**Methodical development of practical exercises**

**for teachers on a cycle**

**«HOSPITAL SURGERY»**

**Practical lesson № 11**

1. **Theme of the lesson: «Diseases of the esophagus».**
2. **Purpose:** to consolidate and expand the spectrum of students' knowledge and skills on the problem of surgical pathology of the Diseases of the esophagus, the formation and assimilation of the foundations of professional competence in relation to the section of surgical diseases under study.
3. **Tasks:**

**The training task:** to consolidate knowledge on the surgical anatomy of the Diseases of the esophagus, to analyze the data obtained earlier on the normal physiology of the Diseases of the esophagus and the disturbance of its functions in the development of pathology, to study the classification, etiology, clinic of the disease. Learn to identify the symptoms of these diseases, learn to evaluate the laboratory, radiological and endoscopic survey data, study the tactics in these diseases, methods of conservative treatment, indications for surgery, principles of surgical treatment for these diseases.

**Developmental task**: to develop skills in working with medical literature, to communicate with patients, their relatives, medical workers, to develop skills in general clinical and surgical examination of patients, perform routine surgical manipulations, to promote the formation of clinical thinking skills, the ability to make decisions, assessing the degree of risk in difficult situations.

**Educating task**: to cultivate respect for patients, their relatives, colleagues, a sense of responsibility for all medical and other actions.

1. **Questions for self-preparation:**

1. Anatomy of the esophagus. Classification of diseases of the esophagus.

2. Achalasia of the cardia. Classification. Clinic, diagnosis. Operative treatment.

3. Esophagus diverticula. Classification. Clinic, diagnosis, treatment.

4. Chemical burns and cicatricial narrowing of the esophagus. Clinic, first aid and treatment in an acute period. Early and later bougie. Clinic of cicatrical narrowing of the esophagus. Treatment, types of bougie, surgical treatment.

5. Benign tumors of the esophagus. Clinic, diagnosis. Methods of surgical treatment.

6. Esophageal cancer. Classification of esophageal cancer by localization, anatomical growth, stages and pathways of metastasis. Clinic and diagnosis of esophageal cancer: laboratory, radiographic, instrumental, cytological.

8. Methods of surgical treatment of esophageal cancer. Radical and palliative operations. Radiation therapy and combined treatment of esophageal cancer.

1. **Basic concepts of the topic:**

1. Esophageal cancer.

2. Ulcerative form.

3. Nodular shape

4. Infiltrative form.

5. Achalasia of the esophagus.

6. Diverticulum of the esophagus.

7. Benign tumors of the esophagus.

8. Damage to the esophagus.

9. Strictures of the esophagus.

10. Chronic esophagitis.

11. Ulcers of the esophagus.

12. Post-burn scars.

13. Polyps.

14. Dysphagia.

13. Pain behind the sternum.

14. Regurgitation.

15. Slowness of the voice.

16. Cancer intoxication.

17. Metastasis of Virchow.

18. Radiographic study.

19. Filling defects

20. Esophagoscopy.

21. Cytology.

22. Radioisotope diagnostics (phosphorus).

23. Achalasia (cardiospasm).

24. Esophagitis.

25. Ulcers of the esophagus.

26. Resection of the esophagus

27. Palliative operations.

28. Buzhirovanie esophagus.

29. Mediastinites.

1. **Chronocard lessons.**

|  |  |  |  |
| --- | --- | --- | --- |
| №  п/п | Stages and contents of the lesson | Мethods and forms | Time |
| 1  1.1  1.2  1.3 | Introductory part of the lesson  Announcement of the topic, objective of the lession.  Evaluation of the readiness of the audience, equipment and students.  Characteristics of the stages and content of the work of students in lesson | Сonversation | 5 minutes |
| 2 | Detection of basic (theoretical) knowledge of students (answers to questions, test tasks, interview). | Interview, survey, testing | 35  minutes |
| 3 | Independent work of students under the supervision of the teacher (evaluation of the results of the examination of patients, the decision of situational problems, the analysis of clinical cases, the construction of diagnostic and therapeutic algorithms). | Work in small groups | 60  minutes |
| 4 | Quality control of students 'knowledge on the topic of the lession (interview, solving of situational tasks, listening to abstracts, discussion of results of students' out-of-class work). | Interview, survey, testing | 70  minutes |
| 5  5.1  5.2  5.3 | The final part of the lesson:  Conclusions on the topic.  Evaluation of the work of students in lession.  Homework for the next lesson | Conversation, individual rating | 10  minutes |

1. **Location:** classroom
2. **Didactic and technical equipment of the lesson**

- Didactic: tables, educational and clinical records of the disease, X-ray picture

- Material and technical: chalk, blackboard.

9. **Literature**

|  |  |
| --- | --- |
| Main literature | Rajgopal, Shenoy KManual of Surgery [Текст] = Руководство по хирургии : руководство / Shenoy K Rajgopal. - 7-е изд. - New Delhi : GBS Publishers & Distributiors (Pvt.) Ltd., 2009. - 827 с. : ил. - ISBN 81-239-1237-4 : 1200.00 р., 660.00 р.  Перевод заглавия: Руководство по хирургии |
| Additional literature | 1. Surgical diseases "/ MI Kuzin, 2015. - 992  2. Surgical diseases: textbook / ed. A.F. Chernousov. - Moscow: GOETAR-Media, 2010. - 664 .: ill. + CD. |