SELECTIVE DISCIPLINE

2020-2021 academic year

| Name of discipline | Instrumental methods of examination in |
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| | the internal medicine practice |
| Department | Propedeutics of Internal diseases |
| Teachers | Prof. Ilashchuk T.O. |
| | As. prof. Prysyazhnyuk V.P. |
| | As. prof. Malkovych N.M. |
| | As. prof. Bobkovych K.O. |
| | As. prof. Mykytyuk O.P. |
| A brief description of | The aim of the discipline: to acquire valid knowledge necessary for |
| the content of the | the appointment of appropriate instrumental investigations of the |
| discipline | internal organs diseases, their performance and interpretation of the |
| | results obtained. To get familiar with ECG and spirometry recording, |
| | ultrasound investigation of the liver, gall bladder and spleen performed taking a unique opportunity to participate during this |
| | real-time investigations performed by the proficient experts in the |
| | field. |
| | Tasks: to learn techniques, common indications and contraindicators |
| | for instrumental investigations of patients with diseases of internal |
| | organs; to gain knowledge considering the results of the appointed |
| | methods, to form the appropriate diagnostic program necessary to |
| | substantiate the clinical diagnosis, evaluate the results of the |
| | investigations; |
| | The results of the study of the discipline: |
| | The student should know: |
| | 1. Instrumental diagnostic methods in the internal medicine |
| | practice (cardiology, pulmonology, gastroenterology, etc.); |
| | 2. Main indications and contraindications to the implementation |
| | of instrumental methods of investigation according to the |
| | recent recommendations (ECG, Holter monitoring, |
| | echocardiography, stress tests, coronary angiography, |
| | spirography, spirography, peak flowmetry, pulse oximetry, bronchoscopy, bronchography, ultrasound of the liver, gall |
| | bladder, pancreas, kidneys, elastography of the liver; upper |
| | gastrointestinal endoscopy and colonoscopy; capsule |
| | endoscopy; wireless capsule pH investigations and catheter- |
| | based pH studies, CT scan, MRI); |
| | 3. The diagnostic value of instrumental methods in internal |
| | medicine in accordance with UpToDate guidelines; |
| | 4. Particular symptoms reviled with the help of the mentioned |
| | investigations typical for internal diseases; |
| | The student should be able to: |
| | 1. Determine the range of diagnostic investigations depending on |
| | the suspected disease; |
| | 2. Record ECG and spirography in patients with different diseases. |
| | 3. Interpret the results of the main and novel instrumental |
| | methods in therapeutic practice (ECG, Holter monitoring, |
| | echocardiography, stress tests, coronary angiography, |
| | spirography, spirography, peak flowmetry, pulse oximetry, |
| | bronchoscopy, bronchography, ultrasound of the liver, gall |
| | bladder, pancreas, kidneys, elastography of the liver; upper |
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| | gastrointestinal endoscopy and colonoscopy; capsule endoscopy; wireless capsule pH investigations and catheterbased pH studies). |
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| Providing competencies | |
| general | Ability to abstract thinking, analysis and synthesis.Knowledge and understanding of the subject area and |
| professional | - Knowledge and understanding of the subject area and understanding of professional activity. - Ability to apply knowledge in practice. - Ability to adapt and act in a new situation. - Ability to identify, pose and solve problems. - The ability to be critical and self-critical. - Ability to collect medical information about the patient and analyze clinical data. - Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies. - Ability to determine the tactics of management of patients with diseases of internal organs. - Ability to perform medical manipulations. |

Information for students:

You have already started examining the patient, you have some knowledge of instrumental methods of diagnotic, but you are still not confident in making diagnoses - than you come to us. You have already known that without additional methods of examination it is impossible to substantiate the diagnosis, but you still do it uncertainly - our department is waiting for you. If you want to record an ECG by yourself, try to perform and interpret Holter ECG monitoring, spirogram, ultrasound diagnosis of the abdominal cavity - we invite you to our course. We offer a variety of clinical therapeutic cases with the analysis of the most modern examination methods in therapy. Each lesson - with a proficient expert (cardiologist, gastroenterologist, pulmonologist, rheumatologist).

Cardiovascular pathology ranks first in the structure of overall mortality. Therefore, the task of every doctor is the timely diagnosis of life-threatening events. Remember - understanding electrocardiography is the key to this. We will improve your knowledge and skills in recording and interpreting the ECG for various disorders of excitability, conduction, coronary problems. We will show you the benefits of Holter ECG monitoring. You will be able to observe echocardiography in real time. You will not have any questions about instrumental and laboratory express-diagnostics of acute coronary conditions.

It is impossible to imagine a modern diagnostics of respiratory diseases without using of spirometry. Spirometry is as important in pulmonology as electrocardiography in cardiology. You will know how to record spirography, how to difference functional disorders of the external breathing, how to conduct and interpret the results of pharmacological tests. Current coronavirus pandemic demonstrates importance of pulse oxymetry - an effective method of rapid diagnosis of pulmonary insufficiency in patients with pneumonia. We will study the correct using and interpretation the results of this method. Bronchoscopy allows you to look inside the bronchial tree and recognize its lesions. In practical classes we will use these diagnostic methods in real and virtual patients. It will be really interesting!!!

We will definitely improve your knowledge in gastroenterology. Our aim is:

- to provide cutting-edge knowledge in the field of upper gastrointestinal endoscopy and colonoscopy;
- to educate students with main indications, technics and obtained results of capsule endoscopy;
- to evaluate experience of wireless capsule pH investigations and catheter-based pH studies;
- to get acquainted with modern possibilities of the ultrasound and elastography investigation of the liver, gall bladder, pancreas in the diagnostic evaluation of the pathologies of these organs and to earn basic practical skills in these investigations. Students will have an opportunity to take part in real-time ultrasonographic investigations performed by the leading experts in the field.

We will help you become a highly professional specialist and overcome the challenges of the diseases diagnostics!