetrical areasDegree of development45Grab the horizontal fat fold at the nav with the thumb and index fingers of the	t of subcutaneous fat el level (5 cm away from it) e right hand so that it contains		
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45 Grab the horizontal fat fold at the nav with the thumb and index fingers of the	el level (5 cm away from it) e right hand so that it contains		
with the thumb and index fingers of the	right hand so that it contains		
the skin and subcutaneous fat layer	old with a ruler, and make		
46 Measure the thickness of the skin for			
a conclusion: the result (normally 2–3 c	em)		
47 Suggest that the patient put their feet to	ogether, spread their arms out		
to the side, and distribute the weight eve	enly on both legs		
48 Measure the waist circumference	*		
the midpoint of the distance between	the lower edge of the costal		
arch and the iliac bones			
49 Measurement is performed in the ex	halation phase with normal		
breathing			
50 Make a conclusion (cm)			
51 Measure the circumference of the thigh	is above the gluteal fold with		
· · · · · · · · · · · · · · · · · · ·	a measure tape		
	Make a conclusion: the development of subcutaneous fat in the abdominal region is normal, excessive or reduced		
<b>`</b>			
the norm	(Europid) less than 80 cm, for men less than 94 cm) or exceeds		
58 Waist-to-hip ratio is normal (less that	n 0.85 for women: less than		
0.9 cm for men) or exceeds the norm			
Completion of the procedure			
59 Thank the patient			
60 Ask the patient to get dressed			
61 Perform hand hygiene			
Total points Mark			
(minimum 43 points)			

Full name of the teacher \_\_\_\_\_\_ Signature \_\_\_\_\_

\* Note: Wear gloves every time you touch broken skin, mucous membranes, blood or bodily fluids.

#### 2. INSPECTION AND PALPATION OF THE LYMPH NODES OF THE HEAD AND NECK



*Fig. 6.* Lymph nodes location on head and neck

*Fig.* 7. Palpation of posterior auricular lymph nodes (points 27–29)

*Fig.* 8. Palpation of submental lymph nodes (points 68–79)

*Fig. 9.* Palpation of posterior cervical lymph nodes (points 80–82)

# PRACTICAL SKILL SCORECARD

Surname, Name \_\_\_\_\_ Group \_\_\_ Date \_\_\_\_\_

		1 - done			
N⁰	Compliance criteria	0 - not			
		done			
	Preparatory stage				
1	Greet the patient				
2	Introduce yourself to the patient				
3	Ask the patient's full name				
4	Ask the patient's age				
5	Ask about the patient's condition at the beginning of the examination				
6	Tell the patient the name of the examination method "Inspection and				
	palpation of the lymph nodes of the head and neck"				
7	Get the patient's consent for the examination				
8	Ask the patient to take off his clothing from his upper part of body				
9	Ask the patient to take an upright position, facing the source of day-				
	light				
10	Ask the patient for pain in the area of head or neck				
11	Warn the patient to report about painful sensations on palpation				
12	Perform hand hygiene (gloves are optional)				
13	Stand in front of the patient, facing him				
	Main stage				
	Inspection and palpation of the occipital lymph nodes				
14	Ask the patient to turn his head first to the right, then to the left, so				
	that the skin above the area of the lymph nodes on the left and right				
	is accessible for examination				
15	Examine the skin of the head and neck				
16	Make a conclusion: the lymph nodes of the head and neck are				
	visualized / not vizualized				
17	Place the II–V fingers of the right and left hands on the tuberclae of				
	the patient's occipital bone				
18	Palpate the surface of the occipital bone in a circular motion moving				
	from top to bottom.				
19	At the same time, gently press the occipital lymph nodes to the bone				
	tissue with the pulp of the bent II–V fingers				
20	Ask the patient if there is pain on palpation				
21	Make a conclusion: occipital lymph nodes are palpable / not palpable				
22	The size of lymph nodes (cm)				
23	Lymph node consistency (dense or soft)				
24	Movable or fixed				
25	Joined to each other with surrounding tissues or not				
26	Painful / not painful				

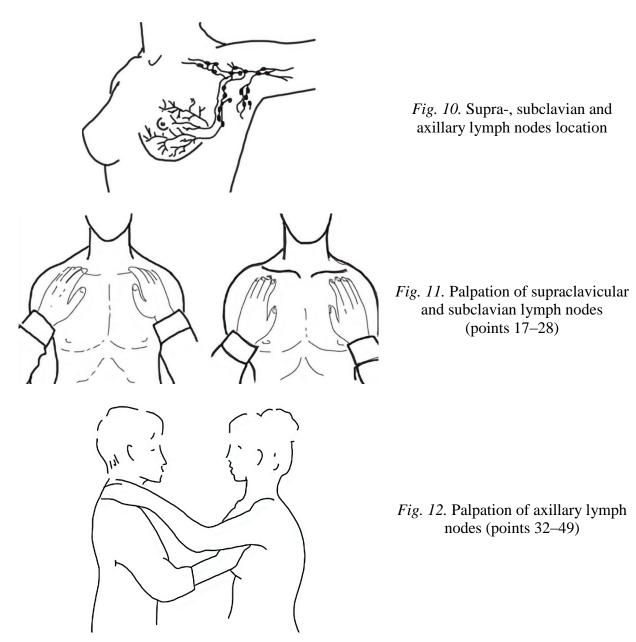
	Inspection and palpation of posterior, anterior and parotid lymph nodes			
27	Palpation is performed simultaneously on both sides			
28	Place the closed II–V fingers of the right and left hands symmetrical-			
	ly on both sides in the ear region			
29	Palpate the surface of the ear region from the base of the auricles and			
	over the entire surface of the mastoid process in a circular motion,			
	gently pressing the lymph nodes to the bone surface			
30	Place the tips of the bent II-V fingers of both hands at the base of			
	the ear in the area of the tragus			
31	Palpate the parotid lymph nodes in a circular motion, gently pressing			
	the lymph nodes to the bone surface			
32	Place the tips of the bent II–V fingers of both hands at the front edge			
	of the ear in the region of the posterior edge of the zygomatic arch			
33	The fingertips are pointing up			
34	Palpate the anterior ear lymph nodes in a circular motion, gently			
	pressing the lymph nodes to the bone surface			
35	Check the presence of pain on palpation			
36	Make a conclusion: the posterior, anterior, and parotid lymph nodes			
	are palpable / not palpable			
37	The size of lymph nodes (cm)			
38	Lymph node consistency (dense or soft)			
39	Movable or fixed			
40	Joined to each other with surrounding tissues or not			
41 Painful / not painful				
	Inspection and palpation of the submandibular lymph nodes			
42	Palpation of submandibular lymph nodes should be performed			
10	sequentially on one side and then on the other.			
43	Start with palpating the submandibular lymph nodes on the left side			
44	Ask the patient to tilt their head slightly forward and to the left			
45	Hold the patient's head in the right parietal region with the left hand			
46	Half-bent and closed tips of the II-V fingers of the right hand in			
	the supination position should be brought to the corner of the lower			
47	jaw on the left from the front of the neck			
47	Place the index finger on the area of the angle of the lower jaw			
48	Immerse the tips of the II–V fingers into the soft tissues of			
40	the submandibular area			
49	Make a raking sliding motion to the corner of the lower jaw, while			
50	gently pressing the lymph nodes to the bone tissue			
50	Move your right hand towards the chin Report the raking movements, gently pressing the lymph nodes to			
51	Repeat the raking movements, gently pressing the lymph nodes to			
50	the bone tissue Check the presence of psin on pelpetion			
52 53	Check the presence of pain on palpation			
53	Ask the patient to tilt their head slightly forward and to the right			
54	Hold the patient's head in the left parietal region with the right hand			

55       Half-bent and closed tips of the II-V fingers of the left hand in the supination position should be brought to the corner of the lower jaw on the right from the front of the neck         56       Place the index finger on the area of the angle of the lower jaw         57       Immerse the tips of the II-V fingers into the soft tissues of the submandibular area         58       Make a raking sliding motion to the corner of the lower jaw, while gently pressing the lymph nodes to the bone tissue         59       Move your left hand towards the chin         60       Repeat the raking movements, gently pressing the lymph nodes to the bone tissue         61       Check the presence of pain on palpation         62       Make a conclusion: submandibular lymph nodes are palpable / not palpable         63       The size of lymph nodes (cm)         64       Lymph node consistency (dense or soft)         65       Movable or fixed         66       Joined to each other with surrounding tissues or not         67       Painful / not painful         Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of					
jaw on the right from the front of the neck         56       Place the index finger on the area of the angle of the lower jaw         57       Immerse the tips of the II–V fingers into the soft tissues of the submandibular area         58       Make a raking sliding motion to the corner of the lower jaw, while gently pressing the lymph nodes to the bone tissue         59       Move your left hand towards the chin       6         60       Repeat the raking movements, gently pressing the lymph nodes to the bone tissue       6         61       Check the presence of pain on palpation       6         62       Make a conclusion: submandibular lymph nodes are palpable / not palpable       6         63       The size of lymph nodes (cm)       6         64       Lymph node consistency (dense or soft)       6         65       Movable or fixed       6         66       Joined to each other with surrounding tissues or not       6         67       Painful / not painful       Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head       6         70       Turn the half-bent right hand palm up       71         71       Place the index finger of the right hand under the chin angle of the lower jaw       1         72       With sliding finger movements from back to front and from top to bottom	55	Half-bent and closed tips of the II–V fingers of the left hand in			
56       Place the index finger on the area of the angle of the lower jaw         57       Immerse the tips of the II–V fingers into the soft tissues of the submandibular area         58       Make a raking sliding motion to the corner of the lower jaw, while gently pressing the lymph nodes to the bone tissue         59       Move your left hand towards the chin         60       Repeat the raking movements, gently pressing the lymph nodes to the bone tissue         61       Check the presence of pain on palpation         62       Make a conclusion: submandibular lymph nodes are palpable / not palpable         63       The size of lymph nodes (cm)         64       Lymph node consistency (dense or soft)         65       Movable or fixed         66       Joined to each other with surrounding tissues or not         70       Turn the analf-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes to the bone tissue         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue					
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61       Check the presence of pain on palpation         62       Make a conclusion: submandibular lymph nodes are palpable / not palpable         63       The size of lymph nodes (cm)         64       Lymph node consistency (dense or soft)         65       Movable or fixed         66       Joined to each other with surrounding tissues or not         67       Painful / not painful         Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful         Inspection	60				
62       Make a conclusion: submandibular lymph nodes are palpable / not palpable         63       The size of lymph nodes (cm)         64       Lymph node consistency (dense or soft)         65       Movable or fixed         66       Joined to each other with surrounding tissues or not         67       Painful / not painful         Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         74       Movable or fixed         75       Movable or fixed         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful </td <td></td> <td></td> <td></td>					
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65       Movable or fixed         66       Joined to each other with surrounding tissues or not         67       Painful / not painful         Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful         Inspection and palpation of the anterior and posterior cervical lymph nodes         80       Palpation is performed simultaneously on both sides         81       Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides <td>-</td> <td></td> <td></td>	-				
66       Joined to each other with surrounding tissues or not         67       Painful / not painful         Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful         11       Inspection and palpation of the anterior and posterior cervical lymph nodes         80       Palpation is performed simultaneously on both sides         81       Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides         82       Perform palpation of the	-				
67       Painful / not painful       Inspection and palpation of the submental lymph nodes         68       Ask the patient to lower their head       9         69       Hold the patient's head in the parietal region with the left hand         70       Turn the half-bent right hand palm up         71       Place the index finger of the right hand under the chin angle of the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful <b>Inspection and palpation of the anterior and posterior cervical lymph nodes</b> 80       Palpation is performed simultaneously on both sides         81       Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides         82       Perform palpation of the posterior cervical lymph nodes, moving <td></td> <td></td> <td></td>					
Inspection and palpation of the submental lymph nodes           68         Ask the patient to lower their head           69         Hold the patient's head in the parietal region with the left hand           70         Turn the half-bent right hand palm up           71         Place the index finger of the right hand under the chin angle of the lower jaw           72         With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue           73         Check the presence of pain on palpation           74         Make a conclusion: the submental lymph nodes are palpable / not palpable           75         The size of lymph nodes (cm)           76         Lymph node consistency (dense or soft)           77         Movable or fixed           78         Joined to each other with surrounding tissues or not           79         Painful / not painful           Inspection and palpation of the anterior and posterior cervical lymph nodes           80         Palpation is performed simultaneously on both sides           81         Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides           82         Perform palpation of the posterior cervical lymph nodes, moving					
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<ul> <li>71 Place the index finger of the right hand under the chin angle of the lower jaw</li> <li>72 With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue</li> <li>73 Check the presence of pain on palpation</li> <li>74 Make a conclusion: the submental lymph nodes are palpable / not palpable</li> <li>75 The size of lymph nodes (cm)</li> <li>76 Lymph node consistency (dense or soft)</li> <li>77 Movable or fixed</li> <li>78 Joined to each other with surrounding tissues or not</li> <li>79 Painful / not painful</li> <li>Inspection and palpation of the anterior and posterior cervical lymph nodes</li> <li>80 Palpation is performed simultaneously on both sides</li> <li>81 Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides</li> <li>82 Perform palpation of the posterior cervical lymph nodes, moving</li> </ul>					
the lower jaw         72       With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful         Imspection and palpation of the anterior and posterior cervical lymph nodes         80       Palpation is performed simultaneously on both sides         81       Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides         82       Perform palpation of the posterior cervical lymph nodes, moving	70				
<ul> <li>72 With sliding finger movements from back to front and from top to bottom, palpate, while gently pressing the lymph nodes to the bone tissue</li> <li>73 Check the presence of pain on palpation</li> <li>74 Make a conclusion: the submental lymph nodes are palpable / not palpable</li> <li>75 The size of lymph nodes (cm)</li> <li>76 Lymph node consistency (dense or soft)</li> <li>77 Movable or fixed</li> <li>78 Joined to each other with surrounding tissues or not</li> <li>79 Painful / not painful</li> <li>Inspection and palpation of the anterior and posterior cervical lymph nodes</li> <li>80 Palpation is performed simultaneously on both sides</li> <li>81 Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides</li> <li>82 Perform palpation of the posterior cervical lymph nodes, moving</li> </ul>	71				
bottom, palpate, while gently pressing the lymph nodes to the bone tissue         73       Check the presence of pain on palpation         74       Make a conclusion: the submental lymph nodes are palpable / not palpable         75       The size of lymph nodes (cm)         76       Lymph node consistency (dense or soft)         77       Movable or fixed         78       Joined to each other with surrounding tissues or not         79       Painful / not painful         Inspection and palpation of the anterior and posterior cervical lymph nodes         80       Palpation is performed simultaneously on both sides         81       Place the tips of the semi-bent II–V fingers of both hands along the back surface of the sternocleidomastoid (nodding) muscles symmetrically on both sides         82       Perform palpation of the posterior cervical lymph nodes, moving					
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symmetrically on both sides82Perform palpation of the posterior cervical lymph nodes, moving	81				
82 Perform palpation of the posterior cervical lymph nodes, moving					
the tingers in a circular motion from top to bottom along the muscle	82				
		the fingers in a circular motion from top to bottom along the muscle			

83	Place the tips of the s	semi-bent II–V fingers along the front edge of			
	the medial leg of the nodding muscle simultaneously on the right and				
		left. The index fingers are located below the angle of the lower jaw			
84	Palpate with your fingertips in a circular motion, moving from above				
		the angle of the lower jaw) down to			
	the sternoclavicular jo	int			
85	Check the presence of	pain on palpation			
86	Make a conclusion: the	ne anterior and posterior cervical lymph nodes			
	are palpable / not palp	able			
87	The size of lymph nod	les (cm)			
88	Lymph node consister	ncy (dense or soft)			
89	Movable or fixed				
90	Joined to each other w	vith surrounding tissues or not			
91 Painful / not painful					
Completion of the procedure					
92	Make a conclusion ab	out the results of the examination of the lymph			
	nodes				
93	Head and neck lymph nodes are visualized / not visualized				
94	Head and neck lymph nodes are palpable / not palpable				
95	Lymph nodes of which	h group are palpated — specify			
96	The size of lymph nod	les (cm)			
97	Lymph node consister	ncy (dense or soft)			
98	Movable or fixed				
99	Joined to each other with surrounding tissues or not				
100	Painful / not painful				
101	Thank the patient				
102	Ask the patient to get	dressed			
103	Perform hand hygiene				
Total points Mark					
(minimum 72 points)					

Full name of the teacher	Signature
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## 3. INSPECTION AND PALPATION OF SUPRA-, SUBCLAVIAN AND AXILLARY LYMPH NODES



# PRACTICAL SKILL SCORECARD

N⁰	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$		
	Preparatory stage			
1	Greet the patient			
2	Introduce yourself to the patient			
3	Ask the patient's full name			

4	Ask the patient's age		
5	Ask about the patient's condition at the beginning of the examination		
6	Tell the patient the name of the examination method "Inspection and		
	palpation of the supra-, subclavian and axillary lymph nodes"		
7	Get the patient's consent for the examination		
8	Ask the patient to take off his clothing from his upper part of body		
9	Position the patient in an upright position facing the daylight source		
10	Ask the patient for pain in the chest and armpits		
11	Warn the patient to report about painful sensations on palpation		
12	Perform hand hygiene (gloves are needed to axillary lymph nodes)		
13	Stand in front of the patient, facing him		
	Main stage		
	Inspection and palpation of supraclavicular and subclavian lymph n	nodes	
14	Examine the skin of the clavicle area		
15	Make a conclusion: supra-and subclavian lymph nodes are visualized		
	/ not visualized		
16	Ask the patient to lower their shoulders and slightly tilt their head		
	down to achieve muscle relaxation		
17	Palpate simultaneously on both sides		
18	Place the closed and horizontally positioned II-V fingers of both		
10	hands symmetrically on both sides in the supraclavicular fossae		
19	With the tips of the bent II–V fingers of both hands, in a circular		
	motion, palpate along the upper edge of the clavicle from the inside		
20	out, gently pressing the lymph nodes to the bone surface		
20	Place the closed and horizontally positioned II–V fingers of both hands symmetrically on both sides horizontally in the subclavian area		
21	With the tips of the II–V fingers of both hands, in a circular motion,		
21	palpate the subclavian region in a circular motion, pressing the lymph		
	nodes to the bone surface		
22	Check the presence of pain on palpation		
23	Make a conclusion: supra-and subclavian lymph nodes are palpable /		
	not palpable		
24	The size of lymph nodes (cm)		
25	Lymph node consistency (dense or soft)		
26	Movable or fixed		
27	Joined to each other with surrounding tissues or not		
28	Painful / not painful		
	Inspection and palpation of axillary lymph nodes		
29	Ask the patient to move their hands to the sides		
30	Examine the skin in the armpit area		
31	Make the conclusion: axillary lymph nodes are visualized / not		
	vizualized		
32	Palpation of axillary lymph nodes is performed alternately on		
	the right and then on the left side		
33	Put on gloves		

24				
34	To palpate the right axillary lymph nodes, put the patient's right hand on the opposite shoulder of the researcher			
35	Put the palm of the left hand vertically deep into the right axillary			
55	fossa			
36		ottom in circular sliding movements, gently		
50	-	es to the lateral surface of the chest		
37	Check the presence of			
38		f the axillary lymph nodes on the left, remove		
50		from the researcher's shoulder		
39	))))	hand on the researcher's opposite shoulder		
40		ght hand vertically deep into the left axillary		
	fossa			
41	Move from top to botto	om in circular motions, gently pressing against		
	the lateral surface of th	e chest		
42	Check the presence of	pain on palpation		
43	Remove the patient's h	and from the researcher's shoulder		
44	Make a conclusion: axi	llary lymph nodes are palpable / not palpable		
45	The size of lymph nodes (cm)			
46	Lymph node consistent	cy (dense or soft)		
47	Movable or fixed			
48	Joined to each other wi	th surrounding tissues or not		
49	49   Painful / not painful			
	Completion of the procedure			
50	Make a conclusion abo	out the results of the examination of the lymph		
	nodes			
51	-	d axillary lymph nodes are visualized / not		
	vizualized			
52		axillary lymph nodes are palpable / not palpable		
53	Lymph nodes of which	group are palpated — specify		
54	Which side (right / left)			
55	The size of lymph nodes (cm)			
56	Lymph node consistent	cy (dense / soft)		
57	Movable / fixed			
58	Joined to each other with surrounding tissues or not			
59	Painful / not painful			
60	Thank the patient			
61	Ask the patient to get d	ressed		
62	Take off the gloves			
63	Perform hand hygiene			
	Total points Mark			
(mi	(minimum 44 points)			

Full name of the teacher \_\_\_\_\_\_ Signature \_\_\_\_\_

#### 4. INSPECTION AND PALPATION OF INGUINAL AND POPLITEAL LYMPH NODES

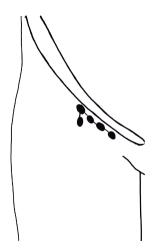


Fig. 13. Inguinal lymph nodes location



*Fig. 14.* Palpation of inquinal lymph nodes (points 17–32)



Fig. 15. Palpation of popliteal lymph nodes (points 36–49)

#### PRACTICAL SKILL SCORECARD

Sur	name, Name _	Group Date	
No		Compliance criteria	1 - done 0 - not

JN≌	Compnance criteria	0 - 101
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Check the patient's condition at the beginning of the examination	

6	Tell the patient the name of the examination method "Inspection and	
	palpation of inguinal and popliteal lymph nodes"	
7	Get the patient's consent for the examination	
8	Ask the patient to take off his clothing from his lower half of	
	the body	
9	Ask the patient to take a horizontal position (lying with straight legs)	
10	Ask the patient for pain in the inguinal, and popliteal areas	
11	Warn the patient to report painful sensations on palpation	
12	Perform hand hygiene, put on gloves	
13	Sit to the right of the patient, facing him	
	Main stage	
	Inspection and palpation of inguinal lymph nodes	
14	Examine the groin area	
15	Make a conclusion: the inguinal lymph nodes are visualized / not	
	visualized	
16	Determine the location of the inguinal ligament on the right	
17	Place the tips of the II–V fingers of the right hand in the middle of	
1.0	the inguinal ligament on the right	
18	Palpate above the level of the inguinal ligament on the right in	
10	a sliding circular motion	
19	Palpate below the level of the inguinal ligament on the right in	
20	a liding circular motion	
20	Specify the presence of pain on palpation	
21	Determine the location of the inguinal ligament on the left	
22	Place the tips of the II–V fingers of the right hand in the middle of	
22	the inguinal ligament on the left	
23	Palpate above the level of the inguinal ligament on the left in	
24	a sliding circular motion Palpate below the level of the inguinal ligament on the left in	
24	a sliding circular motion	
25	Specify the presence of pain on palpation	
26	Make a conclusion: the inguinal lymph nodes are palpable / not	
20	palpable	
27	The size of lymph nodes (cm)	
28	Lymph node consistency (dense or soft)	
30	Movable or fixed	
31	Joined to each other with surrounding tissues / not visualized	
32	Painful / not painful	
	Inspection and palpation of popliteal lymph nodes	
33	Ask the patient to stand up and turn their back to the daylight source	
34	Examine the patient's popliteal regions	
35	Make a conclusion: popliteal lymph nodes are visualized / not	
	visualized	
36	Ask the patient to sit so that the legs are at right angles to	
	the patient's thighs	

37	Sit opposite the patient	
38	Place both hands on the right knee joint of the patient so that	
	the thumbs are located on the patella, and the tips of the II–V fingers	
	are in the popliteal fossa	
39	With the pulp of the end phalanges of the bent II–V fingers of both	
	hands, palpate the popliteal fossa of the bent joint in a circular	
	motion, gently pressing the lymph nodes to the bone tissues	
40	Specify the presence of pain on palpation	
41	Place both hands on the left knee joint of the patient so that	
	the thumbs are located on the patella, and the tips of the II–V fingers	
	are in the popliteal fossa	
42	With the pulp of the end phalanges of the bent II-V fingers of both	
	hands, palpate the popliteal fossa of the bent joint in a circular	
	motion, gently pressing the lymph nodes to the bone tissues	
43	Specify the presence of pain on palpation	
44	Make a conclusion: popliteal lymph nodes are palpable / not palpable	
45	The size of lymph nodes (cm)	
46	Lymph node consistency (dense or soft)	
47	Movable or fixed	
48	Joined to each other with surrounding tissues or not	
49	Painful / not painful	
	Completion of the procedure	
50	Make a conclusion about the results of the examination of the lymph	
	nodes	
51	Inguinal and popliteal lymph nodes are visualized / not visualized	
52	Inguinal, popliteal lymph nodes are palpable / not palpable	
53	Lymph nodes of which group are palpated — specify	
54	Which side (right / left)	
55	The size of lymph nodes (cm)	
56	Lymph node consistency (dense or soft)	
57	Movable or fixed	
58	Joined to each other with surrounding tissues or not	
59	Painful / not painful	
60	Thank the patient	
61	Ask the patient to get dressed	
62	Perform hand hygiene, take off the gloves	_
	tal points Mark	
(mi	inimum 43 points)	

# 5. INSPECTION AND PALPATION OF THE THYROID GLAND

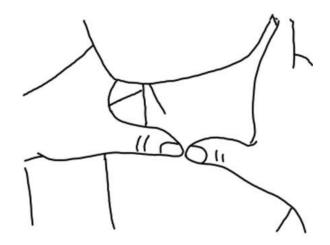


Fig. 16. Palpation of istmus of thyroid gland (points 19-24)

## PRACTICAL SKILL SCORECARD

Surname, Name \_\_\_\_\_ Group \_\_\_\_ Date \_\_\_\_\_

		1 - done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Inspection and	
	palpation of the thyroid gland"	
7	Get the patient's consent for the examination	
8	Ask the patient to take off his clothing from his neck and decollete	
	area	
9	Ask the patient to take a vertical position facing the source of daylight	
10	Ask the patient for pain in the area of neck	
11	Perform hand hygiene (gloves are optional)	
	Main stage	
	Inspection and palpation of thyroid gland	
12	Stand in front of the patient, facing him	
13	Ask the patient to turn their head to the right	
14	Examine the anterior-left surface of the neck	
15	Ask the patient to turn their head to the left	
16	Examine the anterior-right surface of the neck	

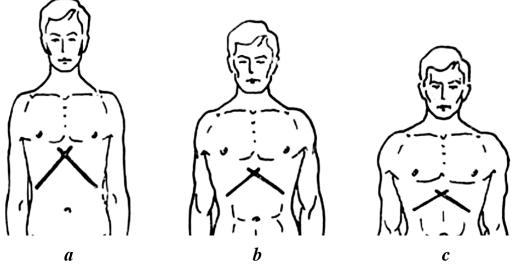
17		
1/	Ask the patient to bend his head slightly forward	
18	With the tips of the thumbs palpate the location of the thyroid and	
	cricoid cartilage on the front surface of the neck on both sides	
19	Place the thumbs of both hands below the cricoid cartilage on both	
	sides of the anterior median line	
20	Place II–IV fingers of both hands on the back of the patient's neck	
21	With the thumbs of both hands below the cricoid cartilage, perform a	
	sliding motion from top to bottom, palpating isthmus of thyroid gland	
22	The movement is performed simultaneously from both sides	
23	Ask the patient to swallow saliva	
24	When swallowing, fix the thumbs of both hands on the isthmus of	
	the thyroid gland	
25	With circular motions with the thumbs of both hands, palpate	
	the lobes of the thyroid gland	
26	Palpation is carried out simultaneously from both sides	
27	The thumbs move laterally and upward to the upper edge of	
	the thyroid cartilage	
28	Specify the presence of pain on palpation	
	Completion of the procedure	
29	Make a conclusion about the results of the inspection: the thyroid	
	gland is visualized / not visualized	
30	Make a conclusion about the results of palpation: the isthmus of	
	the thyroid gland is palpable / not palpable	
31	Thyroid lobes are palpable / not palpable	
32	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)	
32 33	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)	
32 33 34	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)Consistency (soft / dense)	
32 33 34 35	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)Consistency (soft / dense)Surface (smooth / nodular)	
32 33 34 35 36	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)Consistency (soft / dense)Surface (smooth / nodular)Consolidations (palpable / not palpable)	
32 33 34 35	Thyroid lobes are palpable / not palpableLocalization of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)Consistency (soft / dense)Surface (smooth / nodular)Consolidations (palpable / not palpable)Mobility when swallowing (normally the isthmus is displaced by	
32 33 34 35 36 37	Thyroid lobes are palpable / not palpableImage: Construct of the thyroid gland (typical / not typical)Localization of the thyroid gland (typical / not typical)Image: Construct of the thyroid gland is enlarged / not enlarged)Size (thyroid gland is enlarged / not enlarged)Image: Consistency (soft / dense)Surface (smooth / nodular)Image: Consolidations (palpable / not palpable)Mobility when swallowing (normally the isthmus is displaced by 1–2 cm)Image: Consolidation of the thyroid gland (typical / not palpable)	
32 33 34 35 36 37 38	Thyroid lobes are palpable / not palpableImage: Construct of the thyroid gland (typical / not typical)Size (thyroid gland is enlarged / not enlarged)Consistency (soft / dense)Consistency (soft / dense)Surface (smooth / nodular)Consolidations (palpable / not palpable)Consolidations (palpable / not palpable)Mobility when swallowing (normally the isthmus is displaced by 1–2 cm)Construction of the thyroid gland (typical / not painful / not painful / not painful	
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Full name of the teacher _	Signature
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6. CHEST SHAPE ESTIMATION (INSPECTION AND PALPATION)



Fig. 17. Estimation of epigastric angle (points 26–29)



*Fig. 18.* Normal chest shapes: *a* — asthenic (ectomopth); *b* — normosthenic (mesomorph); *c* — hypersthenic (endomorph)

# PRACTICAL SKILL SCORECARD

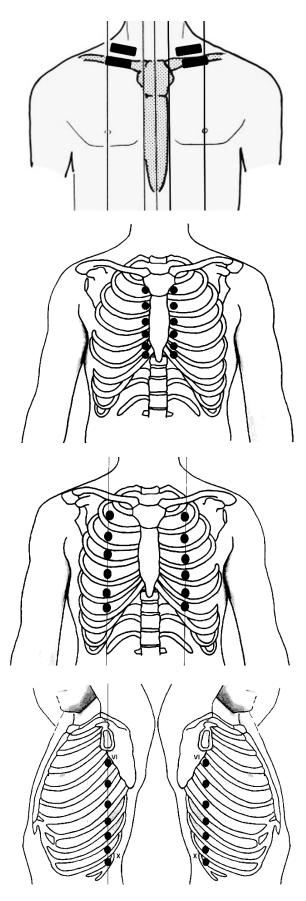
Sur	Surname, Name Group Date	
Nº	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask about the patient's age	

5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Chest shape	
	estimation"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of	
	daylight	
10	Ask the patient to put his arms down and then spread them to	
	the sides	
11	Ask the patient to breathe calmly and evenly	
12	Perform hand hygiene (gloves are optional)	
13	Stand in front of the patient, facing him	
	Main stage	
	Statical inspection of the chest	
14	Assess the symmetry of the clavicles location	
15	Make the conclusion: the clavicles are at the same level / not at	
1.0	the same level	
16	Examine the supraclavicular fossae	
17	Make the conclusion: the supraclavicular fossae are visible / not	
10	visible	
18	Symmetrical/ not symmetrical	
19 20	Assess the direction of the ribs	
20	Make the conclusion: the direction of the ribs is oblique / horizontal / close to vertical	
21	Examine the intercostal spaces	
21	Make the conclusion: the intercostal spaces are narrow / normal /	
	wide	
23	Assess the symmetry of the right and left halves of the chest. Make	
	the conclusion: both halves of the chest are symmetrical / not	
	symmetrical)	
24	Assess the symmetry of the shoulder joints	
25	Make the conclusion: the shoulder joints are symmetrical / not	
0.5	symmetrical	
26	Place the thumbs of the left and right hands on the costal right and	
27	left arches (palms are placed up and laterally)	
27	Join the nail phalanges of thumbs at the xiphoid process	
28	Assess the value of the epigastric angle by the angle between the thumbs	
29	Make a conclusion about epigastric angle: the epigastric angle is right /	
	sharp /obtuse	
30	Ask the patient to turn his back to the daylight source	
31	Ask the patient to put his hands down	
32	Assess the symmetry of the scapulas	
33	Make a conclusion: the scapulas are located symmetrically / not	
	symmetrically	

34	The scapulas are close / contoured (moderately close) / not close to	
	the chest	
35	Assess the deviation of the spine from the vertical axis	
36	Make a conclusion: pathological abnormalities of the spine were	
	identified / not identified	
37	Shape of the chest is normosthenic / asthenic / hypersthenic	
38	Chest deformation is detected / not detected	
	Dynamical inspection of the chest	
39	Ask the patient to take an upright position, facing the source of	
	daylight	
40	Determine the breathing pattern by visual observation of several	
	breathing excursions of the patient's chest	
41	Make the conclusion: the type of chest breathing is chest / abdominal /	
	mixed	
42	Determine respiratory rate by visual observation of the patient's chest	
	breathing excursions	
43	Place fingers on the patient's wrist as in case of pulse checking	
44	Respiratory movements should be counted within one minute using	
	a stopwatch or a clock with the second hand	
45	Make the conclusion: the frequency of respiratory movements is	
1.5	per minute (normally the respiratory rate is 14–20 per min)	
46	Determine the rhythm of breathing	
47	Make a conclusion: breathing is rhythmic / not rhythmic	
48	Pay attention to the intensity of the noise generated by the air flow in	
40	both phases of breathing	
49	Make a conclusion: additional sounds during breathing are heard / not	
50	heard	
51	Ask the patient to turn back to the daylight source Ask the patient to spread his arms to the sides	
52	Place the palms of both hands below the lower corner of the scapulas	
53	Place the thumbs of both hands vertically on the lower corners of	
55	the scapulas, II–IV fingers are directed to the axillary regions	
54	Ask the patient to respire using deep chest breathing	
55	The examiner should observe the angles of the scapulae and	
55	the movements of his hands during the act of the patient's breathing	
56	Make a conclusion: both halves of the chest are symmetrically / not	
00	symmetrically involved in the act of breathing	
	Completion of the procedure	
57	Thank the patient	
58	Ask the patient to get dressed	
59	Perform hand hygiene	
Tot	al points Mark	
(mi	nimum 41 points)	

Full name of the teacher \_\_\_\_\_\_ Signature \_\_\_\_\_

#### 7.1. PALPATION OF THE CHEST PAIN POINTS AT ANTERIOR AND LATERAL CHEST SURFACE



*Fig. 19.* Palpation of supraclavicular region and clavicle (points 19–24). Black lines indicate the area of palpation

*Fig. 20.* Palpation of edge of sternum along the intercostal spaces (points 25–34). Black spots indicate the points of palpation

II and III fingers of right hand are raised and parted like "V" sign.



*Fig. 21.* Palpation along the midclavicular line in the intercostal space (with both hands simultaneously) (points 35–43). Black spots indicate the points of palpation

*Fig. 22.* Palpation of the chest lateral surface along the intercostal space (with both hands simultaneously) (points 45–54). Black spots indicate the points of palpation

# PRACTICAL SKILL SCORECARD

Surname, Name \_\_\_\_\_ Group \_\_\_ Date \_\_\_\_\_

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NC.	Comunition of antical	1 - done
№	Compliance criteria	0 - not
	Deres esta esta est	done
1	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the chest pain points anterior and lateral chest surface"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of	
	daylight	
10	Ask the patient to put his arms down	
11	Ask the patient to relax the shoulder muscles	
12	Ask the patient to breathe calmly and evenly	
13	Ask the patient if he feels pain in the chest	
14	Ask the patient to inform you if he feels any pain on examination	
15	Perform hand hygiene (gloves are optional)	
	Main stage	1
16	Stand in front of the patient, facing him	
17	Ask the patient to turn his head to the side	
18	Place the left palm on the the patient's right shoulder joint	
	Palpation of supraclavicular region, clavicle	1
19	Palpate supraclavicular region on the right side with tips of II-V fin-	
	gers of right hand	
20	Palpate supraclavicular region on the left side with with tips of II-V	
	fingers of right hand	
21	Ask the patient if he feels pain	
22	Palpate the clavicle on the right side with with tips of II-V fingers of	
	right hand	
23	Palpate the clavicle on the left side with with tips of II-V fingers of	
	right hand	
24	Ask the patient if he feels pain on palpation	
	Palpation of edge of sternum along the intercostal space	
25	Palpate simultaneously left and right sides of the sternum edge along	
	first intercostalis space with tips of II and III fingers of right hand.	
	Fingers are raised and parted like "V" sign	

26	Delaste simultaneously left and right sides of the stamum edge elang			
26	Palpate simultaneously left and right sides of the sternum edge along			
	second intercostalis space with tips of II and III fingers of right hand. Fingers are raised and parted like "V" sign			
27	Palpate simultaneously left and right sides of the sternum edge along			
21	third intercostalis space with tips of II and III fingers of right hand.			
	Fingers are raised and parted like "V" sign			
28	Ask the patient if he feels pain			
29	Palpate simultaneously left and right sides of the sternum edge along			
2)	fourth intercostalis space with tips of II and III fingers of right hand.			
	Fingers are raised and parted like "V" sign			
30	Palpate simultaneously left and right sides of the sternum edge along			
50	fifth intercostalis space with tips of II and III fingers of right hand.			
	Fingers are raised and parted like "V" sign			
31	Palpate simultaneously left and right sides of the sternum edge along			
	fifth intercostalis space with tips of II and III fingers of right hand.			
	Fingers are raised and parted like "V" sign			
32	Ask the patient if he feels pain			
33	With the tips of the II–III bent fingers in the form of the letter "V" of			
	right hand, palpate simultaneously the left and right sides of the ster-			
	num edge along sixth intercostalis space			
34	Ask the patient if he feels pain			
Palpation along midclavicular line in the intercostal space				
(with both hands simultaneously)				
35	With the tips of the II–V bent fingers of both hands, palpate simulta-			
35	With the tips of the II–V bent fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in			
	With the tips of the II–V bent fingers of both hands, palpate simulta- neously from the left and right sides along the midclavicular line in the first intercostal space			
35 36	With the tips of the II–V bent fingers of both hands, palpate simulta- neously from the left and right sides along the midclavicular line in the first intercostal space With the tips of the bent II–V fingers of both hands, palpate simulta-			
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36 37	<ul> <li>With the tips of the II–V bent fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the first intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the second intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the second intercostal space</li> </ul>			
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36 37	<ul> <li>With the tips of the II–V bent fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the first intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the second intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the second intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the third intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the third intercostal space</li> </ul>			
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36 37 38 39 40 41	<ul> <li>With the tips of the II–V bent fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the first intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the second intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the third intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the third intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the fourth intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the fourth intercostal space</li> <li>Ask the patient if he feels pain</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the fifth intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the fifth intercostal space</li> <li>With the tips of the bent II–V fingers of both hands, palpate simultaneously from the left and right sides along the midclavicular line in the fifth intercostal space</li> </ul>			

(with both hands simultaneously)           44         Ask the patient to place both hands behind the head           45         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the fourth intercostal space from the left and right sides           46         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the fifth intercostal space from the left and right sides           47         Ask the patient if he feels pain           48         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the sixth intercostal space from the left and right sides           49         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the seventh intercostal space from the left and right sides           50         Ask the patient if he feels pain           51         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the eighth intercostal space from the left and right sides           52         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the ninth intercostal space from the left and right sides           53         With the tips of the both hands bent II–V fingers palpate along the mid-axillary line in the tenth intercostal space from the left and right sides           54         Ask the patient if he feels pain           54         Ask the patient if he feels pain           53         With the tips of the both hands bent II–V fin	Palpation of chest lateral surface along the intercostal space					
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Full name of the teacher	_ Signature
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## 7.2. PALPATION OF THE CHEST PAIN POINTS AT POSTERIOR CHEST SURFACE

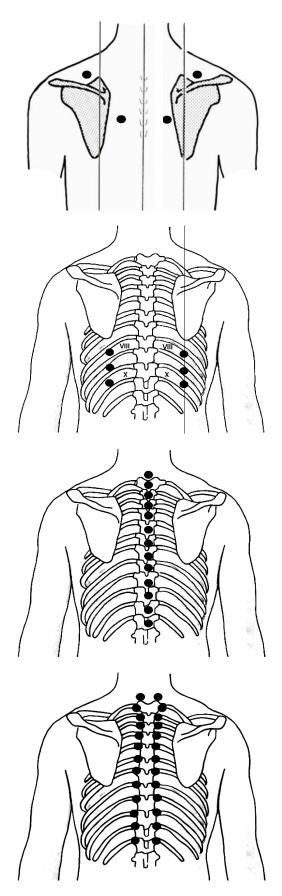


Fig. 23. Palpation of supraspinatus and interscapular regions (*with both hands simultaneously*) (points 15–17).Black spots indicate the area of palpation

*Fig. 24.* Palpation along the scapular lines (*with both hands simultaneously*) (points 18–21). Black spots indicate the area of palpation

*Fig. 25.* Palpation of spinous processes of thoracic vertebrae (points 22–39) (*with thumb of right hand*). Black spots indicate the points of palpation



Fig. 26. Palpation of paravertebral points
(points 40–55) (II and III fingers of right hand are raised and parted like "V" sign).
Black spots indicate the points of palpation



# PRACTICAL SKILL SCORECARD

		1 - done
N⁰	Compliance criteria	0 - not
•	Compliance enteria	done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the chest pain points at posterior chest surface"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of	
	daylight	
10	Ask the patient to turn back to the examiner and cross his arms over	
	his chest ("hug" himself)	
11	Ask the patient to breathe calmly and evenly	
12	Ask the patient if he feels pain in the chest	
13	Ask the patient to inform you if he feels any pain on examination	
14	Perform hand hygiene (gloves are optional)	
	Main stage	
	Palpation of supraspinatus, interscapularand subscapular region	ıs
	(with both hands simultaneously)	
15	With the tips of the bent II–V fingers of both hands, palpate the right	
	and left sides of the supraspinatus region	
16	With the tips of the bent II-V fingers of both hands, palpate the right	
	and left sides of the interscapular region	
17	Ask the patient if he feels pain for pain	
18	With the tips of the bent II-V fingers of both hands, palpate along	
	the scapular line right and left sides in the eighth intercostal space	
19	With the tips of bent II-V fingers of both hands, palpate along	
	the scapular line right and left sides in the ninth intercostal space	
20	With the tips of bent fingers II–V fingers of both hands, palpate along	
	the scapular line right and left sides in the tenth intercostal space	
21	Ask the patient if he feels pain	
	Palpation of the spinous processes of the thoracic vertebrae	
- 22	and paravertebral points	
22	Place the left palm on the the patient's left shoulder joint	
23	With the tip of the right bent thumb palpate the spinous process of	
	the VII cervical vertebra	

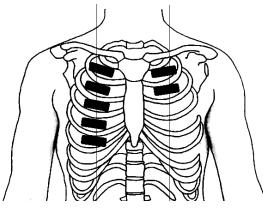
24	With the tip of the right bent thumb palpate the spinous process of
07	the I thoracic vertebra
25	With the tip of the right bent thumb palpate the spinous process of
26	the II thoracic vertebra
26	Ask the patient if he feels pain
27	With the tip of the right bent thumb palpate the spinous process of
• •	the III thoracic vertebra
28	With the tip of the right bent thumb palpate the spinous process of
	the VI thoracic vertebra
29	With the tip of the right bent thumb palpate the spinous process of
	the V thoracic vertebra
30	Ask the patient f if he feels pain
31	With the tip of the right bent thumb palpate the spinous process of
	the VI thoracic vertebra
32	With the tip of the right bent thumb palpate the spinous process of
	the VII thoracic vertebra
33	With the tip of the right bent thumb palpate the spinous process of
	the VIII thoracic vertebra
34	Ask the patient if he feels pain
35	With the tip of the right bent thumb palpate the spinous process of
	the IX thoracic vertebra
36	With the tip of the right bent thumb palpate the spinous process of
	the X thoracic vertebra
37	With the tip of the right bent thumb, palpate the spinous process of
	the XI thoracic vertebra
38	With the tip of the right bent thumb palpate the spinous process of
	the XII thoracic vertebra
39	Ask the patient if he feels pain
40	With the tips of the II–III bent fingers in the form of the letter "V" of
	right hand, palpate simultaneously the right and left paravertebral
	points at the level of the spinous process of the VII cervical vertebra
41	With the tips of the II–III bent fingers in the form of the letter "V" of
	right hand, palpate simultaneously the right and left paravertebral
	points at the level of the spinous process of the I thoracic vertebra
42	With the tips of the II–III bent fingers in the form of the letter "V" of
	right hand, palpate simultaneously the right and left paravertebral
	points at the level of the spinous process of the II thoracic vertebra
43	Ask the patient if he feels pain
44	With the tips of the II–III bent fingers in the form of the letter "V" of
	right hand, palpate simultaneously the right and left paravertebral
	points at the level of the spinous process of the III thoracic vertebra
45	With the tips of the II–III bent fingers in the form of the letter "V" of
	right hand, palpate simultaneously the right and left paravertebral
	points at the level of the spinous process of the IV thoracic vertebra

46		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the V thoracic vertebra	
47	Ask the patient if he fe		
48		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
	•	ne spinous process of the VI thoracic vertebra	
49		-III bent fingers in the form of the letter "V" of	
	•	imultaneously the right and left paravertebral	
		ne spinous process of the VII thoracic vertebra	
50		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the VIII thoracic vertebra	
51		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the IX thoracic vertebra	
52	•	-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the X thoracic vertebra	
53		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the XI thoracic vertebra	
54		-III bent fingers in the form of the letter "V" of	
		imultaneously the right and left paravertebral	
		ne spinous process of the XII thoracic vertebra	
55	Ask the patient if he fe	*	
		Completion of the procedure	
56		about the results of the examination: palpation	
		s is painful / not painful	
57	Localization of pain, i	f any	
58	Thank the patient		
59	Ask the patient to get		
60	Perform hand hygiene		
Total points Mark			
(mi	nimum 42 points)		

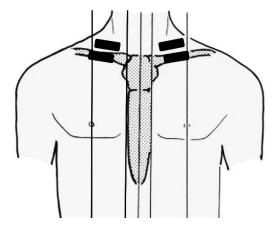
#### 8.1. COMPARATIVE PERCUSSION OF THE LUNG AT ANTERIOR AND LATERAL CHEST SURFACE



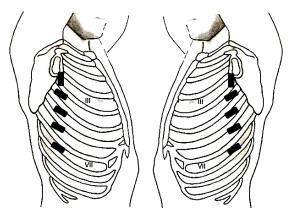
Fig. 27. Percussion technique



*Fig. 29.* Comparative percussion on intercostal spaces (points 50–118). Black lines indicate the location of pleximeter finger



*Fig.* 28. Comparative percussion on supraclavicular regions and clavicles (points 17–49). Black lines indicate the location of pleximeter finger



*Fig. 30.* Comparative percussion at lateral chest surface (points 122–201). Black lines indicate the location of pleximeter finger

#### PRACTICAL SKILL SCORECARD

Surn	ame, Name Group Date	
Nº	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
	<b>x</b>	done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	

6	Tell the patient the name of the examination method "Comparative	
	percussion of the lung at anterior and lateral chest surface"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of daylight	
10	Ask the patient to put his arms down	
11	Ask the patient to relax the shoulder muscles	
12	Ask the patient to breathe calmly and evenly	
13	Ask the patient about any pain in the chest	
14	Perform hand hygiene	
	Main stage	
	Percussion of the anterior surface of the chest	
15	Stand on the right opposite the right half of the patient's chest,	
	facing him	
16	Ask the patient to turn their head to the left	
	Comparative percussion on supraclavicular region	
17	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger	
	corresponds to the intended point of percussion	
18	Place the pleximeter finger on the right parallel to the clavicle in	
	the supraclavicular fossa	
19	Press the pleximeter finger tightly to the skin along the right mid-	
	clavicular line	
20	Place II and IV fingers apart, they do not touch the pleximeter finger	
21	Perform percussion using the loud percussion method in the supra-	
	clavicular fossa along the distal phalanx of the pleximeter finger	
22	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
23	Percuss below the nail of the distal phalanx (between the nail and	
	the distal interphalangeal joint)	
24	Short taps, equal strength, two at each point of percussion	
25	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
26	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
27	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger	
20	corresponds to the intended point of percussion	
28	Place the pleximeter finger on the left parallel to the clavicle in the supreclavioular forces	
20	the supraclavicular fossa Press the playimator finger tightly to the skin along the left mid	
29	Press the pleximeter finger tightly to the skin along the left mid- clavicular line	
20		
30	Place II and IV fingers apart, they do not touch the pleximeter finger	

31	Perform percussion using the loud percussion method in the supra-	
	clavicular fossa along the distal phalanx of the pleximeter finger	
32	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
33	Percuss below the nail of the distal phalanx (between the nail and	
	the distal interphalangeal joint)	
34	Short taps, equal strength, two at each point of percussion	
35	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
36	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
37	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	
	Comparative percussion on the clavicle	
38	Perform percussion using loud percussion directly along the right	
	clavicle along the mid-clavicular line	
39	As a hammer, use the middle finger of the right hand, bent at	
	the proximal and distal interphalangeal joints so that its terminal	
10	phalanx is perpendicular to the surface of the middle of the clavicle	
40	Tap on the center of the clavicle, the movement of tapping should	
	come from the right wrist	
41	Short taps, equal strength, two at each point of percussion	
42	The interphalangeal joints of the middle finger, elbow and shoulder	
12	joints of the right hand remain motionless	
43	After the second tap, the hammer finger should not remain pressed	
4.4	against the clavicle	
44	Perform percussion using the loud percussion method directly along	
15	the left clavicle along the mid-clavicular line	
45	Tap on the center of the clavicle, the movement of tapping should	
16	come from the right wrist Short tang, equal strength, two at each point of persuasion	
46 47	Short taps, equal strength, two at each point of percussion	
47	The interphalangeal joints of the middle finger, elbow and shoulder	
48	joints of the right hand remain motionless After the second tap, the hammer finger should not remain pressed	
40		
49	against the clavicle Compare the percussion sound, make the conclusion (if the percus-	
42	sion sound is the same on the right and left or not)	
	Comparative percussion in the subclavian region (1 <sup>st</sup> intercostal spe	
50	Place the palm of the left hand on the surface of the patient's body	<i>ice)</i>
50	so that the middle of the middle phalanx of the pleximeter finger	
	corresponds to the intended point of percussion	
51	Place the pleximeter finger horizontally along the right mid-	
	clavicular line in the 1 <sup>st</sup> intercostal space	
52	The pleximeter fingeris tightly pressed to the skin	

53	Place II and IV fingers apart, without touching the pleximeter finger	
54	Perform percussion using the loud percussion method along	
	the middle phalanx of the pleximeter finger	
55	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
	the middle finger of the left hand	
56	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
57	Short taps, equal strength, two at each point of percussion	
58	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
59	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
60	Move the pleximeter finger and position it horizontally along the left	
	mid-clavicular line in the 1 <sup>st</sup> intercostal space	
61	The pleximeter fingeris tightly pressed to the skin	
62	Place II and IV fingers apart, without touching the pleximeter finger	
63	Perform percussion using the loud percussion method along	
	the middle phalanx of the pleximeter finger	
64	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
65	Short taps, equal strength, two at each point of percussion	
66	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
67	After the second tap, the hammer finger should not remain pressed	
(0	against the pleximeter finger	
68	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	
60	<b>Comparative percussion in the</b> $2^{nd}$ <b>intercostal space</b>	[
69	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the middle phalanx of the pleximeter finger	
70	corresponds to the intended point of percussion The pleximeter finger is tightly pressed to the skin along the right	
/0	mid-clavicular line in the 2 <sup>nd</sup> intercostal space	
71	Place II and IV fingers apart, without touching the pleximeter finger	
72	Perform percussion using the loud percussion method along	
12	the middle phalanx of the pleximeter finger	
73	As a hammer, use the middle finger of the right hand bent in	 
15	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
	the middle finger of the left hand	
74	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
75	Short taps, equal strength, two at each point of percussion	

76	The interphalangeal joints of the middle finger, elbow and shoulder	
77	joints of the right hand remain motionless	
77	After the second tap, the hammer finger should not remain pressed against the pleximeter finger	
78	Move the pleximeter finger and position it horizontally along the left	
70	mid-clavicular line in the $2^{nd}$ intercostal space	
79	The pleximeter fingeris tightly pressed to the skin	
80	fingers are apart, without touching the pleximeter finger	
81	Perform percussion using the loud percussion method along	
01	the middle phalanx of the pleximeter finger	
83	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
84	Short taps, equal strength, two at each point of percussion	
85	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
86	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
87	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	
	Comparative percussion in the 3 <sup>rd</sup> intercostal space	
88	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the middle phalanx of the pleximeter finger	
00	corresponds to the intended point of percussion	
89	The pleximeter finger is tightly pressed to the skin along the right mid-clavicular line in the 3 <sup>rd</sup> intercostal space	
90	Place II and IV fingers apart, without touching the pleximeter finger	
91	Perform percussion using the loud percussion method along	
71	the middle phalanx of the pleximeter finger	
92	As a hammer, use the middle finger of the right hand bent in	
-	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
	the middle finger of the left hand	
93	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
94	Short taps, equal strength, two at each point of percussion	
95	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
96	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
97	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right 2 <sup>nd</sup> intercostal space and 3 <sup>rd</sup> inter-	
	costal space or not)	
	Comparative percussion in the 4 <sup>th</sup> intercostal space	
98	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the middle phalanx of the pleximeter finger	
	corresponds to the intended point of percussion	

<ul> <li>99 The pleximeter fingeris tightly pressed to the skin along the right mid-clavicular line in the 4<sup>th</sup> intercostal space</li> <li>100 II and the IV fingers are apart, without touching the pleximeter finger</li> <li>101 Perform percussion using the loud percussion method along the middle phalanx of the pleximeter finger</li> <li>102 As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the middle phalanx of the middle finger of the left hand</li> <li>103 Tap on the center of this phalanx, the movement of tapping should come from the right wrist</li> <li>104 Short taps, equal strength, two at each point of percussion</li> <li>105 The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless</li> <li>106 After the second tap, the hammer finger should not remain pressed against the pleximeter finger</li> <li>107 Compare the percussion sound, make the conclusion (if the percussion sound is the same on the right 3<sup>nd</sup> intercostal space</li> <li>108 Place the palm of the left hand on the surface of the patient's body so that the middle of the middle phalanx of the pleximeter finger</li> <li>109 The pleximeter finger is tightly pressed to the skin along the right mid-clavicular line in the 5<sup>th</sup> intercostal space</li> <li>110 Place II and IV fingers are apart, without touching the pleximeter finger</li> <li>111 Perform percussion using the loud percussion method along the right mid-clavicular line in the 5<sup>th</sup> intercostal space</li> </ul>	
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<ul> <li>101 Perform percussion using the loud percussion method along the middle phalanx of the pleximeter finger</li> <li>102 As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the middle phalanx of the middle finger of the left hand</li> <li>103 Tap on the center of this phalanx, the movement of tapping should come from the right wrist</li> <li>104 Short taps, equal strength, two at each point of percussion</li> <li>105 The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless</li> <li>106 After the second tap, the hammer finger should not remain pressed against the pleximeter finger</li> <li>107 Compare the percussion sound, make the conclusion (if the percussion sound is the same on the right 3<sup>nd</sup> intercostal space and 4<sup>th</sup> intercostal space or not)</li> <li>Comparative percussion in the 5<sup>th</sup> intercostal space</li> <li>108 Place the palm of the left hand on the surface of the patient's body so that the middle of the middle phalanx of the pleximeter finger corresponds to the intended point of percussion</li> <li>109 The pleximeter finger is tightly pressed to the skin along the right mid-clavicular line in the 5<sup>th</sup> intercostal space</li> <li>110 Place II and IV fingers are apart, without touching the pleximeter finger finger</li> <li>111 Perform percussion using the loud percussion method along</li> </ul>	
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111 Perform percussion using the loud percussion method along	
the middle phalanx of the pleximeter finger112As a hammer, use the middle finger of the right hand bent in	
the proximal and distal interphalangeal joints so that its terminal	
phalanx is perpendicular to the surface of the middle phalanx of	
the middle finger of the left hand	
113 Tap on the center of this phalanx, the movement of tapping should	
come from the right wrist	
114 Short taps, equal strength, two at each point of percussion	
115 The interphalangeal joints of the middle finger, elbow and shoulder	
joints of the right hand remain motionless	
116 After the second tap, the hammer finger should not remain pressed	
against the pleximeter finger	
117 Compare the percussion sound, make the conclusion (if the percus-	
sion sound is the same on the right 4 <sup>th</sup> intercostal space and 5 <sup>th</sup> inter-	
costal space or not)	
118 When the percussion sound is shortened in the 5th intercostal space,	
percussion is stopped, in the absence of shortening, the percussion is	
continued in the 6 <sup>th</sup> intercostal space	

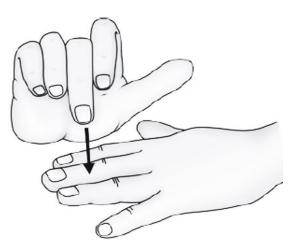
	Percussion of the lateral surfaces of the chest	
119	Ask the patient to place both hands on the back of the head	
120	Stand in front of the patient, facing him	
120	Ask the patient to turn his head to the left	
121	Comparative percussion in the axillary pits	
122	Place the pleximeter finger vertically in the right axillary fossa, the	
122	distal phalanx of the finger reaches the lower border of hair growth	
123	The pleximeter finger is tightly pressed to the skin	
124	Perform percussion using the loud percussion method in the $3^{rd}$	
125	intercostal space along the distal phalanx of the pleximeter finger	
126	As a hammer, use the middle finger of the right hand bent in	
120	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle finger of	
	the left hand	
127	Percuss below the nail of the distal phalanx (between the nail and	
	the distal interphalangeal joint)	
128	Short taps, equal strength, two at each point of percussion	
129	The interphalangeal joints of the 3 <sup>rd</sup> finger, elbow and shoulder	
	joints of the right hand remain motionless	
130	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
131	Place the pleximeter finger vertically in the left axillary fossa, the	
	distal phalanx of the finger reaches the lower border of hair growth	
132	The pleximeter finger is tightly pressed to the skin	
133	Place II and IV fingers apart, without touching the pleximeter finger	
134	Perform percussion using the loud percussion method in the 3 <sup>rd</sup>	
	intercostal space along the distal phalanx of the pleximeter finger	
135	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle finger of	
126	the left hand	
136	Tap on the center of this phalanx, the movement of tapping should	
127	come from the right wrist Short tang, aqual strength, two at each point of percession	
137	Short taps, equal strength, two at each point of percussion The interphalangeal joints of the 3 <sup>rd</sup> finger, elbow and shoulder	
138		
139	joints of the right hand remain motionless After the second tap, the hammer finger should not remain pressed	
137	against the pleximeter finger	
140	Compare the percussion sound, make the conclusion (if the percus-	
1-+0	sion sound is the same on the right and left or not)	
	Comparative percussion in the 4 <sup>th</sup> intercostal space	
141	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the middle phalanx of the pleximeter finger	
	corresponds to the intended point of percussion	

140	Dlage the playimator finger horizontally (along the intersected and	]
142	Place the pleximeter finger horizontally (along the intercostal space)	
142	along the right mid-axillary line in the 4 <sup>th</sup> intercostal space	
143	The pleximeter finger is tightly pressed to the skin	
144	Place II and the IV fingers apart, without touching the pleximeter finger	
145	Perform percussion in the 4 <sup>th</sup> intercostal space using the loud percus-	
1.1.5	sion method along the middle phalanx of the pleximeter finger	
146	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
1 47	the middle finger of the left hand	
147	Tap on the center of this phalanx, the movement of tapping should	
1.40	come from the right wrist	
148	Short taps, equal strength, two at each point of percussion	
149	The interphalangeal joints of the middle finger, elbow and shoulder	
150	joints of the right hand remain motionless	
150	After the second tap, the hammer finger should not remain pressed	
151	against the pleximeter finger	
151	Move the pleximeter finger, place it horizontally (along the inter-	
150	costal space) along the left mid-axillary line in the 4 <sup>th</sup> intercostal space	
152	The pleximeter finger is tightly pressed to the skin	
	Place II and IV fingers apart, without touching the pleximeter finger	
154	Perform percussion in the 4 <sup>th</sup> intercostal space using the loud percus-	
155	sion method along the middle phalanx of the pleximeter finger	
155	As a hammer, use the middle finger of the right hand bent in the provingel and distel intermedian and that its terminal	
	the proximal and distal interphalangeal joints so that its terminal phalany is perpendicular to the surface of the middle phalany of	
	phalanx is perpendicular to the surface of the middle phalanx of the middle finger of the left hand	
156	Tap on the center of this phalanx, the movement of tapping should	
150	come from the right wrist	
157	Short taps, equal strength, two at each point of percussion	
157	The interphalangeal joints of the middle finger, elbow and shoulder	
1.00	joints of the right hand remain motionless	
159	After the second tap, the hammer finger should not remain pressed	
159	against the pleximeter finger	
160	Compare the percussion sound, make the conclusion (if the percus-	
100	sion sound is the same on the right and left or not)	
	Comparative percussion in the 5 <sup>th</sup> intercostal space	
161	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the middle phalanx of the pleximeter finger	
	corresponds to the intended point of percussion	
162	Place the pleximeter finger horizontally (along the intercostal space)	
	along the right mid-axillary line in the 5 <sup>th</sup> intercostal space	
163	The pleximeter finger is tightly pressed to the skin	
164	Place II and IV fingers are apart, without touching the pleximeter finger	
104	race if and iv fingers are apart, without touching the pleximeter finger	

165	Perform percussion in the 5 <sup>th</sup> intercostal space using the loud percus-	
	sion method along the middle phalanx of the pleximeter finger	
166	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
	the middle finger of the left hand	
167	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
168	Short taps, equal strength, two at each point of percussion	
169	The interphalangeal joints of the middle finger, elbow and shoulder	l
	joints of the right hand remain motionless	
170	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
171	Move the pleximeter finger, place it horizontally (along the inter-	
	costal space) along the left mid-axillary line in the 5 <sup>th</sup> intercostal space	
172	The pleximeter finger is tightly pressed to the skin	
173	Place II and IV fingers are apart, without touching the pleximeter finger	
174	Perform percussion in the 5 <sup>th</sup> intercostal space using the loud percus-	l
	sion method along the middle phalanx of the pleximeter finger	
175	As a hammer, use the middle finger of the right hand bent in	l
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	l
	the middle finger of the left hand	
176	Tap on the center of this phalanx, the movement of tapping should	1
	come from the right wrist	
177	Short taps, equal strength, two at each point of percussion	
178	The interphalangeal joints of the middle finger, elbow and shoulder	1
	joints of the right hand remain motionless	
179	After the second tap, the hammer finger should not remain pressed	l
	against the pleximeter finger	
180	Compare the percussion sound, make the conclusion (if the percus-	l
	sion sound is the same on the right and left or not)	
	Comparative percussion in the 6 <sup>th</sup> intercostal space	
181	Place the palm of the left hand on the surface of the patient's body	1
	so that the middle of the middle phalanx of the pleximeter finger	l
100	corresponds to the intended point of percussion	
182	Place the pleximeter finger horizontally (along the intercostal space)	
100	along the right mid-axillary line in the 6th intercostal space	
183	The pleximeter finger is tightly pressed to the skin	
184	Place II and IV fingers apart, without touching the pleximeter finger	
185	Perform percussion in the 6 <sup>th</sup> intercostal space using the loud percus-	l
10-	sion method along the middle phalanx of the pleximeter finger	
186	As a hammer, use the middle finger of the right hand bent in	l
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the middle phalanx of	
	the middle finger of the left hand	1

187						
	come from the right wrist					
188	Short taps, equal strength, two at each point of percussion					
189	1 6 5					
	joints of the right hand remain motionless					
190						
	against the pleximeter finger					
191	Move the pleximeter finger, place it horizontally (along the inter-					
	costal space) along the left mid-axillary line in the 6 <sup>th</sup> intercostal					
	space					
192	The pleximeter finger is tightly pressed to the skin					
193	Place II and IV fingers apart, without touching the pleximeter finger					
194	Perform percussion in the 6 <sup>th</sup> intercostal space using the loud percus-					
	sion method along the middle phalanx of the pleximeter finger					
195	As a hammer, use the middle finger of the right hand bent in					
	the proximal and distal interphalangeal joints so that its terminal					
	phalanx is perpendicular to the surface of the middle phalanx of					
10.6	the middle finger of the left hand					
196	Tap on the center of this phalanx, the movement of tapping should					
105	come from the right wrist					
197	Short taps, equal strength, two at each point of percussion					
198	The interphalangeal joints of the middle finger, elbow and shoulder					
100	joints of the right hand remain motionless					
199	After the second tap, the hammer finger should not remain pressed					
200	against the pleximeter finger					
200	Compare the percussion sound, make the conclusion (if the percus-					
201	sion sound is the same on the right and left or not)					
201	When the percussion sound is shortened in the 6 <sup>th</sup> intercostal space,					
	percussion is stopped, in the absence of shortening, the percussion is continued in the 7 <sup>th</sup> intercostal space					
Completion of the procedure						
202	Make a conclusion about the results of the percussion: on compara-					
202	tive percussion of the lungs, a clear pulmonary sound is heard					
	(tympanic, hyperresonant, dullness, fatness (absolute dullness)					
203	Over symmetrical sections of the lungs the percussion sound is					
	the same / not the same					
204	Thank the patient					
205						
206						
	al noints					
(minimum 144 points) Mark						

### **8.2. COMPARATIVE PERCUSSION OF THE LUNG AT POSTERIOR CHEST SURFACE**



VII VII VIII VIII 

Fig. 31. Percussion technique

Fig. 32. Comparative percussion at posterior chest surface (points 15–130). Black lines indicate the location of pleximeter finger

#### PRACTICAL SKILL SCORECARD

N⁰	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Comparative	
	percussion of the lung at posterior chest surface"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position and turn back to	
	the researcher	
10	Ask the patient to cross arms to shoulder ("hug" themselves)	
11	Ask the patient to relax the shoulder muscles	
12	Ask the patient to breathe calmly and evenly	
13	Ask the patient about any pain in the chest	
14	Perform hand hygiene	

	Main stage	
	Comparative percussion in the fossa supraspinatus area	
15	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger corre-	
	sponds to the intended point of percussion	
16	Place the pleximeter finger horizontally on the left in the middle of	
	the supraspinatus area	
17	Press the pleximeter finger tightly to the skin along the right mid-	
	clavicular line	
18	Place II and IV fingers apart, they do not touch the pleximeter finger	
19	Perform percussion using the loud percussion method in the left	
	supraspinatus fossa	
20	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
01	the middle finger of the left hand	
21	Tap on the center of this phalanx, the movement of tapping should	
22	come from the right wrist	
22	Short taps, equal strength, two at each point of percussion	
23	The interphalangeal joints of the middle finger, elbow and shoulder	
24	joints of the right hand remain motionless After the second tap, the hammer finger should not remain pressed	
24	against the pleximeter finger	
25	Move the pleximeter finger horizontally to the middle of the right	
25	supraspinatus fossa	
26	Press the pleximeter finger tightly to the skin	
27	Place II and IV fingers apart, they do not touch the pleximeter finger	
28	Perform percussion using the loud percussion method in the right	
	supraspinatus fossa	
29	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
30	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
31	Short taps, equal strength, two at each point of percussion	
32	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
33	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
34	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	1
25	Comparative percussion at the level of the upper angle of the scape	ıla
35	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger corre-	
	sponds to the intended point of percussion	

36	Place the pleximeter finger vertically at the level of the upper corner	
	of the scapula on the left	
37	Press the pleximeter finger tightly to the skin along the right mid-	
	clavicular line	
38	Place II and IV fingers apart, they do not touch the pleximeter finger	
39	Perform percussion using the loud percussion method at the level of	
	the upper corner of the scapula on the left	
40	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
41	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
42	Short taps, equal strength, two at each point of percussion	
43	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
44	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
45	Place the pleximeter finger vertically at the level of the upper corner	
	of the scapula on the right	
46	Press the pleximeter finger tightly to the skin	
47	Place II and IV fingers apart, they do not touch the pleximeter finger	
48	Perform percussion using loud percussion method	
49	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
50	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
51	Short taps, equal strength, two at each point of percussion	
52	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
53	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
54	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	
	Comparative percussion along the medial edge of the scapula (middle	e level)
55	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger corre-	
	sponds to the intended point of percussion	
56	Place the pleximeter finger vertically on the left near the medial edge	
	of the scapula on the level of its middle	
57	Press the pleximeter finger tightly to the skin	
58	Place II and IV fingers apart, they do not touch the pleximeter finger	
59	Perform percussion using the loud percussion method	

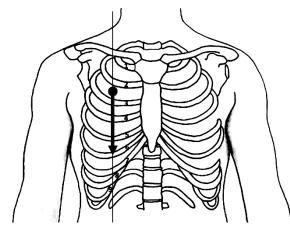
60		
60	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
61	the middle finger of the left hand	
61	Tap on the center of this phalanx, the movement of tapping should	
62	come from the right wrist Short tang, equal strength, two at each point of perguasion	
62 63	Short taps, equal strength, two at each point of percussion	
05	The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless	
64	After the second tap, the hammer finger should not remain pressed	
04	against the pleximeter finger	
65	Place the pleximeter finger vertically on the right near the medial	
05	edge of the scapula on the level of it middle	
66	Press the pleximeter finger tightly to the skin	
67	Place II and IV fingers apart, they do not touch the pleximeter finger	
68	Perform percussion using the loud percussion method	
69	As a hammer, use the middle finger of the right hand bent in	
0,	the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
70	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
71	Short taps, equal strength, two at each point of percussion	
72	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
73	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
74	Compare the percussion sound, make the conclusion (if the percus-	
	sion sound is the same on the right and left or not)	
	Comparative percussion along the medial edge of the scapula (low l	evel)
75	Place the palm of the left hand on the surface of the patient's body	
	so that the middle of the distal phalanx of the middle finger corre-	
76	sponds to the intended point of percussion	
76	Place the pleximeter finger vertically on the left near the medial edge	
77	of the scapula on the level of the lower angle	
77	Press the pleximeter finger tightly to the skin	
78 79	Place II and IV fingers apart, they do not touch the pleximeter finger	
	Perform percussion using the loud percussion method	
80	As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal	
	phalanx is perpendicular to the surface of the distal phalanx of	
	the middle finger of the left hand	
81	Tap on the center of this phalanx, the movement of tapping should	
01	come from the right wrist	
82	Short taps, equal strength, two at each point of percussion	
52	show app, equal buengai, the at each point of percussion	

83	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	L
84	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
85	Place the pleximeter finger vertically on the right near the medial	l
	edge of the scapula on the level of it down angle	
86	Press the pleximeter finger tightly to the skin	
87	Place II and IV fingers apart, they do not touch the pleximeter finger	
88	Perform percussion using the loud percussion method	
89	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its terminal	l
	phalanx is perpendicular to the surface of the distal phalanx of	l
	the middle finger of the left hand	l
90	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
91	Short taps, equal strength, two at each point of percussion	
92	The interphalangeal joints of the middle finger, elbow and shoulder	1
	joints of the right hand remain motionless	
93	After the second tap, the hammer finger should not remain pressed	1
	against the pleximeter finger	
94	Compare the percussion sound, make the conclusion (if the percus-	l
	sion sound is the same on the right and left or not)	
	Comparative percussion below the inferior angle of the scapula	ļ
	(7 <sup>th</sup> intercostal space)	
95	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body	
95	<i>(7<sup>th</sup> intercostal space)</i> Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre-	
	<i>(7<sup>th</sup> intercostal space)</i> Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion	
95 96	<i>(7<sup>th</sup> intercostal space)</i> Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down	
96	<i>(7<sup>th</sup> intercostal space)</i> Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin	
96 97	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger	
96 97 98	<i>(7<sup>th</sup> intercostal space)</i> Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method	
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96 97 98	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of	
96 97 98 99	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand	
96 97 98	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should	
96 97 98 99 100	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist	
96 97 98 99 100 101	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist Short taps, equal strength, two at each point of percussion	
96 97 98 99 100	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist Short taps, equal strength, two at each point of percussion The interphalangeal joints of the middle finger, elbow and shoulder	
96 97 98 99 100 101 102	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist Short taps, equal strength, two at each point of percussion The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless	
96 97 98 99 100 101	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist Short taps, equal strength, two at each point of percussion The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless After the second tap, the hammer finger should not remain pressed	
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96 97 98 99 100 101 102 103	(7 <sup>th</sup> intercostal space) Place the palm of the left hand on the surface of the patient's body so that the middle of the distal phalanx of the middle finger corre- sponds to the intended point of percussion Place the pleximeter finger horizontally on the left below the down angle of the scapula (7 <sup>th</sup> intercostal space), press tightly to the skin Place II and IV fingers apart, they do not touch the pleximeter finger Perform percussion using the loud percussion method As a hammer, use the middle finger of the right hand bent in the proximal and distal interphalangeal joints so that its terminal phalanx is perpendicular to the surface of the distal phalanx of the middle finger of the left hand Tap on the center of this phalanx, the movement of tapping should come from the right wrist Short taps, equal strength, two at each point of percussion The interphalangeal joints of the middle finger, elbow and shoulder joints of the right hand remain motionless After the second tap, the hammer finger should not remain pressed against the pleximeter finger	

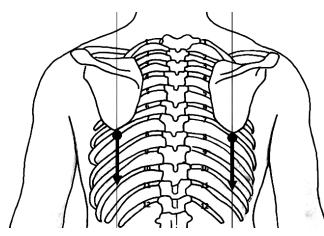
100	$\mathbf{D}_{\mathbf{r}} = \mathbf{f}_{\mathbf{r}} = $			
	Perform percussion using the loud percussion method			
107				
	the proximal and distal interphalangeal joints so that its terminal			
	phalanx is perpendicular to the surface of the distal phalanx of			
100	the middle finger of the left hand			
108	Tap on the center of this phalanx, the movement of tapping should			
	come from the right wrist			
109	Short taps, equal strength, two at each point of percussion			
110	The interphalangeal joints of the middle finger, elbow and shoulder			
	joints of the right hand remain motionless			
111	After the second tap, the hammer finger should not remain pressed			
	against the pleximeter finger			
112	Compare the percussion sound, make the conclusion (if the percus-			
	sion sound is the same on the right and left or not)			
	Comparative percussion in the 8 <sup>th</sup> intercostal space			
113	Place the palm of the left hand on the surface of the patient's body			
	so that the middle of the distal phalanx of the middle finger corre-			
	sponds to the intended point of percussion			
114	Place the pleximeter finger horizontally on the left in the 8 <sup>th</sup> inter-			
	costal space, press tightly to the skin			
	Place II and IV fingers apart, they do not touch the pleximeter finger			
116	Perform percussion using the loud percussion method			
117	As a hammer, use the middle finger of the right hand bent in			
	the proximal and distal interphalangeal joints so that its terminal			
	phalanx is perpendicular to the surface of the distal phalanx of			
	the middle finger of the left hand			
118	Tap on the center of this phalanx, the movement of tapping should			
	come from the right wrist			
119	Short taps, equal strength, two at each point of percussion			
120	The interphalangeal joints of the middle finger, elbow and shoulder			
	joints of the right hand remain motionless			
121	After the second tap, the hammer finger should not remain pressed			
	against the pleximeter finger			
122	Place the pleximeter finger horizontally on the right in the 8th			
	intercostal space, press tightly to the skin			
123	Place II and IV fingers apart, they do not touch the pleximeter finger			
124	Perform percussion using the loud percussion method			
125	As a hammer, use the middle finger of the right hand bent in			
	the proximal and distal interphalangeal joints so that its terminal			
	phalanx is perpendicular to the surface of the distal phalanx of			
	the middle finger of the left hand			
126	Tap on the center of this phalanx, the movement of tapping should			
	come from the right wrist			
127	Short taps, equal strength, two at each point of percussion			
128	The interphalangeal joints of the middle finger, elbow and shoulder			
	joints of the right hand remain motionless			

129	After the second tap, the hammer finger should not remain pressed against the pleximeter finger				
130	Compare the percussion sound, make the conclusion (if the percus-				
	sion sound is the same on the right and left or not)				
	Completion of the procedure				
131	Make a conclusion about the results of the percussion: on compara-				
	tive percussion of the lungs, a clear pulmonary sound is heard (tym-				
	panic, hyperresonant, dullness, fatness (absolute dullness).				
132	32 Over symmetrical sections of the lungs the percussion sound is				
	the same / not the same				
133	Thank the patient				
134	Ask the patient to get dressed				
135	Perform hand hygiene				
	al points nimum 95 points) Mark				

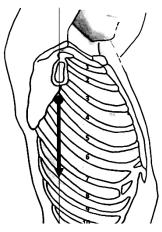
#### Assessment the inferior border of lungs (scorecards 9.1 and 9.2)



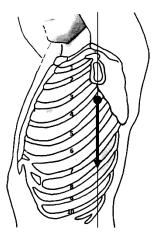
*Fig. 33.* Percussion on right mid-clavicular line. Arrow indicates the direction of percussion



*Fig. 35.* Percussion on scapular lines. Arrows indicate the direction of percussion



*Fig. 34.* Percussion on right mid-axillary line. Arrow indicates the direction of percussion



*Fig. 36.* Percussion on left mid-axillary line. Arrow indicates the direction of percussion

#### 9.1. ASSESSMENT THE INFERIOR BORDER OF RIGHT LUNG

## PRACTICAL SKILL SCORECARD

Surname, Name Group Date			
Nº	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$	
Preparatory stage			
1	Greet the patient		
2	Introduce yourself to the patient		
3	Ask the patient's full name		

4	Ask the patient's age			
5	Ask about the patient's condition at the beginning of the examination			
6	Tell the patient the name of the examination method "Assessment			
Ũ	the inferior border of right lung"			
7	Get the patient's informed consent for the examination			
8	Ask the patient to take off his clothing from his chest			
9	Ask the patient to take a vertical position facing the source of daylight			
10	Ask the patient to put his arms down			
11	Ask the patient to relax the shoulder muscles			
12	Ask the patient to breathe calmly and evenly			
13	Ask the patient about any pain in the chest			
14	Perform hand hygiene			
	Main stage			
	Percussion on right mid-clavicular line			
15	Stand to the right opposite the right half of the patient's chest, facing			
	the patient			
16	Ask the patient to turn his head to the left			
17	The palm of the left hand is placed on the surface of the patient's			
	body so that the middle of the middle phalanx of the pleximeter			
	finger corresponds to the intended point of percussion			
18	Press the pleximeter finger tightly on the skin along the right mid-			
	clavicular line in the 2 <sup>nd</sup> intercostal space			
19	Place II and IV fingers apart, they do not touch the pleximeter finger			
20	Perform percussion using the quiet percussion method			
21	As a hammer, use the middle finger of the right hand bent in			
	the proximal and distal interphalangeal joints so that its end phalanx			
	is located perpendicular to the surface of the middle phalanx of			
22	the pleximeter finger of the left hand Tap on the center of this phalanx, the movement of tapping should			
LL	come from the right wrist			
23	Short taps, equal strength, two at each point of percussion			
23	The interphalangeal joints of the middle finger, elbow and shoulder			
24	joints of the right hand remain motionless			
25	After the second tap, the hammer finger should not remain pressed			
20	against the pleximeter finger			
26	Continue percussion down using the quiet percussion method			
27	Slide the pleximeter finger down by the width of the pleximeter finger			
28	Stop the percussion when the dull sound appears			
29	Apply a mark with a dermograph without removing your pleximeter			
	finger			
30	The mark should be applied from the side of a clear pulmonary sound			
31	Mark the found border (normally the $6^{th}$ rib)			
	Percussion on right mid-axillary line			
32	Ask the patient to place both hands on the back of the head			
33	Stand at the right part of the patient's chest			

34	Ask the patient to turn his head to the left	
35	The palm of the left hand is placed on the surface of the patient's	
	body so that the middle of the middle phalanx of the pleximeter	
	finger corresponds to the intended point of percussion	
36	Press the pleximeter finger tightly on the skin along the right mid-	
	axillary line in the 4 <sup>nd</sup> intercostal space	
37	Place II and IV fingers apart, they do not touch the pleximeter finger	
38	Perform percussion using the quiet percussion method in the right	
	axillary region from the 4 <sup>th</sup> intercostal space along the mid-axillary	
	line	
39	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	
40	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
41	Short taps, equal strength, two at each point of percussion	
42	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
43	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
44	Continue percussion down using the quiet percussion method	
45	Slide the pleximeter finger down by the width of the pleximeter finger	
46	Stop the percussion when the dull sound appears	
47	Apply a mark with a dermograph without removing your pleximeter	
40	finger	
48	The mark should be applied from the side of a clear pulmonary sound	
49	Mark the found border (normally the 8 <sup>th</sup> rib)	
51	Percussion on right scapular line	
51	Ask the patient to turn his back to the examiner (back to the light)	
52	Ask the patient to put his arms down	
53	The palm of the left hand is placed on the surface of the patient's	
	body so that the middle of the middle phalanx of the pleximeter	
51	finger corresponds to the intended point of percussion	
54	Press the pleximeter finger horizontally tightly on the skin along	
	the right scapular line below the lower angle of the scapula (at the lower of the $7^{\text{th}}$ rib)	
55	the level of the 7 <sup>th</sup> rib)	
55	Place II and IV fingers apart, they do not touch the pleximeter finger	
56	Perform percussion using the quiet percussion method along the right	
57	scapular line below the lower angle of the scapula	
57	As a hammer, use the middle finger of the right hand bent in the provinged and distal interphalangeal joints so that its and phalany	
	the proximal and distal interphalangeal joints so that its end phalanx is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	

58	Tap on the center of this phalanx, the movement of tapping should				
	come from the right wrist				
59	Short taps, equal strength, two at each point of percussion				
60	The interphalangeal joints of the middle finger, elbow and shoulder				
	joints of the right han	d remain motionless			
61	After the second tap,	the hammer finger should not remain pressed			
	against the pleximeter	finger			
62	Continue percussion of	lown using the quiet percussion method			
63	Slide the pleximeter fi	nger down by the width of the pleximeter finger			
64	Stop the percussion w	hen the dull sound appears			
65	Apply a mark with a dermograph without removing your pleximeter				
	finger				
66	The mark should be a	pplied from the side of a clear pulmonary sound			
67	Mark the found border (normally the 10 <sup>th</sup> rib)				
		Completion of the procedure			
68	Make a conclusion:	present the inferior borders of the lungs along			
	the examined lines				
69	Thank the patient				
70	Ask the patient to get dressed				
71	Perform hand hygiene				
Tot	al points	Mark			
(mi	nimum 76 points)	IVIAIK			

## 9.2. ASSESSMENT THE INFERIOR LUNG BORDER OF LEFT LUNG

# PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Assessment	
	the inferior border of left lung"	
7	Get the patient's informed consent for the examination	

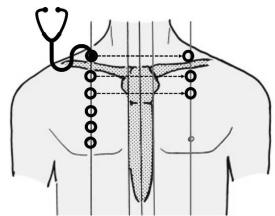
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of daylight	
10	Ask the patient to put his arms down	
11	Ask the patient to relax the shoulder muscles	
12	Ask the patient to breathe calmly and evenly	
13	Ask the patient about any pain in the chest	
14	Perform hand hygiene	
	Main stage	
	Percussion on the left mid-axillary line	
15	Ask the patient to place both hands on the back of the head	
16	Stand at the left part of the patient's chest	
17	Ask the patient to turn his head to the left	
18	The palm of the left hand is placed on the surface of the patient's	
	body so that the middle of the middle phalanx of the pleximeter	
	finger corresponds to the intended point of percussion	
19	Press the pleximeter finger tightly on the skin along the left mid-	
	axillary line in the 4 <sup>nd</sup> intercostal space	
20	Place II and IV fingers apart, they do not touch the pleximeter finger	
21	Perform percussion using the quiet percussion method in the left axil-	
	lary region from the 4 <sup>th</sup> intercostal space along the mid-axillary line	
22	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	
23	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
24	Short taps, equal strength, two at each point of percussion	
25	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
26	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
27	Continue percussion down using the quiet percussion method	
28	Slide the pleximeter finger down by the width of the pleximeter finger	
29	Stop the percussion when the dull sound appears	
30	Apply a mark with a dermograph without removing your pleximeter	
	finger	
31	The mark should be applied from the side of a clear pulmonary sound	
32	Mark the found border (normally the 8 <sup>th</sup> rib)	
	Percussion on the left scapular line	
33	Ask the patient to turn back to the researcher	
34	Press the pleximeter finger horizontally tightly on the skin along	
	the left scapular line below the lower angle of the scapula (at	
	the level of the 7 <sup>th</sup> rib)	
35	Place II and IV fingers apart, they do not touch the pleximeter finger	

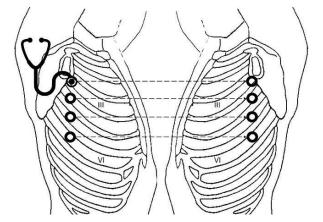
26	Perform percussion using the quiet percussion method along the left		
36			
	scapular line below the lower angle of the scapula		
37	As a hammer, use the middle finger of the right hand bent in		
	the proximal and distal interphalangeal joints so that its end phalanx		
	is located perpendicular to the surface of the middle phalanx of		
	the pleximeter finger of the left hand		
38	Tap on the center of this phalanx, the movement of tapping should		
	come from the right wrist		
39	Short taps, equal strength, two at each point of percussion		
40	The interphalangeal joints of the middle finger, elbow and shoulder		
	joints of the right hand remain motionless		
41	After the second tap, the hammer finger should not remain pressed		
	against the pleximeter finger		
42	Continue percussion down using the quiet percussion method		
43	Slide the pleximeter finger down by the width of the pleximeter finger		
44	Stop the percussion when the dull sound appears		
45			
	finger		
46	The mark should be applied from the side of a clear pulmonary sound		
47	Mark the found border (normally 10 rib)		
	Completion of the procedure		
48	Make a conclusion: present the inferior borders of the lungs along		
	the examined lines		
49	Thank the patient		
50	Ask the patient to get dressed		
51	Perform hand hygiene		
Tota	al points		
	nimum 36 points) Mark		
<u> </u>			

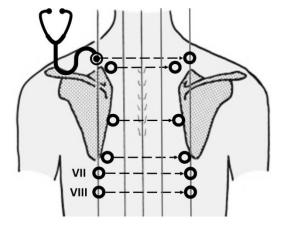
### **10. AUSCULTATION OF THE LUNGS**



*Fig. 37.* Correct position of the fingers on the head of stethoscope







*Fig. 38.* Auscultation points on anterior chest suface (points 20–47)

*Fig. 39.* Auscultation points on lateral chest suface (points 51–74)

Fig. 40. Auscultation points on posterior chest surface (points 77–112)

# PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
	1	done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Auscultation of	
	the lungs"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of daylight	
10	Ask the patient to put his arms down	
11	Ask the patient to breathe through the nose calmly and evenly	
12	Perform hand hygiene	
13	Clean the diaphragm of the stethoscope with an antiseptic solution	
14	Insert the ear tips of the stethoscope into the ears	
15	Make sure that the device is switched to the stethoscope diaphragm	
	Main stage	
	Auscultation of anterior surface of the chest	
16	Stand to the right opposite the right half of the patient's chest, facing	
	the patient	
17	Ask the patient to turn head to the left	
18	Place the head of the stethoscope between the Ist and IInd fingers of	
	the hand	
19	Place the head of the stethoscope on the <b>right</b> supraclavicular fossa	
	along the right mid-clavicular line	
20	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
21	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
22	Place the head of the stethoscope on the left supraclavicular fossa	
	along the left mid-clavicular line	
23	The head of the stethoscope is firmly pressed against the skin,	
24	the researcher's fingers do not touch the patient's skin	
24	Listen to the patient's complete breathing cycle (inhalation and	
25	exhalation)	
25	Place the head of the stethoscope on the <b>right</b> subclavicular fossa	
	along the right mid-clavicular line	

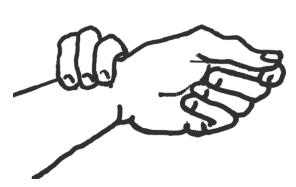
r		
26		
	the researcher's fingers do not touch the patient's skin	
27	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
28	Place the head of the stethoscope on the left subclavicular fossa	
	along the left mid-clavicular line	
29	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
30	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
31	Place the head of the stethoscope on the <b>right</b> 2 <sup>nd</sup> intercostal space	
	along the right mid-clavicular line	
32	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
33	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
34	I I	
	along the left mid-clavicular line	
35	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
36		
27	exhalation)	
37	Place the head of the stethoscope on the <b>right</b> 3 <sup>rd</sup> intercostal space	
20	along the right mid-clavicular line	
39	The head of the stethoscope is firmly pressed against the skin,	
40	the researcher's fingers do not touch the patient's skin	
40	Listen to the patient's complete breathing cycle (inhalation and	
41	exhalation)	
41	Place the head of the stethoscope on the <b>right</b> 4 <sup>th</sup> intercostal space along the right mid-clavicular line	
42	The head of the stethoscope is firmly pressed against the skin,	
42	the researcher's fingers do not touch the patient's skin	
43	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
44	Place the head of the stethoscope on the <b>right</b> 5 <sup>th</sup> intercostal space	
<b>T</b> - <b>T</b>	along the right mid-clavicular line	
45	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
46	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
	Auscultation of lateral surfaces of the chest	
48	Ask the patient to place both hands on the back of the head	
49	Stand opposite of the patient's chest, facing the patient	
50	Ask the patient to turn head to the left	
·		

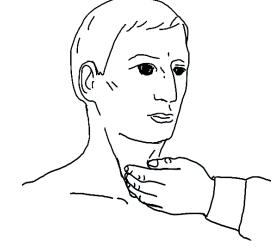
51	Place the head of the stethoscope on the <b>right</b> 3 <sup>rd</sup> intercostal space	
<i></i>	along the right mid-axillary line	
52	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
53	Listen to the patient's complete breathing cycle (inhalation and exha-	
	lation)	
54	Place the head of the stethoscope on the left 3 <sup>rd</sup> intercostal space	
	along the left mid-axillary line	
55	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
56	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
57	Place the head of the stethoscope on the <b>right</b> 4 <sup>th</sup> intercostal space	
	along the right mid-axillary line	
58	The head of the stethoscope is firmly pressed against the skin,	
50	the researcher's fingers do not touch the patient's skin	
59	Listen to the patient's complete breathing cycle (inhalation and	
60	exhalation)	
60	Place the head of the stethoscope on the <b>left</b> 4 <sup>th</sup> intercostal space	
61	along the left mid-axillary line	
61	The head of the stethoscope is firmly pressed against the skin, the researcher's fingers do not touch the patient's skin	
62	Listen to the patient's complete breathing cycle (inhalation and	
02	exhalation)	
63	Place the head of the stethoscope on the <b>right</b> 5 <sup>th</sup> intercostal space	
05	along the right mid-axillary line	
64	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
65	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
66	Place the head of the stethoscope on the left 5 <sup>th</sup> intercostal space	
	along the left mid-axillary line	
67	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
68	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
69	Place the head of the stethoscope on the <b>right</b> $6^{th}$ intercostal space	
	along the right mid-axillary line	
70	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	
71	Listen to the patient's complete breathing cycle (inhalation and	
	exhalation)	
72	Place the head of the stethoscope on the <b>left</b> $6^{th}$ intercostal space	
70	along the left mid-axillary line	
73	The head of the stethoscope is firmly pressed against the skin,	
	the researcher's fingers do not touch the patient's skin	

74	Liston to the nationt's complete breathing evels (inhelation and		
/4	Listen to the patient's complete breathing cycle (inhalation and exhalation)		
75	Auscultation of posterior surfaces of the chest         75       Ask the patient to turn back to the reseacher		
76	Ask the patient to cross their arms over their chest ("hug" them-		
70	selves)		
77	Place the head of the stethoscope on the <b>left</b> supraspinatus fossa on		
	the left scapular line		
78	The head of the stethoscope is firmly pressed against the skin,		
	the researcher's fingers do not touch the patient's skin		
79	Listen to the patient's complete breathing cycle (inhalation and		
	exhalation)		
80	Place the head of the stethoscope on the <b>right</b> supraspinatus fossa on		
	the right scapular line		
81	The head of the stethoscope is firmly pressed against the skin,		
	the researcher's fingers do not touch the patient's skin		
82	Listen to the patient's complete breathing cycle (inhalation and		
	exhalation)		
83	Place the head of the stethoscope on the <b>left</b> at the level of the medial		
0.4	edge of upper scapula angle		
84	The head of the stethoscope is firmly pressed against the skin,		
85	the researcher's fingers do not touch the patient's skin Listen to the patient's complete breathing cycle (inhalation and		
05	exhalation)		
86			
00	the medial edge of upper scapula angle		
87	The head of the stethoscope is firmly pressed against the skin,		
	the researcher's fingers do not touch the patient's skin		
88	Listen to the patient's complete breathing cycle (inhalation and		
	exhalation)		
89	Place the head of the stethoscope on the <b>left</b> at the level of the middle		
	part of the scapula medial edge		
90	The head of the stethoscope is firmly pressed against the skin,		
	the researcher's fingers do not touch the patient's skin		
91	Listen to the patient's complete breathing cycle (inhalation and		
	exhalation)		
92	Place the head of the stethoscope on the <b>right</b> at the level of		
02	the middle part of the scapula medial edge		
93	The head of the stethoscope is firmly pressed against the skin,		
94	the researcher's fingers do not touch the patient's skin Listen to the patient's complete breathing cycle (inhalation and		
74	exhalation)		
95	Place the head of the stethoscope on the <b>left</b> at the level of the medial		
,,,	edge of inferior scapula angle		
96	The head of the stethoscope is firmly pressed against the skin,		
	the researcher's fingers do not touch the patient's skin		
	68		

97	<sup>7</sup> Listen to the patient's complete b exhalation)	preathing cycle (inhalation and		
98	Place the head of the stethoscope on the <b>right</b> at the level of the medial edge of inferior scapula angle			
99				
100				
101	1 Place the head of the stethoscope on intercostal space	the <b>left</b> scapular line in the 7 <sup>th</sup>		
102	2 The head of the stethoscope is fin the researcher's fingers do not touch	• •		
103	3 Listen to the patient's complete b exhalation)	reathing cycle (inhalation and		
104	4 Place the head of the stethoscope on intercostal space	the <b>right</b> scapular line in the 7 <sup>th</sup>		
105	5 The head of the stethoscope is fin the researcher's fingers do not touch			
106	Listen to the patient's complete breathing cycle (inhalation and exhalation)			
107	Place the head of the stethoscope on the <b>left</b> scapular line in the 8 <sup>th</sup> intercostal space			
108	The head of the stethoscope is firmly pressed against the skin, the researcher's fingers do not touch the patient's skin			
109				
110	Place the head of the stethoscope on the <b>right</b> scapular line in the 8 <sup>th</sup> intercostal space			
111	1 The head of the stethoscope is fin the researcher's fingers do not touch			
112	2 Listen to the patient's complete b exhalation)	reathing cycle (inhalation and		
	Completion of	of the procedure		
113		-		
	auscultation of the lungs over symm	-		
114	is heard (weakened, harsh, bronchial)			
114				
	5 Thank the patient			
116	1 U			
117 Tet				
	otal points ninimum 82 points) Mark			

### 11. ASSESSMENT THE PULSE ON THE RADIAL, CAROTID ARTERIES AND DORSALIS PEDIS ARTERIES





*Fig. 41.* Pulse palpation on radial artery (points 14–28)

*Fig. 42.* Pulse palpation on carotid artery (points 32–41)



Fig. 43. Pulse palpation on a. dorsalis pedis (points 44-47)

#### PRACTICAL SKILL SCORECARD

N⁰	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \end{array}$
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	

6	Tell the patient the name of the examination method "Assessment	
Ŭ	the pulse on the radial, carotid arteries and dorsalis pedis arteries"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to relax the shoulder muscles	
10	Ask the patient to breathe calmly and evenly	
11	Perform hand hygiene (gloves are needed to dorsalis pedis arteries	
	palpation)	
	Main stage	
	Assessment the pulse on the radial arteries	
12	Ask the patient to place his forearms and hands on the table with	
	palms up	
13	Ask the patient to relax hands	
14	With the fingers of both hands, cover both patient's forearms close to	
	the wrist joint (the thumb is located on the back surface of the wrist	
	joint, II–IV fingers above the radial artery)	
15	Define the pulse on both hands (take the patient's right hand with	
	your left hand, and the left hand with your right hand)	
16	Define the symmetry of both radial arteries pulsation by volume	
17	Make the conclusion: pulse is symmetrical / not symmetrical (pulse	
	volume is the same / not the same on both hands)	
18	Further the pulse is determined only on one hand	
19	Compare the uniformity of intervals between pulse waves (pulse	
	rhythm)	
20	Make the conclusion: pulse is regular / irregular	
21	Define the pulse <b>rate</b> using a stopwatch or a watch with a second	
	hand	
22	If the pulse irregular, the count is performed within 15 seconds and	
	the result is multiplied by 4. If the pulse is irregular, the count is	
- 22	performed within 1 minute	
23	Press III–IV fingers proximally on the radial artery and hold until	
24	the pulsation disappears	
24	With the II finger palpate the radial artery fixing the moment of its	
	disappearance and determining the degree of required pressure with	
25	III–IV fingers (pulse <b>tension</b> )	
25	Make the conclusion: pulse is symmetrical / not symmetrical (pulse volume is the same / not the same on both hands)	
26	Pulse is regular / irregular	
20	Heart rate per minute (normally 60–90 beats per minute)	
28	Pulse tension (moderate / hard / soft)	
20	Assessment the pulse on the carotid arteries	
29	Examine the neck area, assess the <b>visible pulsation</b>	
30	Make a conclusion: carotid artery pulsation is visible / not visible	
31		
	Check the pulse alternately on each side without applying strong	

32	Ask the patient to turn his head to the right to palpate the left carotid artery	
33	Tips of II–IV fingers of right hand are placed at the inner edge of	
00	the sternocleidomastoid muscle on the left side at the level of	
	the upper edge of the thyroid cartilage	
34	Slightly push the inner edge of the sternocleidomastoid muscle	
51	outward and apply light pressure to define the pulsating carotid artery	
35	To palpate the right carotid artery, ask the patient to turn his head to	
55	the left	
36	Tips of II–IV fingers of right hand are placed at the inner edge of	
	the sternocleidomastoid muscle on the right at the level of the upper	
	edge of the thyroid cartilage	
37	Slightly push the inner edge of the sternocleidomastoid muscle	
	outward and use light pressure to define the pulsating carotid artery	
38	Compare pulse waves in <b>volume and rhythm</b>	
39	Make the conclusion: the pulse on the right and left carotid arteries is	
	palpable / not palpable	
40	The pulse on the right and left carotid arteries is symmetrical / not	
	symmetrical	
41	Carotid artery pulse is regular / irregular	
	Assessment the pulse on the dorsalis pedis artery	
42	Put on the gloves	
43	Ask the patient to take off his shoes and socks	
44	Conduct examination simultaneously from both sides	
45	Tips of II-IV fingers should be placed on the back of the foot	
	between the I and II metatarsal bones, parallel to them	
46	Compare volume of pulse waves on the feet with each other	
47	Make the conclusion (normally, the pulse wave is the same on both	
	sides)	
	Completion of the procedure	
48	Make the conclusion about the results of palpation: the pulse on	
	the radial artery is symmetrical / not symmetrical; moderate / hard /	
	soft tension; regular / irregular, pulse rate is per minute	
49	The pulse on the carotid arteries is symmetrical / not symmetrical	
50	The pulse on the dorsalis pedis artery is symmetrical / not symmet-	
	rical	
51		
52	Ask the patient to get dressed	
53	Remove the gloves	
54	Perform hand hygiene	
	tal points Mark	
(mi	inimum 38 points)	

Full name of the teacher \_\_\_\_\_\_ Sign

Signature	
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#### **12. PALPATION OF THE APICAL IMPULSE**

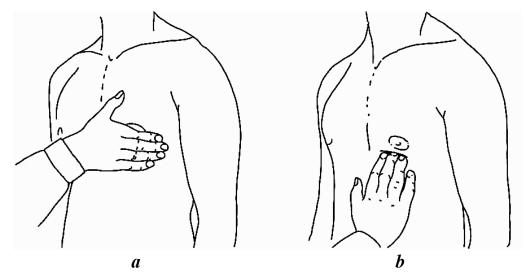


Fig. 44. Palpation of the apical impulse: *a* — points 18–20; *b* — points 24–25

#### PRACTICAL SKILL SCORECARD

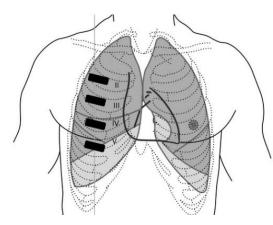
Surname, Name \_\_\_\_\_ Group \_\_\_\_ Date \_\_\_\_\_

1 - done№ Compliance criteria 0 - notdone **Preparatory stage** Greet the patient 1 Introduce yourself to the patient 2 3 Ask the patient's full name Ask the patient's age 4 Ask about the patient's condition at the beginning of the examination 5 Tell the patient the name of the examination method "Palpation of 6 the apical impulse" 7 Get the patient's informed consent for the examination 8 Ask the patient to take off his clothing from his chest 9 Ask the patient to take a vertical position facing the source of daylight Ask the patient to put his arms down 10 Ask the patient to relax the shoulder muscles 11 Ask the patient to breathe calmly and evenly 12 Ask the patient if he feels pain in the chest 13 Perform hand hygiene (gloves are optional) 14 Main stage 15 Stand in front of the right half of the patient's chest, facing him 16 Ask the patient to turn his head to the left 17 Examine the patient's chest for visible pulsation in the apical impulse

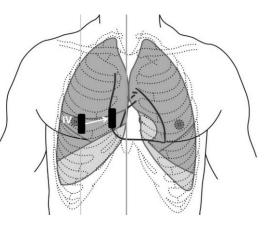
	Palpation of the apical impulse		
18		he upper half of the chest slightly forward	
19	Ask the patient to hold b		
20	Put the palm of the righ the patient's chest so that	t hand with closed and straight fingers flat on at the base of the hand is lying at the left edge	
		nb is positioned vertically on the sternum, and	
	•	ed to the left axillary area, between the 4 and	
01	7 ribs		
21	•	that the distal phalanges are perpendicular to	
22	the chest surface	nt II IV finance along the interpretations in	
22	-	nt II–IV fingers along the intercostal space in	
	tion if pressed with mod	he point where the fingers begin to feel pulsa-	
23	*	mains fixed on the sternum*	
23	<b>I</b>	turn the closed tips of the II–IV fingers and	
24	1	y along the pulsating area of the intercostal	
	space	along the pulsating area of the intercostar	
25	Palpate the apical impulse for 5–10 seconds		
26	Allow the patient to brea		
_	Completion of the procedure		
27		e apical impulse is visible / not visible	
28	Localization of the apica	al impulse (normally, the heart apex is located	
	in the 5 <sup>th</sup> intercostal spa	ace 1–1.5 cm inside of the left midclavicular	
	line)		
29	Define the width of the	apical impulse (normally 2 cm)	
30	Define the apical impuls	se resistance (normally moderate)	
31	Thank the patient		
32		ressed	
33	Perform hand hygiene		
	Total points     Mark       (minimum 23 points)     Mark		

\* If the size of the researcher's hand and the patient's chest do not match, it is allowed to shift the base of the palm so that the tips of the II–IV fingers reach the left anterior axillary line.

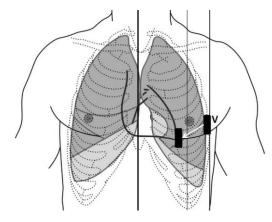
#### **13. ASSESSMENT OF THE RELATIVE HEART DULLNESS BORDERS**

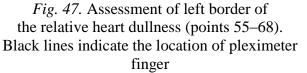


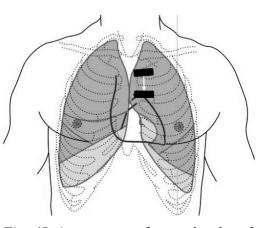
*Fig. 45.* Assessment of inferior border of right lung (points 22–36). Black lines indicate the location of pleximeter finger



*Fig. 46.* Assessment of right border of the relative heart dullness (points 37–52). Black lines indicate the location of pleximeter finger







*Fig. 48.* Assessment of upper border of the relative heart dullness (points 72–86). Black lines indicate the location of pleximeter finger

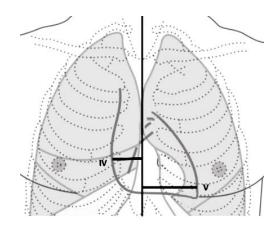


Fig. 49. Assessment of width of the relative heart dullness (points 87-88)

# PRACTICAL SKILL SCORECARD

		1 — done	
№	Compliance criteria	0 - not	
		done	
	Preparatory stage		
1	Greet the patient		
2	Introduce yourself to the patient		
3	Ask the patient's full name		
4	Ask the patient's age		
5	Ask about the patient's condition at the beginning of the examination		
6	Tell the patient the name of the examination method "Assessment of		
	the relative heart dullness borders"		
7	Get the patient's informed consent for the examination		
8	Ask the patient to take off his clothing from his chest		
9	Ask the patient to take a vertical position facing the source of		
	daylight, and put his arms down		
10	Perform hand hygiene		
11	Stand near the patient, facing him		
	Main stage		
	Palpation of apical impulse		
12	Ask the patient to lean the upper half of the chest slightly forward		
13	Ask the patient to hold breath during expiration		
14	Put the palm of the right hand with closed straight fingers flat on		
	the patient's chest so that the base of the hand is lying at the left edge		
	of the sternum, the thumb is positioned vertically on the sternum, and		
	the II–IV fingers are directed to the left axillary area, between the 4		
	and 7 ribs		
15	Bend the II–IV fingers so that the distal phalanges are perpendicular		
1.5	to the surface of the chest		
16	Move the tips of the bent II–IV fingers along the intercostal space in		
	the medial direction to the point where the fingers begin to feel pulsa-		
17	tion if pressed with moderate force		
17	The base of the palm remains fixed on the sternum*		
18	If pulsation is detected, turn the closed tips of the II–IV fingers and		
	place them horizontally along the pulsating area of the intercostal		
10	space Perform polynetics of the anigol impulse for 5, 10 seconds		
19	Perform palpation of the apical impulse for 5–10 seconds		
20	Allow the patient to breathe freely		
21	Make the conclusion about the localization of the apical impulse		
22	Assessment of right border of the relative heart dullness**		
22	The palm of the left hand is placed horizontally on the 2 <sup>nd</sup> right inter-		
	costal space		

00		
23	Put the left hand middle part of the middle finger phalanx on the right	
	midclavicular line	
24	Press the finger-pleximeter tightly on the skin	
25	Place II and IV fingers apart, they do not touch the pleximeter finger	
26	Perform percussion using the quiet percussion method down from	
	the 2 <sup>nd</sup> intercostal space along the right midclavicucar line	
27	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	
28	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
29	Short taps, equal strength, two at each point of percussion	
30	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
31	After the second tap, the hammer finger should not remain pressed	
	against the pleximeter finger	
32	Slide the finger-pleximeter down by the width of the finger-pleximeter	
33	Stop performing percussion when the dull sound appears	
34	Put a mark with a dermograph without removing the finger-pleximeter	
35	The mark should be put from the side of a clear pulmonary sound	
36	Make the conclusion about the discovered borders (normally in 5 <sup>th</sup>	
07	intercostal space)	
37	Move the finger-pleximeter upwards for one intercostal space (from 5 <sup>th</sup> , 4 <sup>th</sup> )	
20	5 <sup>th</sup> to 4 <sup>th</sup> )	
38	Place the finger-pleximeter vertically	
39	The middle phalanges of the finger-pleximeter correspond to the 4 <sup>th</sup>	
10	intercostal space on the right midclavicular line	
40	Press the finger-pleximeter tightly on the skin	
41	Place II and IV fingers apart, they do not touch the pleximeter finger	
42	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
42	the pleximeter finger of the left hand	
43	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
44	Short taps, equal strength, two at each point of percussion	
45	The interphalangeal joints of the middle finger, elbow and shoulder	
10	joints of the right hand remain motionless	
46	After the second tap the hammer finger should not remain pressed	
47	against the finger-pleximeter	
47	Slide the finger-pleximeter by the its width	
48	Perform percussion from the right midclavicular line to the sternum	
49	Perform percussion using the quiet percussion method	
50	Stop percussion when the dull sound appears	

51	Det de marte mide e de marte maite de construction de chier en altreiter ten	
51	Put the mark with a dermograph without removing the finger-pleximeter	
52	The mark should be put from the side of the clear pulmonary sound	
53	Measure the distance between the found border and the anterior mid-	
	line with a centimeter tape	
54	Make the conclusion about the result (normally the right border of	
	the heart dullness is located 3-4 cm to the right of the anterior	
	midline in the fourth intercostal space)	
	Assessment of left border of the relative heart dullness	
55		
56	The middle phalanges of the finger-pleximeter correspond to	
	the heart apex (5 <sup>th</sup> intercostal space)	
57	Press the finger-pleximeter tightly on the skin	
58	Place II and IV fingers apart, they do not touch the pleximeter finger	
59	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	
60	Tap on the center of this phalanx, the movement of tapping should	
	come from the right wrist	
61	Short taps, equal strength, two at each point of percussion	
62	The interphalangeal joints of the middle finger, elbow and shoulder	
	joints of the right hand remain motionless	
63	After the second tap the hammer finger should not remain pressed	
<u> </u>	against the finger-pleximeter	
64	Slide the finger-pleximeter by the width of the finger-pleximeter	
65	Perform percussion from the left anterior axillary line to the sternum	
66	Perform percussion using the quiet percussion method	
67	Stop making percussion when the dull sound appears	
68	Put a mark without removing the finger-pleximeter with a dermograph	
69	The mark should be put from the side of the clear pulmonary sound	
70	Measure the distance between the found border and the anterior mid-	
	line with a centimeter tape	
71	Make the conclusion about the results (normally the left border of	
	the heart dullness is located in the fifth intercostal space 8–9 cm to	
	the left from the anterior midline)	
	Assessment of upper border of the relative heart dullness	
72	Place the finger-pleximeter horizontally so that the middle phalanx of	
	the middle finger is 1 cm outward from the left edge of the sternum in	
70	the first intercostal space	
73	Press the finger-pleximeter tightly to the skin	
74	Place II and IV fingers apart, they do not touch the pleximeter finger	
75	As a hammer, use the middle finger of the right hand bent in	
	the proximal and distal interphalangeal joints so that its end phalanx	
	is located perpendicular to the surface of the middle phalanx of	
	the pleximeter finger of the left hand	

76	Tan on the contar of	this phalanx, the movement of tapping should	
70	come from the right w		
77		gth, two at each point of percussion	
78		bints of the middle finger, elbow and shoulder	
/0	joints of the right hand		
79		the hammer finger should not remain pressed	
19	against the finger-plex	6	
80	*	neter down by its width	
81	Perform percussion fro		
82	*	ing the quiet percussion method	
83			
84	Stop percussion when	**	
84	pleximeter	a dermograph without removing the finger-	
85	1	t from the side of the clear nulmonary sound	
86	*	it from the side of the clear pulmonary sound	
80		about the results (normally the upper border	
	the third rib)	dullness is located along the upper edge of	
	,	ant of width of the relative heart dullness	
07		ent of width of the relative heart dullness h of the relative heart dullness, add the distance	
07		space on the right to the anterior midline	
		and the distance in the $5^{\text{th}}$ intercostal space on	
	•	midline (normally 8–9 cm)	
88		about the results (normally the width of	
00	the relative heart dulln	•	
	the relative heart dumin	Completion of the procedure	
89	Make the conclusion.	the borders of the relative heart dullness are	
	normal / not normal	are solucity of the foldere heart duffless are	
90	Thank the patient		
	Ask the patient to get of	tressed	
	Perform hand hygiene		
	al points		
	(minimum 64 points) Mark		

\* If the size of the researcher's hand and the patient's chest do not match, it is allowed to shift the base of the palm so that the tips of 2–4 fingers reach the left anterior axillary line. \*\* When the heart is located on the right, first it is necessary to determine the left border, then the right and upper borders of heart dullness.

## **14. AUSCULTATION OF THE HEART**



Fig. 50. Correct position of the fingers on the head of stethoscope

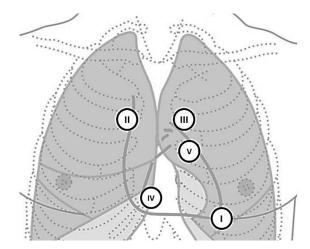


Fig. 51. Points of heart auscultation

### PRACTICAL SKILL SCORECARD

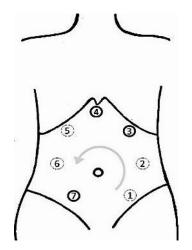
		1 — done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Auscultation of	
	the heart"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest	
9	Ask the patient to take a vertical position facing the source of	
	daylight	
10	Ask the patient to put his arms down	
11	Ask the patient to relax his shoulder muscles	
12	Ask the patient to breathe calmly and evenly	
13	Perform hand hygiene	
14	Clean the head of the stethoscope with an antiseptic solution	
Main stage		
15	Stand to the right opposite the right half of the patient's chest, facing	
	the patient	
16	Ask the patient to turn the head to the left	

	Palpation of apical impulse		
17	Ask the patient to slightly bend the upper half of the chest forward		
18	Ask the patient to hold breath during expiration		
19	Put the palm of the right hand with closed and straight fingers flat on		
	the patient's chest so that the base of the hand lies at the left edge of		
	the sternum, the thumb is positioned vertically on the sternum, and		
	II–V fingers are directed towards the left axillary area, between the 4		
	and 7 ribs		
20	Bend II-IV fingers so that the distal phalanges are perpendicular to		
	the surface of the chest		
21	Move the tips of the bent II-IV fingers along the intercostal space in		
	the medial direction to the point where the fingers begin to feel		
	pulsation if pressed with moderate force		
22	The base of the palm remains fixed on the sternum*		
23	If pulsation is detected, turn the closed tips of II–IV fingers and place		
	them horizontally along the pulsating area of the intercostal space		
24	Perform palpation of the apical impulse for 5–10 seconds		
25	Tell the patient to breathe calmly and evenly		
26	Mark localization of the apical impulse with a dermograph		
27	Take the head of the stethoscope between the Ist and II fingers		
28	Insert the ear tips of the stethoscope into the ears		
29	Make sure that the device is switched to the stethoscope bell		
	1 <sup>st</sup> point of auscultation (mitral valve)		
30	Place the stethoscope head at the point of the apical impulse		
31	The head of the stethoscope is firmly pressed to the skin; the re-		
	searcher's fingers should not touch the patient's skin		
32	For palpation of the right carotid artery the patient continues to turn		
	his head to the left		
33	Set the tips of II-IV fingers at the inner edge of the sternocleidomas-		
	toid muscle on the right at the level of the upper edge of the thyroid		
	cartilage	<u> </u>	
34	Slightly push the inner edge of the sternocleidomastoid muscle out-		
25	ward and with slight pressure determine the pulsating carotid artery		
35	Compare the pulse waves, following one another, on the carotid		
26	artery in relation to heart sounds		
36	Make the conclusion (normally 1 <sup>st</sup> heart sound coincides with		
07	the pulse on the carotid artery)		
37	Listen to the heart sounds for 10–15 seconds	L	
20	2 <sup>nt</sup> point of auscultation (aortic valve)		
38	Place the head of the stethoscope in the $2^{nd}$ intercostal space at the right edge of the sternum		
20	the right edge of the sternum		
39	Continue palpation of the carotid pulse with the left hand**		
40	The head of the stethoscope is firmly pressed to the skin;		
11	the researcher's fingers should not touch the patient's skin		
41	Listen to the heart sounds for 10–15 seconds	I Contraction of the second	

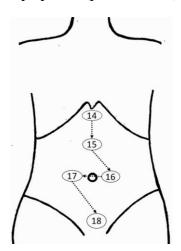
	3 <sup>rd</sup> point of auscultation (valve of pulmonary artery)		
42			
	the left edge of the sternum		
43	The head of the stethoscope is firmly pressed on the skin;		
	the researcher's fingers should not touch the patient's skin		
44	Listen to the heart sounds for 10–15 seconds		
	4 <sup>th</sup> point of auscultation (tricuspid valve)		
45	Place the head of the stethoscope at the base of the xiphoid process		
	on the right along the edge of the sternum		
46	The head of the stethoscope is firmly pressed on the skin;		
	the researcher's fingers should not touch the patient's skin		
47	Listen to the heart sounds for 10–15 seconds		
	5 <sup>th</sup> point of auscultation		
	additional point for aortic valve auscultation — Botkin–Erb point)		
48	Place the head of the in the 3 <sup>rd</sup> intercostal space at the left edge of		
	the sternum		
49	The head of the stethoscope is firmly pressed on the skin;		
	the researcher's fingers should not touch the patient's skin		
50	Listen to the heart sounds for 10–15 seconds		
	Completion of the procedure		
51	Make a conclusion about the results of the heart auscultation		
52	The rhythm of the heartbeats is regular / irrregular (normally, the rhythm is regular)		
53	The ratio of heart sounds corresponds / does not correspond to		
	the norm (normally, the 1 <sup>st</sup> sound is louder in the 1 <sup>st</sup> and 4 <sup>th</sup> points of		
	auscultation, the 2 <sup>nd</sup> sound is louder in the 2 <sup>nd</sup> and 3 <sup>rd</sup> points)		
54	Intracardiac murmurs are heard / not heard		
55	Thank the patient		
56	Ask the patient to get dressed		
57	<i></i>		
58			
	Total points Mark		
(mi	nimum 41 points)		

\* If the sizes of the researcher's hand and the patient's thoracic membrane do not match, the base of the palm may be displaced so that the tips of II–IV fingers reach the left anterior axillary line.

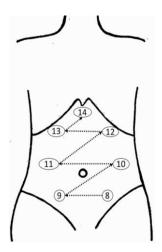
\*\* Palpation of the carotid artery is required for auscultation of the 1<sup>st</sup> and 2<sup>nd</sup> points.



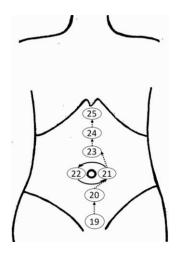
*Fig. 52.* Superficial indicative palpation of abdomen. Numbers indicate the sequence of palpation (points 20–45)



*Fig. 54.* Superficial comparative palpation of abdomen. Numbers indicate the sequence of palpation (points 70–83)



*Fig. 53.* Superficial comparative palpation of abdomen. Numbers indicate the sequence of palpation (points 46–69)



*Fig. 55.* Palpation of Linea Alba and umbilical area. Numbers indicate the sequence of palpation (points 84–91)

#### PRACTICAL SKILL SCORECARD

Surname, Name Group Date		
Nº	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
Preparatory stage		
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	

6	Tell the patient the name of the examination method "Superficial	
	palpation of the abdomen"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	
10	Position the patient's head on a low headboard	
11	Ask the patient to extend his arms along the body	
12	Ask the patient to relax his abdominal muscles	
13	Ask the patient to breathe calmly and evenly	
14	Ask if the patient feels pain (tenderness) in the abdomen	
15	Ask the patient to inform you if he feels any pain on examination	
16	Perform hand hygiene (gloves are optional)	
17	Sit to the right of the patient facing him	
18	The doctor's chair should be at the level of the couch	
19	Look at the patient's face during palpation and check his reaction to	
	the appearance of pain on palpation	
	Main stage	
	Superficial indicative palpation of abdomen	
20	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's left iliac region so that the base of the hand is	
	directed towards the front midline and the tips of the fingers are	
	pointing laterally*	
21	Palpation should be performed only with the hand, while the elbow	
	and shoulder joints should remain relatively motionless	
22	Move the right palm counterclockwise to the <b>left flank</b>	
23	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm deep)	
24	Using the tips of II-V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3–4 cm	
25	Move the right palm counterclockwise up to the <b>left hypochondrium</b>	
26	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
27	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3–4 cm	
28	Ask if the patient feels pain (tenderness) on palpation	
29	Move the right palm counterclockwise to the <b>epigastric area</b>	
30	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
31	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3–4 cm	
32	Move the right palm counterclockwise to the <b>right hypochondrium</b>	
33	The base of the palm is directed towards the anterior midline, the tips	
	of the fingers are pointing laterally	

34	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (to a depth of no more than $2-3$ c)	
35	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3–4 cm	
36	Ask if the patient feels pain (tenderness) on palpation	
37	Move the right palm counterclockwise to the right flank	
38	The base of the palm is directed towards the anterior midline, the tips	
	of the fingers are pointing laterally	
39	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
40	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3-4 cm	
41	Move the right palm counterclockwise to the <b>right iliac region</b>	
42	The base of the palm is directed towards the anterior midline, the tips	
10	of the fingers are pointing laterally	
43	Palpate the muscles of the abdominal wall and subcutaneous fat	
4.4	slightly pressing on the skin (no more than 2–3 cm in depth)	
44	Using the tips of II–V fingers, gently perform sliding movements on	
15	the skin of abdomen to a distance of 3–4 cm	
45	Ask if the patient feels pain (tenderness) on palpation	
10	Superficial comparative palpation of abdomen	
46	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's <b>left iliac region</b> so that the base of the hand is	
	pointing downward (caudally) and the tips of the fingers are pointing upward (cranially)	
47	Only the hand is involved in palpation; the elbow and shoulder joints	
47	remain relatively motionless	
48	Palpate the muscles of the abdominal wall and subcutaneous fat	
10	slightly pressing on the skin (no more than 2–3 cm in depth)	
49	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of $3-4$ cm	
50	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's <b>right iliac region</b> so that the base of the hand is	
	pointing downward (caudally) and the tips of the fingers are pointing	
	upward (cranially)	
51	Only the hand is involved in palpation; the elbow and shoulder joints	
	remain relatively motionless	
52	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
53	Using the tips of II-V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3-4 cm	
54	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's left flank so that the base of the hand is pointed	
	downward (caudally) and the tips of the fingers are pointing upward	
	(cranially)	

55	Only the hand is involved in palpation; the elbow and shoulder joints	
	remain relatively motionless	
56	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
57	Using the tips of II–V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3–4 cm	
58	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's <b>right flank</b> so that the base of the hand is pointed	
	downward (caudally) and the tips of the fingers are pointed upward	
	(cranially)	
59	Only the hand is involved in palpation; the elbow and shoulder joints	
01	remain relatively motionless	
60	Palpate the muscles of the abdominal wall and subcutaneous fat	
00	slightly pressing on the skin (no more than 2–3 cm in depth)	
61	Using the tips of II–V fingers, gently perform sliding movements on	
01	the skin of abdomen to a distance of $3-4$ cm	
62	Place the palm of the right hand with closed and slightly bent fingers	
02	flat on the patient's <b>left hypochondrium</b> so that the hand is pointing	
	downward (caudally) and the tips of the fingers are pointing upward	
	(cranially)	
63	Only the hand is involved in palpation; while the elbow and shoulder	
05	•	
64	joints remain relatively motionless	
64	Palpate the muscles of the abdominal wall and subcutaneous fat	
65	slightly pressing on the skin (no more than 2–3 cm in depth)	
65	Using the tips of II–V fingers, gently perform sliding movements on the skin of ab doments of distance of 2.4 cm	
((	the skin of abdomen to a distance of 3–4 cm	
66	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's <b>right hypochondrium</b> so that the base of	
	the hand is pointing downward (caudally) and the tips of the fingers	
(7	are pointing upward (cranially)	
67	Only the hand is involved in palpation, while the elbow and shoulder	
(0	joints remain relatively motionless	
68	Palpate the muscles of the abdominal wall and subcutaneous fat	
<u> </u>	slightly pressing on the skin (no more than 2–3 cm in depth)	
69	Using the tips of II–V fingers, gently perform sliding movements on	
<b>7</b> 0	the skin of abdomen to a distance of 3–4 cm	
70	Place the palm of the right hand with closed and slightly bent fingers	
	flat on the patient's epigastric region along the anterior midline so	
	that the base of the hand is directed downward to the umbilicus and	
	the tips of the fingers are positioned under the xiphoid process	
71	Only the hand is involved in palpation; while the elbow and shoulder	
	joints remain relatively motionless	
72	Palpate the muscles of the abdominal wall and subcutaneous fat	
	slightly pressing on the skin (no more than 2–3 cm in depth)	
73	Using the tips of II-V fingers, gently perform sliding movements on	
	the skin of abdomen to a distance of 3-4 cm	

74	Ask if the patient feels	pain (tenderness) on palpation	
75	Move the right palm d	ownwards to the <b>umbilical region</b>	
76	Only the hand is invol	ved in palpation, while the elbow and shoulder	
	joints remain relatively	y motionless	
77	Palpate the muscles	of the abdominal wall and subcutaneous fat	
	slightly pressing on the	e skin (no more than 2–3 cm in depth)	
78	Using the tips of II–V	fingers, gently perform sliding movements on	
	the skin of abdomen to	a distance of 3–4 cm	
79	Ask if the patient feels	s pain (tenderness) on palpation	
80	Move the right palm d	ownwards to the <b>suprapubic region</b>	
81	Palpate the muscles	of the abdominal wall and subcutaneous fat	
	slightly pressing on the	e skin (no more than 2–3 cm in depth)	
82		fingers, gently perform sliding movements on	
	the skin of abdomen to		
83	Ask if the patient feels	s pain (tenderness) on palpation	
		tion of Linea Alba and umbilical area	
84		ent fingers of the right hand along the front	
		bis (the tips of the II-V fingers are placed on	
		of the palm is directed to the anterio-superior	
	spine of the patient's r		
85	2	e his head (bringing the chin to the sternum)	
86		the in and hold his/her breath on inspiration	
87	—	abdomen from the pubis to the umbilical area	
	with the tips of II–V fi		
88	•	area with tips of II–V fingers	
89	-	om the umbilical area to xiphoid process with	
	tips of II–V fingers		
90		er his head and breathe freely	
91	Ask if the patient feels	pain (tenderness) on palpation	
		Completion of the procedure	
92		about the results of superficial palpation	
		nen is soft, painless, there is no swelling of	
	· · · · · · · · · · · · · · · · · · ·	on of the anterior abdominal wall is absent,	
	<b>A</b>	d diastasis of the rectus abdominis are absent)	
93	Thank the patient		
94	Ask the patient to get		
95	Perform hand hygiene		
	al points	Mark	
(mi	(minimum 67 points)		

Full name of the teacher	Signature	

\* If there is pain in the left abdomen, palpation is started from the right iliac region.

# **16. PALPATION OF THE SIGMOID COLON**

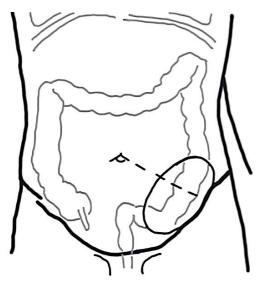


Fig. 56. Location of sigmoid colon

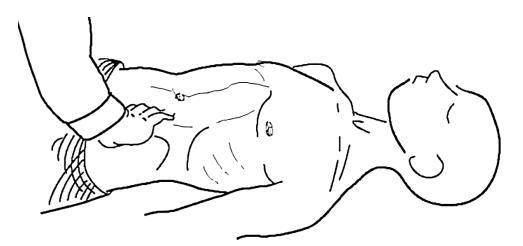


Fig. 57. Palpation of sigmoid colon (points 19–31)

# PRACTICAL SKILL SCORECARD

		1 - done
N⁰	Compliance criteria	0 — not
	1	
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the sigmoid colon"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	
10	Position the patient's head on a low headboard	
11	Ask the patient to extend his arms along the body	
12	Ask the patient to extend his legs	
13	Ask the patient to relax his abdominal muscles	
14	Ask if the patient feels pain/tenderness in the abdomen	
15	Ask the patient to breathe through the mouth evenly, using the dia-	
	phragmatic type of breathing, without straining the abdominal wall	
16	Perform hand hygiene (gloves are optional)	
17	Sit to the right of the patient facing him	
18	The doctor's chair should be at the level of the couch	
	Main stage	
19	The tips of the II–V bent and closed fingers of the right hand are at	
	the same level	
20	The tips of the II–V fingers lie on the border between the middle and	
	outer third of the line connecting the navel and the anterior-superior	
	spine of the left iliac bone	
21	The tips of the II–V fingers lie parallel to the length of the sigmoid	
	colon	
22	The base of the right hand is directed towards the antero-superior	
	spine of the left iliac bone, and the fingertips are in the projection of	
	the sigmoid colon	
23	Palpation is performed by the hand and forearm	
24	On the patient's inspiration move the right hand with a superficial	
	movement (without immersion) 3-4 cm towards the navel and form	
	a skin fold	

25	<b>1</b>	alation slowly immerse the fingers of the right		
	hand into the abdomir	5		
26	1	is position until the end of the patient's next		
	inhalation			
27		n slowly immerse the fingers of the right hand		
20	into the abdominal car			
28		is position until the end of the patient's next		
20	inhalation			
29		on slowly immerse the fingers of the right hand		
	into the abdominal car			
30		tient's third exhalation, with the fingertips of		
		erpendicularly to the length of the sigmoid colon		
		the navel to the antero-superior spine of the left		
		rs roll through the sigmoid colon)		
31	Ask if the patient feel	s pain (tenderness) on palpation		
	Completion of the procedure			
32		bout the results of the palpation: the sigmoid		
	colon is palpable / not			
33	-	y located on the border of the outer and middle		
	third of the line connecting the navel and the antero-superior spine of			
2.1	the left iliac bone)	1 - 1		
34	Shape (normally cylin			
35	Size (normally 2–3 cm			
36	Surface (smooth / nod	,		
37	Rumbling (present / a			
38	Mobility (normally sh			
39	Consistency (soft / de			
40	Pain (painful / not pai	nful)		
41				
42				
43	Perform hand hygiene			
	Total points Mark			
(mi	(minimum 31 points)			

# **17. PALPATION OF THE CECUM**

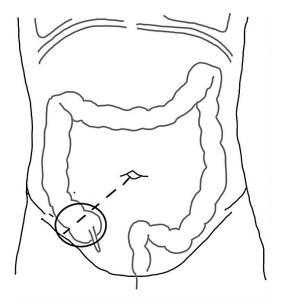


Fig. 58. Location of cecum

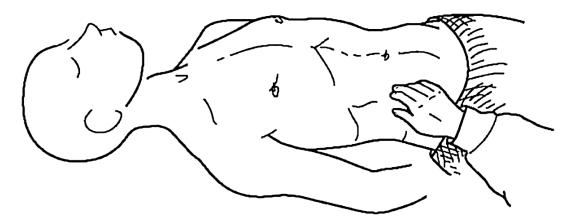


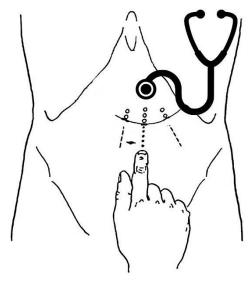
Fig. 59. Palpation of cecum (points 19-31)

# PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
	I I I I I I I I I I I I I I I I I I I	done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the cecum"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	
10	Position the patient's head on a low headboard	
11	Ask the patient to extend his arms along the body	
12	Ask the patient to extend his legs	
13	Ask the patient to relax his abdominal muscles	
14	Ask if the patient feels pain / tenderness in the abdomen	
15	Ask the patient to breathe through the mouth evenly, using the dia-	
	phragmatic type of breathing, without straining the abdominal wall	
16	Perform hand hygiene	
17	Sit to the right of the patient facing him	
18	The doctor's chair should be at the level of the couch	
	Main stage	
19	The tips of the II-V bent and closed fingers of the right hand are at	
	the same level	
20	The tips of the II–V fingers lie on the border between the middle and	
	outer third of the line connecting the navel and the antero-superior	
	spine of the right iliac bone	
21	The tips of the II–V fingers lie parallel to the length of the cecum	
22	The base of the right hand is directed towards the antero-superior	
	spine of the right iliac bone, and the fingertips are in the projection of	
	the cecum	
23	Palpation is performed by the hand and forearm	
24	On the patient's inspiration move the right hand with a superficial	
	movement (without immersion) 3–4 cm towards the navel and form	
	a skin fold	
25	On the patient's exhalation slowly immerse the fingers of the right	
	hand into the abdominal cavity	

26	1 1	e patient's next	
	inhalation		
27	5	f the right hand	
20	into the abdominal cavity a little deeper		
28	8 Keep the hand in this position until the end of th inhalation	e patient's next	
29	5 6	f the right hand	
20	into the abdominal cavity deeper		
30	1	<b>U</b>	
	the right hand slide perpendicularly to the length of		
	the direction from the navel to the antero-superior sp	oine of the right	
	iliac bone (II–V fingers roll through the cecum)		
31			
	Completion of the procedure		
32	1 1	: the cecum is	
	palpable / not palpable		
33			
	the outer and middle third of the line connecting	the navel and	
	the antero-superior spine of the right iliac bone)		
34	4 Shape (normally cylindrical)		
35	5 Size (normally 2–3 cm in diameter)		
36	6 Surface (smooth / nodular)		
37	7 Rumbling (present / absent)		
38	8 Mobility (normally shifted by 3–5 cm)		
39	9 Consistency (soft / dense)		
40			
41	Thank the patient		
42	Ask the patient to get dressed		
43	3 Perform hand hygiene		
Tot	otal points Mark		
(minimum 31 points)			

### **18. PALPATION OF THE TRANSVERSE COLON**



*Fig. 60.* Determination of inferior border of the stomach by auscultatory affriction method ("rustle" method) (points 19–30)



Fig. 61. Palpation of transverse colon (points 31-44)

## PRACTICAL SKILL SCORECARD

Surname, Name Group Date				
Nº	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$		
Preparatory stage				
1	Greet the patient			
2	Introduce yourself to the patient			
3	Ask the patient's full name			
4	Ask the patient's age			
5	Ask about the patient's condition at the beginning of the examination			
	94			

6	Tell the patient the name of the examination method "Palpation of		
0	the transverse colon"		
7	Get the patient's informed consent for the examination		
8	Ask the patient to take off his clothing from his abdomen (to		
0	the upper border of the symphysis pubic)		
9	Ask the patient to take a horizontal position on his back on the couch		
10	Position the patient's head on a low headboard		
10	Ask the patient to extend his arms along the body		
12	Ask the patient to extend his legs		
13	Ask the patient to relax his abdominal muscles		
13	Ask if the patient feels pain/tenderness in the abdomen		
15	Ask the patient to breathe through the mouth evenly, using the dia-		
10	phragmatic type of breathing, without straining the abdominal wall		
16	Perform hand hygiene (gloves are optional)		
17	Sit to the right of the patient facing him		
18	The doctor's chair should be at the level of the couch		
	Main stage		
D	etermination of inferior border of the stomach by auscultatory affrictio	n method	
	("rustle" method)		
19	Clean the diaphragm of the stethoscope with an antiseptic solution		
20	Insert the ear tips of the stethoscope <sup>,</sup> into the ears		
21	Make sure that the device is switched to the stethoscope diaphragm		
22	Take the head of the stethoscope between the I and II fingers of		
	the left hand		
23	Position the head of the stethoscope on the surface of the body		
	according to the expected auscultation point — under the xiphoid		
	process on the left		
24	Firmly press the head of the stethoscope to the skin, without touching		
	the patient's skin with fingers		
25	With a finger of the right hand, perform dashed movements on		
	the skin radially from the head of the stethoscope towards the antero-		
0.5	superior spine of the left iliac bone		
26	When the "rustling" sounds disappear, make a mark on the skin		
27	With a finger of the right hand, perform dashed movements radially		
	from the xiphoid process in the direction of the navel (along the front		
20	midline)		
28	When the "rustling" sounds disappear, make a mark on the skin		
29	With a finger of the right hand, perform dashed movements radially from the vinhoid process in the direction of the anteroposterior spine		
	from the xiphoid process in the direction of the anteroposterior spine of the right ilium		
30	When the "rustling" sounds disappear, make a mark on the skin		
Palpation of the transverse colon			
31	The tips of the II–V bent and closed fingers of the both hands are at		
51	the same level		

32	The tips of the II_V fi	ngers lie 2–3 cm below the inferior border of		
32	the stomach	ligers lie 2–3 cm below the interior border of		
33				
55	colon	gois ne paramer to the rengal of the transverse		
34		t and left hands are placed on both sides of		
	-	ase of the palms is directed downward		
35		by the hand and forearm		
36		ation move both hands 3–4 cm upwards with		
	1 1	(without immersion) and form a skin fold		
37		tion slowly immerse the fingers of the hands		
	into the abdominal cavi			
38	Keep the hands in this	s position until the end of the patient's next		
	inhalation	-		
39	On the next exhalation	slowly immerse the fingers of both hands into		
	the abdominal cavity a			
40	*	is position until the end of the patient's next		
	inhalation			
41		slowly immerse the fingers of both hands into		
	the abdominal cavity de	*		
42		t's third exhalation, with the fingertips of both		
		to bottom perpendicularly to the length of		
		-V fingers roll through the transverse colon)		
43	(	pain (tenderness) on palpation		
44	Ask the patients about l	ocalization of pain (right / left), if any		
	Completion of the procedure			
45		ut the results of palpation:		
1.0	The transverse colon is			
46				
47	the stomach)	· 1)		
47	Shape (normally cylind			
48	Size (normally 2–3 cm			
49	Surface (smooth / nodu			
50	Rumbling (present / abs			
51	Mobility (normally shif			
52 53	Consistency (soft / dens			
55	Pain (painful / not paint	(ui)		
	Thank the patient	ragged		
55 56	Ask the patient to get d	102200		
	Perform hand hygiene	Mark		
(IIII)	(minimum 39 points)			

#### **19. ASSESSMENT OF THE LIVER SIZE ACCORDING** TO M. G. KURLOV'S METHOD

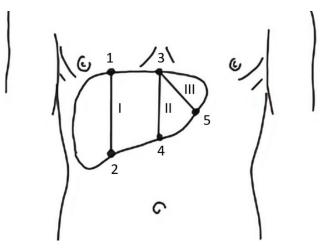


Fig. 62. The scheme for assessment the liver size according to M. G. Kurlov's method. Arabic numerals indicate the points of the liver size is measured, Roman numerals indicate the liver dimensions

#### PRACTICAL SKILL SCORECARD

N⁰	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Assessment of	
	the liver size according to M. G. Kurlov's method"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	
10	Position the patient's head on a low headboard	
11	Ask the patient to extend his arms along the body	
12	Ask the patient to extend his legs	
13	Ask the patient to breathe through the mouth evenly, using the dia-	
	phragmatic type of breathing, without straining the abdominal wall	
14	Perform hand hygiene	
15	Sit to the right of the patient facing him	
16	The doctor's chair should be at the level of the couch	

Main stage			
	Assessment of upper border on right mid-clavicular line		
17	Place the palm of the left hand on the right side of the patient's chest parallel to the ribs		
18	Place the pleximeter finger (III finger) on 2 <sup>nd</sup> intercostal space, its middle phalanx is on the right of the mid-clavicular line		
19	The pleximeter finger is tightly pressed to the skin		
20	II and IV fingers are apart, without touching the pleximeter finger		
21	Perform percussion downwards from the 2 <sup>nd</sup> intercostal space along		
	the right mid-clavicular line, using the quiet percussion method		
22	Use the III finger of the right hand as a hammer: bent it at		
	the proximal and distal interphalangeal joints so that its distal phalanx		
	is perpendicular to the surface of the middle phalanx of the III finger		
	of the left hand (pleximeter finger)		
23	Tap on the center of this phalanx with movements of the right wrist joint		
24	Short taps, equal strength, two at each point of percussion		
25	Interphalangeal joints of the middle finger, ulnar and shoulder joints		
20	of the right hand remain motionless		
26	After the second tap the hammer finger should not remain pressed to		
	the pleximeter finger		
27	Percuss downwards, using the method of quiet percussion		
28	Shift the pleximeter finger downward by the width of the pleximeter		
	finger		
29	Perform percussion until the pulmonary sound becomes dull		
30	Apply a mark with a dermograph without removing your pleximeter finger		
31	Make a mark from the side of the pulmonary sound		
	Assessment of inferior border on right mid-clavicular line		
32	Place the palm of the left hand on the right half of the patient's abdomen (fingers are pointing towards the midline, the base of the palm is directed laterally)		
33	The middle phalanx of the III finger of the left hand is placed on the line connecting the antero-superior spines of the iliac bones, perpendicularly to the continuation of the right mid-clavicular line		
34	The pleximeter finger is tightly pressed to the skin		
35	II and IV fingers are apart, without touching the pleximeter finger		
36	Perform percussion upwards along the right mid-clavicular line, using		
	the quietest percussion method		
37	Use the III finger of the right hand as a hammer: bend it at		
	the proximal and distal interphalangeal joints so that its distal phalanx		
	is perpendicular to the surface of the middle phalanx of the III finger		
	of the left hand (pleximeter finger)		
38	Tap on the center of this phalanx with movements of the right wrist		
	joint		

39	Short taps, equal strength, two at each point of percussion	
40	Interphalangeal joints of the middle finger, ulnar and shoulder joints	
	of the right hand remain motionless	
41	After the second tap the hammer finger should not remain pressed to	
	the pleximeter finger	
42	Shift the pleximeter finger upward by the width of the pleximeter finger	
43	Perform percussion until the tympanic sound becomes dull	
44	Apply a mark with a dermograph without removing your pleximeter	
15	finger Males a more from the side of the temporie sound	
45	Make a mark from the side of the tympanic sound	
16	Determination of the upper border on the anterior midline	
46	Draw a perpendicular line from the top point along the right mid-	
47	clavicular line to the anterior midline	
47	Apply a dermograph mark at the intersection of the perpendicular line and the enterior midline	
	and the anterior midline	
10	Assessment of inferior border on anterior midline	
48	Place the palm of the left hand in the middle of the patient's abdomen	
	(fingers are directed toward the left half of the abdomen, the base of the palm is directed toward the right half of the abdomen)	
49	the palm is directed toward the right half of the abdomen)	
49	The pleximeter finger is pressed firmly to the skin along the extension of the enterior midling at the level of the line connecting	
	of the anterior midline, at the level of the line connecting	
50	the anteroom-superior spines of the iliac bones	
51	II and IV fingers are apart, without touching the pleximeter finger	
51	Perform percussion up the front midline using the quietest percussion method	
52	Use the III finger of the right hand as a hammer: bend it at the proximal	
	and distal interphalangeal joints so that its distal phalanx is	
	perpendicular to the surface of the middle phalanx of the III finger of	
	the left hand (pleximeter finger)	
53	Tap on the center of this phalanx with movements of the right wrist	
	joint	
54	Short taps, equal strength, two at each point of percussion	
55	Interphalangeal joints of the middle finger, ulnar and shoulder joints	
	of the right hand remain motionless	
56	After the second tap the hammer finger should not remain pressed to	
	the pleximeter finger	
57	Shift the pleximeter finger upward by the width of the pleximeter finger	
58	Perform percussion until the tympanic sound becomes dull	
59	Apply a mark with a dermograph without removing your pleximeter	
	finger	
60	Make a mark from the side of the tympanic sound	
	Assessment of liver border on left costal arch	
61	Place the palm of the left hand perpendicularly to the left costal arch	
62	The middle phalanx of the pleximeter finger is placed 0.5 cm below	
	the intersection of the left costal arch and the left midclavicular line	

63	The pleximeter finger is tightly pressed to the sk	in	
64			
65			
66			
00	the proximal and distal interphalangeal joints so		
	is perpendicular to the surface of the middle ph		
	of the left hand (pleximeter finger)	and in the in inger	
67		ents of the right wrist	
07	joint		
68	5	ercussion	
69			
	of the right hand remain motionless		
70	After the second tap the hammer finger should	not remain pressed to	
	the pleximeter finger		
71		-	
72		vard by the width of	
	the pleximeter finger		
73		ound changes from	
	tympanic to dull		
74		oving your pleximeter	
	finger	-	
75			
76		÷	
	to M. G. Kurlov: the distance between the upper and lower points on		
77	the right mid-clavicular line		
77	· · · · · · · · · · · · · · · · · · ·	ag to M. C. Kurlovy	
78	Measure the second size of the liver according the distance between the upper and lower point		
	midline	its along the anterior	
79			
80		g to M G Kurlov	
	the distance from the point along the left costal a	-	
	of the second size along anterior midline	a chi to the upper point	
81			
Completion of the procedure			
82			
	according to M. G. Kurlov is normal/not normal.		
83			
84			
85			
Tot	otal points	Mork	
(minimum 60 points) Mark			

#### **20. PALPATION OF THE LIVER**

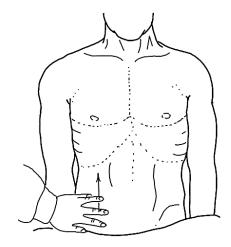


Fig. 63. Assessment of inferior liver border on right mid-clavicular line (points 19–32). Arrow indicates the direction of percussion

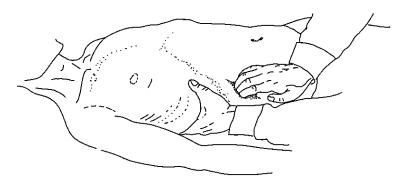


Fig. 64. Palpation of the liver (points 33–51)

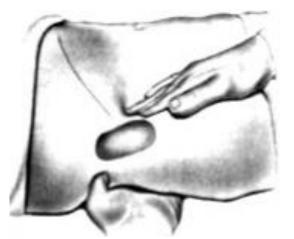
### PRACTICAL SKILL SCORECARD

		1 — done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the liver"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	

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36	Place the palm of the right hand on the patient's abdomen along		
	the continuation of the right mid-clavicular line outward from		
	the edge of the rectus	÷	
37	The palm base is directed downwards		
38	The line of the mid	dle finger of the right hand coincides with	
		e right mid-clavicular line	
39			
40	Ask the patient to bre	eathe through the mouth evenly, using the dia-	
		eathing, without straining the abdominal wall	
41	On the patient's inspi	ration move the fingers of the right hand with	
	a superficial movement	nt (without immersion) by 3-4 cm downwards	
	and form a skin fold		
42	*	lation slowly immerse the fingers of the right	
	hand into the abdomin	•	
43	-	is position until the end of the patient's next	
	inhalation		
44	· · ·	ze the right costal arch from the top and side	
	with the left palm		
45		tion slowly push the fingers of the right hand	
10	deeper		
46			
47	Simultaneously squeeze the right costal arch from the top and side with the left palm		
48	Ask the patient to take a deep breath with his abdomen		
40			
49	Simultaneously with the patient's inhalation unbend the nail phalan- ges of the right hand, straightening the fingers under the costal arch		
50	The forearm and hand remain motionless		
51			
51	Completion of the procedure		
52	Make a conclusion at	bout the results of palpation: the lower edge of	
	the liver is palpable / 1		
53		on palpation is painful / not painful	
54	Consistency is soft / d		
55	The surface is smooth		
56	The edge of the liver i	s rounded / sharp	
57		der the edge of the right costal arch (by	
	centimeters)/ It does	not protrude from under the edge of the right	
	costal arch		
58	Thank the patient		
59	Ask the patient to get		
60	0 Perform hand hygiene		
Total points Mark			
(mi	nimum 42 points)		

# 21. PALPATION OF THE KIDNEYS IN THE HORIZONTAL POSITION



*Fig.* 65. Palpation of right kidney in horizontal position (points 17–33)

### PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the kidneys in the horizontal position"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his back on the couch	
10	Position the patient's head on a low pillow	
11	Ask the patient to extend his legs	
12	Ask the patient to extend his arms along the body	
13	Ask the patient to breathe through the mouth evenly, using the dia-	
	phragmatic type of breathing, without straining the abdominal wall	
14	Perform hand hygiene	
15	Sit to the right of the patient facing him	
16	The doctor's chair should be at the same level with the couch	

Main stage				
Palpation of the right kidney				
17	Place the left hand under the patient's right half of the lumbar region,			
17	fingers pointing towards the spine			
18	The palmar surface of the left hand is facing up			
19	The index finger of the left hand is at the level of the XII rib on			
17	the right			
20	The tips of the II–V fingers of the right hand are at the same level and			
	lie $1-2$ cm below the right costal arch			
21	Place the palm of the right hand so that the V finger lies outside of			
	the lateral edge of the rectus abdominis muscle			
22	The base of the right palm is directed downwards (caudally)			
23	Palpation is performed with the hand and forearm			
24	As the patient exhales, gently and slowly immerse the fingers of			
	the right hand into the abdominal cavity			
25	Fix the hand in this position until the end of the patient's next			
	inhalation			
26	Simultaneously, with the left palm bring the lumbar region closer to			
	the fingers of the right hand			
27	On the second exhalation slowly immerse the fingers of the right			
	hand into the abdominal cavity deeper			
28	Simultaneously, with the left palm bring the lumbar region closer to			
	the fingers of the right hand			
29	Fix the hand in this position until the end of the patient's next			
	inhalation			
30	On the third exhalation gently and slowly immerse the fingers of			
01	the right hand into the abdominal cavity even deeper			
31	Simultaneously, with the left palm bring the lumbar region closer to			
22	the fingers of the right hand			
32	Ask the patient to make a deep abdominal breath			
33	Make a conclusion about the results of palpation of the right kidney:			
	the right kidney is palpable / not palpable			
34	Palpation of the left kidneyMove the left arm under the left half of the patient's lumbar region			
35				
36	The palmar surface of the left hand is facing up The index finger of the left hand is at the level of the XII rib on			
50	the left			
37	The left wrist joint is at the level of the spinous processes of			
57	the lumbar spine			
38	The tips of the II–V fingers of the right hand are at the same level and			
50	lie 1–2 cm below the left costal arch			
39	Place the palm of the right hand so that the index finger is located on			
57	the lateral edge of the rectus abdominis muscle on the left			
40	The base of the right palm is directed downwards (caudally)			
41	Palpation is performed with the hand and forearm			
11	r arparion is performed with the nand and forearm			

42	As the patient exhales, gently and slowly immerse the fingers of		
	the right hand into the abdominal cavity		
43	Fix the hand in this position until the end of the patient's next		
	inhalation		
44	Simultaneously, with the left palm bring the lumbar region closer to		
	the fingers of the right hand		
45	On the second exhalation slowly immerse the fingers of the right		
	hand into the abdominal cavity deeper		
46			
	the fingers of the right hand		
47	Fix the hand in this position until the end of the patient's next		
	inhalation		
48	On the third exhalation gently and slowly immerse the fingers of		
	the right hand into the abdominal cavity even deeper		
49	Simultaneously, with the left palm bring the lumbar region closer to		
	the fingers of the right hand		
50	Ask the patient to make a deep abdominal breath		
51	Make a conclusion about the results of palpation of the left kidney:		
	the left kidney is palpable / not palpable		
Completion of the procedure			
52	Make a conclusion about the results of palpation (normally kidneys		
	are not palpable)		
53	Thank the patient		
54	Ask the patient to get dressed		
55	5 Perform hand hygiene		
Tot	Total points Mark		
(mi	(minimum 39 points)		

Full name of the teacher	Signature
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## 22. PALPATION OF THE KIDNEYS IN THE VERTICAL POSITION

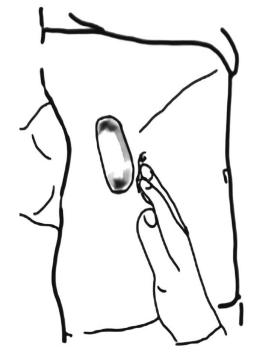


Fig. 66. Palpation of right kidney in vertical position (points 14–29)

#### PRACTICAL SKILL SCORECARD

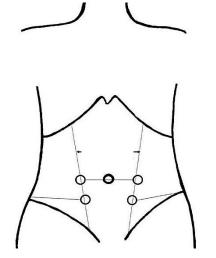
N⁰	Compliance criteria	$\begin{array}{c} 1 - \text{done} \\ 0 - \text{not} \\ \text{done} \end{array}$
	Preparatory stage	uone
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of to the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the kidneys in the vertical position"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his chest and abdomen	
	(to the upper border of the symphysis pubic)	
9	Ask the patient to take a vertical position	
10	Ask the patient to stretch his arms along the body	
11	Ask the patient to breathe through the mouth evenly, using	
	the diaphragmatic breathing, without straining the abdominal wall	
12	Perform hand hygiene	
13	Sit to the right of the patient, facing him	

	Main stage			
Palpation of right kidney				
14 Place the left hand on the right half of the patient's lumbar region,				
14	with fingers pointing towards the spine			
15	The index finger of the left hand is at the level of the 12 rib on			
15	the right			
16	The tips of the II–IV fingers of the right hand should be at the same			
10	level and lie 2 cm below the right costal arch			
17	Place the palm of the right hand so that the IV finger lies outside of			
	the lateral edge of the rectus abdominis muscle			
18	The base of the right palm is facing down			
19	The hand and forearm are involved in palpation			
20	As the patient exhales, gently and slowly immerse the fingers of			
	the right hand into the abdominal cavity			
21	Until the end of the patient's next inhalation, fix the hand in this			
	position			
22	At the same time, move the lumbar region with the left palm to			
	the fingers of the right hand			
23	During the second exhalation, slowly immerse the fingers of the right			
	hand deeper into the abdominal cavity			
24	At the same time, move the lumbar region to the fingers of the right			
25	hand with the left palm			
25	Fix the hand in this position until the end of the patient's next inhale			
26	During the third exhalation, gently and slowly immerse the fingers of the right hand even deeper into the addominal equity			
27	the right hand even deeper into the abdominal cavity At the same time, move the lumbar region with the left palm to			
21	the fingers of the right hand			
28	Ask the patient to take a deep abdominal breath			
29	Make a conclusion about the right kidney palpation results: palpable /			
2,	not palpable			
	Palpation of left kidney			
30	Place the left hand on the left half of the patient's lumbar region			
31	The index finger of the left hand is at the level of the 12 rib on the left			
32	The left wrist joint is at the level of the lumbar spine spinous			
	processes			
33	The tips of the II–IV fingers of the right hand should be at the same			
	level and lie 1–2 cm below the left costal arch			
34	Place the palm of the right hand so that the index finger lies on			
	the lateral edge of the rectus abdominis muscle on the left			
35	The base of the right palm is facing down			
36	The hand and forearm are involved in palpation			
37	As the patient exhales, gently and slowly immerse the fingers of			
	the right hand into the abdominal cavity			
38	Until the end of the patient's next inhalation fix the hand in this			
	position			

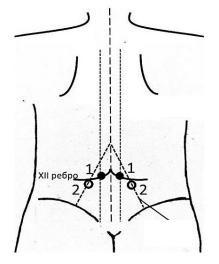
39	At the same time mov	e the lumbar region with the left palm to	
	the fingers of the right hand		
40	· · · ·	ation, slowly immerse the fingers of the right	
	hand deeper into the abd	• • •	
41	At the same time mov	e the lumbar region with the left palm to	
	the fingers of the right ha	and	
42	Fix the hand in this posit	tion until the end of the patient's next inhale	
43	During the third exhalat	ion gently and slowly immerse the fingers of	
	the right hand even deep	er into the abdominal cavity	
44	At the same time move the lumbar region with the left palm to		
	the fingers of the right hand		
45	5 Ask the patient to take a deep abdominal breath		
46	6 Make a conclusion about the results of the left kidney palpation:		
	palpable / not palpable		
	(	Completion of the procedure	
47	Make a conclusion abou	t the results of palpation (normal kidneys are	
	not palpable)		
48	3 Thank the patient		
49	Ask the patient to get dressed		
50	0 Perform hand hygiene		
Tot	al points	Mark	
(mi	nimum 42 points)		

Full name of the teacher	 Signature

#### 23. PALPATION OF THE URETERAL POINTS, ASSESSMENT OF THE KIDNEY TENDERNESS, AUSCULTATION OF THE RENAL ARTERIES



*Fig.* 67. Palpation of ureteral points on abdomen wall (points 14–19)



*Fig.* 68. Palpation of ureteral points on lumbar area (points 21–28)

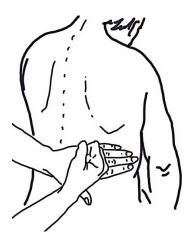
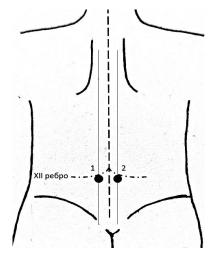
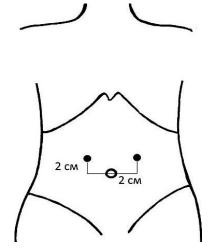


Fig. 69. Assessment of kidney tenderness (points 29–35)



*Fig. 70.* Auscultation of renal arteries on lumbar area (points 36–47)



*Fig. 71.* Auscultation of renal arteries an abdomen wall (points 49–61)

# PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
	I I I I I I I I I I I I I I I I I I I	done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the ureteral points, assessment of the kidney tenderness, auscultation	
	of the renal arteries"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic and the lumbar area)	
9	Ask the patient to take a vertical position	
10	Ask the patient to extend his arms along the body	
11	Ask the patient if feels pain in the abdomen or lumbar area	
12	Perform hand hygiene	
13	Sit to the right of the patient, facing him	
	Main stage	
	Palpation of the ureteral points	
14	With pulp of both thumbs palpate the ureteral points at the outer edge	
	of the rectus abdominis muscle at the level of the navel on both sides	
15	Palpation is carried out simultaneously from both sides	
16	Ask the patient if he feels pain	
17	With pulp of both thumbs palpate the ureteral points at the outer edge	
	of the rectus abdominis muscle at the level of the upper spine of	
	the iliac bones	
18	Palpation is carried out simultaneously from both sides	
19	Ask the patient if he feels pain	
20	Ask the patient to turn back to the examiner	
21	With pulp of both thumbs palpate the ureteral points at the intersec-	
	tion of the outer edge of the psoas muscle and the 12 rib	
22	Palpation is carried out simultaneously from both sides	
23	Ask the patient if he feels pain	
24	With pulp of both thumbs palpate the ureteral points in the costal-	
	vertebral angle (along the vertebral line under the 12 rib)	
25	Palpation is carried out simultaneously from both sides	
26	Ask the patient if he feels pain	

27	Make a conclusion about the results of palpation: pain in the area of	
21		
28	the ureteral points is present / absent Localization of pain, if any	
20	<i>Kidney tenderness assessment</i>	
29	Place the palm of the left hand horizontally on the patient's right	
2)	lumbar region: the base of the palm is directed towards the spine,	
	the fingers laterally, the upper edge of the palm is at the level of	
	the XII thoracic vertebra	
30	Tap moderately twice to the back side of the left hand with the inner	
20	side of the right hand closed into a fist	
31	Ask the patient if he feels pain	
32	Place the palm of the left hand horizontally on the patient's left	
	lumbar region: the upper edge of the palm is at the level of the XII	
	thoracic vertebra	
33	Tap moderately twice to the back side of the left hand with the inner	
	side of the right hand closed into a fist	
34	Ask the patient if he feels pain	
35	Make the conclusion about the assessment results: the symptom on	
	the right side is positive (pain) / negative; the symptom on the left	
	side is positive / negative	
	Auscultation of the renal arteries	
36	Clean the diaphragm of the stethoscope with an antiseptic solution	
37	Insert the ear tips of the stethoscope, into the ears	
38	Make sure that the device is switched to the stethoscope diaphragm	
39	Place the head of the stethoscope in the costal-vertebral angle on	
	the left side (along the vertebral line below the level of the 12 rib on	
	the left)	
40	The stethoscope membrane is tightly pressed to the skin	
41	Ask the patient to take a deep breath, exhale and hold breath	
42	Listen to the sounds for 10–15 seconds	
43	Allow the patient to breathe freely	
44	Place the head of the stethoscope in the costal-vertebral angle on	
	the right side (along the paravertebral line below the level of the XII	
15	rib on the right)	
45	The stethoscope membrane is tightly pressed to the skin	
46	Ask the patient to take a deep breath, exhale and hold his breath	
47	Listen to the sounds for 10–15 seconds	
48	Allow the patient to breathe freely	
49	Ask the patient to take a horizontal position: lying on his back, legs	
50	straightened Sit to the right of the national facing him	
50 51	Sit to the right of the patient, facing him Position the head of the stathoscope at the point located 2 cm to	
51	Position the head of the stethoscope at the point located 2 cm to the right of the navel and 2 cm up	
52	The stethoscope membrane is tightly pressed to the skin	
52	Ask the patient to take a deep breath, exhale and hold his breath	
55	Ask the patient to take a deep breath, exhate and nord his breath	

54	Listen to the sounds for 1	10–15 seconds	
55	Allow the patient to brea	the freely	
56	Position the head of the	stethoscope at a point located 2 cm to the left	
	of the navel and 2 cm up		
57	The stethoscope membra	ne is tightly pressed to the skin	
58	Ask the patient to take a	deep breath, exhale and hold his breath	
59	Listen to the sounds for 1	10–15 seconds	
60	Allow the patient to brea	the calmly and evenly	
61	Make a conclusion abou	t the results of auscultation: systolic murmur	
	in the projection of the re	enal arteries is heard / not heard	
Completion of the procedure			
62	Thank the patient		
63	Ask the patient to get dre	essed	
64	Perform hand hygiene		
65	Clean the head of the ste	thoscope with antiseptic solution	
Total pointsM(minimum 46 points)		Mark	

#### **24. PALPATION OF THE SPLEEN**

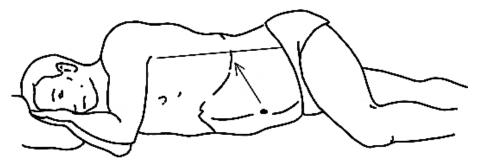


Fig. 72. Patient's position on right side. Anterior axillary line is indicated. Arrow indicates the direction of percussion (points 17–34)

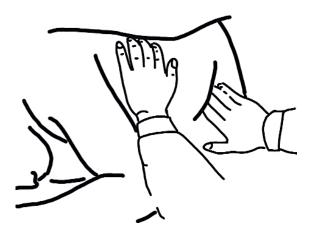


Fig. 73. Palpation of the spleen (points 35–53)

#### PRACTICAL SKILL SCORECARD

		1 - done
№	Compliance criteria	0 — not
		done
	Preparatory stage	
1	Greet the patient	
2	Introduce yourself to the patient	
3	Ask the patient's full name	
4	Ask the patient's age	
5	Ask about the patient's condition at the beginning of the examination	
6	Tell the patient the name of the examination method "Palpation of	
	the spleen"	
7	Get the patient's informed consent for the examination	
8	Ask the patient to take off his clothing from his abdomen (to	
	the upper border of the symphysis pubic)	
9	Ask the patient to take a horizontal position on his right side	
10	Ask the patient to straighten the right leg	

11	Ask the patient to bend his left knee and hip joints and draw it slightly		
	to the body		
12	Ask the patient to put both hands together and place them under		
	the right cheek		
13	Ask if the patient feels pain/tenderness in the abdomen		
14	Ask the patient to use abdomen breathing		
15	Perform hand hygiene		
16	Sit down facing the patient's abdomen		
	Main stage		
	Assessment of anterior point of the spleen		
17	Find the 10 <sup>th</sup> rib from the left side		
18	Find the point of intersection of the 10 <sup>th</sup> rib and the anterior axillary		
	line		
19	Put the mark with a dermograph on this point		
20	Place the left palm on the navel, the middle finger is parallel to		
	the left costal arch, the base of the palm is directed to the right costal		
	arch		
21	The finger-pleximeter (III finger) is located perpendicular to		
	the continuation of the line of 10 <sup>th</sup> rib		
22	The finger-pleximeter is tightly pressed to the skin		
23	The II and IV fingers are apart and don't touch the pleximeter finger		
24	Perform percussion using the quietest percussion method		
25	Use the III finger of the right hand as a hammer: bend it at		
	the proximal and distal interphalangeal joints so that its distal phalanx		
	is perpendicular to the surface of the middle phalanx of the left hand		
	III finger (pleximeter finger)		
26	Tap to the center of this phalanx by movements of the right wrist		
07	joint		
27	Short taps, equal strength, two at each point of percussion		
28	Interphalangeal joints of the middle finger, ulnar and shoulder joints		
20	of the right hand remain motionless		
29	After the second tap the hammer finger should not remain pressed to		
20	the pleximeter finger		
30	Perform percussion from the navel to the intersection of the anterior		
21	axillary line and the 10 <sup>th</sup> rib on the left		
31	Move the finger-pleximeter by its width		
32	Perform percussion until the percussion sound changes from		
22	tympanic to dull Put the mark with a dermograph without removing the playimator		
33	Put the mark with a dermograph without removing the pleximeter		
34	finger The mark should be put on the side of the tympanic percussion sound		
54			
35	Palpation of anterior edge of the spleen           25         Place the left hand on the lewer part of the patient's about on the left		
55	Place the left hand on the lower part of the patient's chest on the left costal arch (the place of attachment of the 7–10 ribs)		
36	The left fingertips should be facing axillary lines		
50	The fort might up should be facing axillary miles		

37	The tips of the II–V fingers of the right hand should be at the same		
20	level		
38	Place the tips of the II–V fingers of the right hand 1 cm below the edge of the left costel areh, if the spleep descript extend beyond		
	the edge of the left costal arch, if the spleen doesn't extend beyond the lower edge of the costal arch*		
39	The line of the right hand middle finger coincides with the line of		
39	the $10^{\text{th}}$ rib		
40	Place the palm of the right hand with slightly bent and closed fingers		
	on the patient's abdomen		
41	The base of the palm of the right hand is facing the navel		
42	The hand and forearm are involved in palpation		
43	Ask the patient to breathe through the mouth evenly using		
	diaphragmatic breathing (i. e. belly), but without straining		
	the abdominal wall		
44	During the patient's inhale, move the fingers of the right hand with		
	a superficial movement (without immersion) down to the navel by		
	3–4 cm and form a skin fold		
45	As the patient exhales, gently and slowly immerse the fingers of		
10	the right hand into his abdominal cavity		
46	Until the end of the patient's next inhale, fix the hand in this position		
47	Simultaneously squeeze the left costal arch with the left palm		
48	During the second exhale, slowly move the fingers of the right hand deeper		
49	Fix your hand in this position		
50	Simultaneously squeeze the left costal arch with the left palm		
51	During the third exhale, slowly move the fingers of the right hand		
	even deeper		
52	Ask the patient to take a deep abdominal breath		
53	Simultaneously with the patient's inhale move the right hand		
	forward, straightening the fingers in the bent phalanges		
	Completion of the procedure		
54	Make a conclusion about the results of the palpation: the spleen is		
	palpable / not palpable		
55	Thank the patient		
56	Ask the patient to get dressed		
57	Perform hand hygiene		
Total points Mark			
(mi	(minimum 40 points)		

\* If the anterior point of the spleen length, determined by percussion, extends beyond the edge of the left costal arch, then the fingertips of the right hand during palpation should be located at the discovered level.

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