Ministry of Health of the Republic of Belarus

Educational Establishment

«Vitebsk State Order of Peoples` Friendship Medical University»

Chair of Propedeutics of Internal Diseases

It predicated on meeting

of the chair from

Protocol № \_\_ "\_\_\_" \_\_\_\_\_\_\_\_\_20\_\_\_yr

**METHODOLOGICAL RECOMMENDATIONS FOR LEARNERS N7**

for practical training

on Propaedeutics of Internal Diseases

for specialty 7-07-0911-01 “General Medicine”

2nd year of medical faculty

full-time higher education

**Theme:** **Topographic percussion of the lungs**

**Time:** 3 hours

Compiled by: A.L. Dobrovolskaya, Assistant.

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**Motivational characteristics of the need to study the topic of the class**

Topographic percussion allows you to identify possible pathological changes in the lung tissue by determining the borders of the organ, which helps the doctor in making a diagnosis.

**Aims and objectives of the class**

*Teaching objectives:* to acquaint students with the rules and the methodology of topographic percussion of the lungs.

*Developmental objectives:* formation of attentiveness, watchfulness (in the process of practical training), independence (in preparation for practical training).

*Educational objectives:* study and observe the process of communicating with other students, medical professionals and patients, a sense of mutual assistance, subordination, responsibility, diligence, accuracy, conscientiousness, understanding the importance of the profession, and compliance with safety regulations.

In the process of studying the topic, the learner should

**study:**

the rules and technique of topographic lung percussion;

**learn to:**

perform topographic lung percussion and interpret the results;

**practice:**

the technique of topographic percussion of the lungs.

**Practical skills formed during the study of the topic:**

1. *Technique of determining the upper border of the lungs (the height of the lung apex anteriorly and posteriorly,*  *the width of Kroenig’s fields )*
2. *Technique of determining the lower border of the lungs.*

**Interdisciplinary and intradisciplinary links**

The study of the topic of the lesson is closely interconnected and is a preparation for the study of disciplines at the following chairs: Chair of Departmental Therapy and Cardiology, Chair of General Medical Practice, Chair of Phthisiopulmonology, Chair of Dermatovenerology and Cosmetology, Cahir of Neurology and Neurosurgery.

**Theoretical part**

In preparation for the lessons learners should pay attention to:

- “Methodological guidelines for the organization of independent work of learners”;

- information block of the lesson topic on the SIW (supervised independent work of learners) in the theoretical section of the course.

**Questions for classroom control of knowledge.**

1. Topographic percussion: goals and rules.
2. The technique of determining superior borders of lungs (the height of the lung apex anteriorly and posteriorly, the width of Kroenig’s fields). Diagnostic value.
3. Methods of determining the inferior border of lungs. Diagnostic value

**Practical part:** when preparing for the lesson, pay attention to the information block of the SIW and the attached literature, training videos presented in the theoretical section on the course SIW (follow the link

Topographic percussion of the lung superior borders

<https://m.vk.com/video-117441868_456239019>

Percussion of inferior borders of the lungs

<https://m.vk.com/video-117441868_456239020> )

**Tasks and questions for the control learning of the topic**

1. Topographic percussion: goals and rules.
2. The technique of determining superior borders of lungs (the height of the lung apex anteriorly and posteriorly, the width of Kroenig’s fields). Diagnostic value.
3. Methods of determining the inferior border of lungs. Diagnostic value.

**Questions for supervised independent work (SIW).**

*SIW is not applicable*

**Assignments for supervised independent work (SIW).**

*SIW is not applicable*

**Deadline for completion of supervised independent work (SIW).**

*SIW is not applicable*

**Forms of control of supervised independent work (SIW).**

*SIW is not applicable*

**Literature**

**Basic:**

1. Немцов, Л.М. Пропедевтика внутренних болезней = Propaedeutics of Internal Diseases: в 2 ч. : учеб. пособие : для иностр. студентов учреждений высш. образования по специальности «Лечебное дело». Ч. 1 : Обследование органов дыхания и сердечно-сосудистой системы / Л. М. Немцов. - Витебск: ВГМУ, 2021. – 154 экз. Режим доступа: <https://elib.vsmu.by/handle/123/23000>

**Additional:**

1. Немцов Л.М. General propedeutics of internal diseases: Lecture course (Общая пропедевтика внутренних болезней: Курс лекций (на английском языке), 2-е издание / Л.М. Немцов. – Витебск: ВГМУ, 2016. – 310 экз. Режим доступа: <http://elib.vsmu.by/handle/123/268>
2. Current Medical Diagnosis & Treatment / edited by Maxine A. Papadakis, Stephen J. McPhee, Michael W. Rabow ; associate ed. Kenneth R. McQuaid. - 61st ed. - New York [etc.] : McGraw-Hill, 2022. -– 1840 pp. – 1 экз.
3. Доценко, Э.А. Основы лабораторной диагностики = Basics of laboratory diagnostics: практикум на англ. яз. /Э. А. Доценко [и др.] ; М-во здравоохранения Республики Беларусь, Белорус. гос. мед. ун-т, Каф. пропедевтики внутрен. болезней. - Минск : БГМУ, 2020. – 53 с. – 1 экз.

5. Доценко, Э.А. Методы исследования в клинике внутренних болезней = Diagnostic methods in the internal medicine : практикум для студентов стоматол. фак. на англ. яз. / Э. А. Доценко [и др.] ; М-во здравоохранения Республики Беларусь, Белорус. гос. мед. ун-т, Каф. пропедевтики внутрен. болезней. - 2-е изд. - Минск: БГМУ, 2023. – 73 с. – 1 экз