Ministry of Health of the Republic of Belarus

Educational Institution "Vitebsk State Order of Peoples' Friendship

Medical University"

 Department of Faculty Therapy and Cardiology

with a course of the Faculty of Advanced Training and retraining

Approved at the meeting of the department

Protocol No. 10 from 09.01.2025

**METHODOLOGICAL GUIDELINES FOR STUDENTS**

**for practical training**

in the academic discipline "Internal diseases"

specialties 1-79 01 01 "Medical business"

4th year, Faculty of Medicine

full-time education

Lesson topic: Enteropathies. Diseases of the large intestine. Irritable bowel syndrome

Duration: 6 hours

Compiled by:

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Vitebsk, 2025

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

**Goals and objectives of the lesson:**

***The educational objectives*** are to develop students'

*scientific knowledge about:*

the importance of external and internal environmental factors in the development of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

mechanisms of pathogenesis of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

typical clinical manifestations of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

modern methods of diagnostics of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

strategies and tactics of management of patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

*skills and abilities necessary for:*

individual examination of patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

diagnosis and differential diagnosis of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

drawing up an examination plan for patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis, evaluating the results of laboratory and instrumental methods of investigation;

selection and prescription of drugs for treatment of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

prevention of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis.

***Developmental goals*** consist in the formation and development of mental properties of the student, including attention, sensory and perceptual properties, mnemic and thinking properties, psychomotor properties, professional skills and abilities.

***Educational objectives*** are aimed at the formation of personal qualities of students in the course of the training session: a sense of mutual assistance, teamwork, subordination, tact, empathy, responsibility for the assigned work, diligence, accuracy, conscientiousness, understanding the importance of the profession, pride in the achievements of national medicine.

**During the study of the topic of the training session the student should**

**study**:

basic concepts: enteropathies, bacterial overgrowth syndrome, pseudomembranous colitis, diverticular bowel disease, ischemic bowel disease, irritable bowel syndrome, Crohn's disease, nonspecific ulcerative colitis, functional biliary disorders, chronic pancreatitis;

epidemiology, etiology, pathogenesis, predisposing factors, classifications, clinical manifestations, complications, diagnostic methods, differential diagnosis, treatment, primary and secondary prevention, dispensary and prognosis in enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

**learn how to:**

interview (collection of complaints and anamnesis) and clinical examination of patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

prepare an examination plan for patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

interpret the results of laboratory and instrumental investigations in patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

formulate preliminary and final diagnosis in enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis;

execute medical documentation (medical history, appointment sheet, referrals for laboratory and instrumental examinations and consultations, prescriptions for basic medicines);

use educational, scientific, regulatory and reference literature;

observe the rules of medical ethics and deontology;

**practice:**

skills in interpreting the results of general blood analysis, general urine analysis, serum biochemistry, coagulogram, ECG, Rn-impedanceometry, high-resolution manometry, radiographs, scans, angiograms, scintigrams, heart, abdominal and renal organs; endoscopic examination of the GI tract; formulation of the diagnosis of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis.

**Practical skills to be formed during the course, including with the use of simulation training technologies:**

1. skills in interpreting the results of general blood analysis, general urine analysis, serum biochemistry, coagulogram, ECG, Rn-impedanceometry, high-resolution manometry, radiographs, abdominal and renal organs; endoscopic examination of the GI tract;
2. formulation of the diagnosis of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis.

**Interdisciplinary and intradisciplinary links**

When studying the topic use the knowledge and skills obtained during the study of normal and pathological human anatomy, normal and pathological human physiology, pharmacology, propaedeutics of internal diseases.

**Theoretical part**

**Questions for classroom monitoring during the lesson:**

1. Enteropathies: clinical features, diagnostics and treatment of gluten enteropathy, disaccharide-deficiency enteropathies, gastrointestinal lesions in immunodeficiency states.
2. Main clinical and laboratory syndromes. Diagnostic search algorithm.
3. Treatment tactics.
4. Diagnostics and treatment of pseudomembranous colitis, diverticular and ischemic bowel disease, medical rehabilitation, prognosis.
5. Chronic inflammatory bowel diseases (ulcerative colitis, Crohn's disease): etiology, pathogenesis, classification, clinical picture, diagnostics, course options, diagnostic criteria, complications, differential diagnosis, treatment (pharmacological, surgical), prevention, medical rehabilitation, prognosis.
6. Irritable bowel syndrome: etiology, pathogenesis, classification, clinical picture, diagnostics, diagnostic criteria, differential diagnosis, treatment, prevention, prognosis.
7. Functional biliary disorders: definition of the concept, etiology, pathogenesis, frequency of detection, classification, diagnostic methods, diagnostic criteria, clinical manifestations, treatment tactics, prevention, prognosis.
8. Diseases of the pancreas, chronic pancreatitis: definition of concepts, etiology, pathogenesis, classification, clinical picture, diagnostic methods, diagnostic criteria, differential diagnosis, complications, treatment, prevention, medical rehabilitation, prognosis.

**Practical part**

1. *Curation of patients*: collection of complaints and medical history of patients with enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders, chronic pancreatitis; objective examination; drawing up an examination plan; interpreting the results of laboratory and instrumental methods of examination; formulating a diagnosis; drawing up a treatment plan. Registration of medical documentation.
2. *Modeling and solving situational tasks.*

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

1. Prescribe basic medicines for the treatment of enteropathies, diseases of the large intestine, irritable bowel syndrome, functional biliary disorders of chronic pancreatitis (Drotaverine, metronidazole, vancomycin, pancreatin).

2. Justify and formulate a diagnosis when solving a case study.

3. Test tasks on the topic of practical training.

**Questions for guided independent work**

Guided independent work is not provided for by the educational institution’s curriculum for the academic discipline “Internal Medicine” for the specialty 1-79 01 01 “General Medicine”.

**Literature**

**Main:**

1. Internal Diseases = Внутренние болезни : textbook : in 2 vol. Vol. 1 : / edited by A. I. Martynov, J. D. Kobalava, S. V. Moiseev. - Moscow : GEOTAR-Media, 2022. - 683 p. : ill. - Bibliogr.: p. 677. - ISBN 978-5-9704-6766-4. - Режим доступа: https://www.studentlibrary.ru/book/ISBN9785970467664.html – 30 экз.

2. Internal Diseases = Внутренние болезни : textbook : in 2 vol. Vol. 2 : / edited by A. I. Martynov, J. D. Kobalava, S. V. Moiseev. - Moscow : GEOTAR-Media, 2022. - 614 p. : ill. - ISBN 978-5-9704-6767-1. - Режим доступа*:* https://www.studentlibrary.ru/book/ISBN9785970467671.html – 30 экз.

3. Special propedeutics of internal diseases : lecture course / Vitebsk State Medical University, Dep. of Propedeutics of Internal Diseases ; comp. by L. M. Nemtsov. - 2-е изд. - Vitebsk : VSMU, 2016. - 318 p. - Bibliogr.: p. 318. - ISBN 978-985-466-822-2. - Режим доступа: https://elib.vsmu.by/handle/123/9837 - 317 экз.

4. Немцов, Л. М. Пропедевтика внутренних болезней = Propaedeutics of Internal Diseases : учеб. пособие на англ. яз. : для иностр. студентов учреждений высш. образования по специальности "Лечебное дело" : [в 2 ч.]. Ч. 2 : : Обследование органов систем пищеварения, мочевыделения, желез внутренней секреции, крови и опорно-двигательного аппарата / Л. М. Немцов, В. А. Прищепенко, Ю. Г. Юпатов ; М-во образования Республики Беларусь, УО "Витебский гос. мед. ун-т". - Витебск : [ВГМУ], 2023. - 423 с. : ил. - Библиогр.: с. 421-423. - ISBN 978-985-580-165-9. - Режим доступа: https://elib.vsmu.by/handle/123/25144 Гриф(приоритет документа): МО - 250 экз.

**Additional:**

5. Examination of patients in clinic of internal diseases = Обследование пациентов в клинике внутренних болезней : educational instruction for students of 2nd and 3rd years in specialties "General Medicine" and "Stomatology" / Г. И. Юпатов [и др.] ; Ministry of Public Health of Republic of Belarus, EI "Vitebsk State of the order of International Friendship Medical University", Dep. of Internal Diseases Propedeutics. - Vitebsk : VSMU, 2016. - 59 p. - Bibliogr.: p. 31. - ISBN 978-985-466-838-3. – 254 экз.

6. Family Medicine : in 3 books : textbook for students of higher medical education establishments - medical universities, institutes and academies. Book 2 : : Symptoms and Syndromes in Clinical Course of Internal Diseases / L. S. Babinets [и др.] ; edited by O. M. Hyrina, L. M. Pasiyeshvili. - Kyiv : AUS Medicine Publishing, 2018. - 375 p. : ill. - Bibliogr. at the end of the chapters. - ISBN 978-617-505-652-3. Гриф(приоритет документа): МО Укр. *-* 1 экз*.*

7. Family Medicine : in 3 books : textbook for students of higher medical education establishments of the 4th level of accreditation. Book 1 : : General Issues of Family Medicine / O. M. Hyrina [и др.] ; edited by O. M. Hyrina, L. M. Pasiyeshvili. - Kyiv : AUS Medicine Publishing, 2016. - 558 c. : ill. - Bibliogr. at the end of the chapters. - ISBN 978-617-505-494-9. Гриф (приоритет документа): МО Укр. - 1 экз.

8. Internal Medicine: Critical Care : textbook / Babak O. Ya. [и др.] ; edited by O. Ya. Babak, O. M. Bilovol. - Kyiv : AUS Medicine Publishing, 2018. - 367 p. : ill. - ISBN 978-617-505-636-3. Гриф(приоритет документа): УМО Укр. - 1 экз.

9. Kumar & Clark's Clinical Medicine / ed. by Parveen Kumar, Michael Clark ; editor, Online Content Adam Feather. - 9th ed. - Edinburgh [etc.] : Elsevier, 2017. - XIV, 1437 p. : ill. - Bibliogr. at the end of the chapters. - ISBN 978-0-7020-6601-6. - 1 экз.

10. Внутренние болезни = Internal diseases : учеб. пособие для студентов фак. иностр. учащихся и магистрантов (с англ. яз. обучения) / В. М. Пырочкин [и др.] ; М-во здравоохранения Республики Беларусь, УО "Гродненский гос. мед. ун-т" ; под общ. ред. В. М. Пырочкина. - Гродно : ГрГМУ, 2016. - 389 с. : ил. - Библиогр. в тексте. - ISBN 978-985-558-617-4. – 1 экз.

11. Дополнительные методы исследования в клинике внутренних болезней. Практикум = Diagnostic methods in the internal medicine. Workbook : учеб.-метод. пособие для студентов учреждений высш. образования, обучающихся по специальности 1-79 01 01 "Лечебное дело" / Э. А. Доценко [и др.] ; М-во здравоохранения Республики Беларусь, Белорус. гос. мед. ун-т, Каф. пропедевтики внутрен. болезней. - 4-е изд. - Минск : БГМУ, 2024. - 158 с. - Загл. обл.: Diagnostic methods in the internal medicine. Workbook. - ISBN 978-985-21-1556-8. - Режим доступа: https://rep.bsmu.by/handle/BSMU/44425 Гриф(приоритет документа): УМО – 1 экз.

**Regulatory legal acts:**

12. О здравоохранении: Закон Республики Беларусь от 18 июня 1993 г. № 2435-XII: с изменениями и дополнениями. **Литература** / ООО «Профессиональные правовые системы». – Минск, 2019.