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: Functional gastric dyspepsia. Chronic gastritis. Gastroduodenal ulcers

Duration: 6 hours

Compiled by:

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**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 functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

mechanisms of pathogenesis of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

typical clinical manifestations of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

modern methods of diagnostics of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

strategies and tactics of management of patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

*skills and abilities necessary for:*

individual examination of patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

diagnosis and differential diagnosis of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

drawing up an examination plan for patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers, evaluating the results of laboratory and instrumental methods of examination;

selection and prescription of drugs for the treatment of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

prevention of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

emergency medical care in gastrointestinal bleeding, hypochloremic coma.

***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: functional dyspepsia, chronic gastritis, gastroduodenal ulcer, peptic ulcer disease;

epidemiology, etiology, pathogenesis, predisposing factors, classifications, clinical manifestations, complications, diagnostic methods, differential diagnosis, treatment, primary and secondary prevention, dispensary and prognosis in functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

**learn how to:**

interview (collection of complaints and anamnesis) and clinical examination of patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

make a plan of examination of patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

interpret the results of laboratory and instrumental studies in patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

formulate preliminary and final diagnosis in functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers;

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;

*comply* with 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 esophageal diseases, gastroesophageal reflux disease.

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

1. skills to assess the severity of gastrointestinal bleeding, emergency care for gastrointestinal bleeding, hypochloremic coma;
2. interpretation of the results of the general blood test, general urine analysis, biochemical study of blood serum, coagulogram, ECG, pH-impedanceometry, radiographs, scans, angiograms, scintigrams, ultrasound of large arterial vessels, abdominal organs and kidneys; formulation of the diagnosis of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers.

**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. Functional gastric dyspepsia: definition of the concept, frequency of detection, classification, clinical picture, diagnosis, differential diagnosis, treatment tactics, medical rehabilitation, prognosis.
2. Chronic gastritis: etiology, pathogenesis, classification, clinical picture, course features, complications, diagnostic methods, differential diagnosis, treatment, prevention, medical rehabilitation, prognosis.
3. Gastroduodenal ulcers: frequency of detection, etiology, pathogenesis, classification, clinical picture, diagnosis, differential diagnosis. Symptomatic ulcers: causes, pathogenesis, clinical manifestations, treatment. Clinical pharmacology of antisecretory drugs.
4. Helicobacter eradication and evaluation of its effectiveness. Anti-relapse treatment.
5. NSAID gastropathy, patient management tactics.
6. Gastrointestinal bleeding, diagnostic algorithm, differential diagnosis, patient management tactics.
7. Other complications of peptic ulcer disease: penetration, perforation, pyloric stenosis, hypochloremic coma, perigastritis, periduodenitis (clinical picture, diagnosis, treatment, prognosis).

**Practical part**

1. *Curation of patients*: collection of complaints and medical history of patients with functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers; objective examination; drawing up an examination plan; interpretation of the results of laboratory and instrumental methods of examination; formulation of diagnosis; drawing up a treatment plan, algorithm of emergency medical care for gastrointestinal bleeding, hypochloremic coma. Formalization of medical documentation.
2. *Modeling and solving situational tasks.*

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

1. Prescribe basic medications for the treatment of functional gastric dyspepsia, chronic gastritis, gastroduodenal ulcers (famotidine, omeprazole, amoxicillin, clarithromycin, de-nol, almagel, drotaverine, sodium ethamsylate).

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.