Subject: internal medicine - cardiology

The name of Unit in which the subject is realized
Department of Cardiology
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Head
Prof. dr hab. Zdzisława Kornacewicz-Jach

Senior teaching lecturer
Prof. dr hab. med. Edyta Płońska-Gościniak

Total hours
20 h of seminars
55 h classes

For students of faculty of medicine: V year, IX-X term

Aims of education in cardiology

Aims of education in cardiology in the Department of Cardiology are:

1. to master the theoretical knowledge of cardiology in the range included in the topics of the classes.
2. to gain skill of examination of the patient (anamnesis, physical examination) especially of the cardiovascular system.
3. to participate in the diagnostic and the therapeutic course in the department.
4. to gain skill in making diagnosis, differentiation and treatment of cardiovascular diseases.
5. to perform ecg examination and to recognize a pathology on electrocardiogram.
6. to be familiar with noninvasive and invasive investigations of cardiovascular system.
7. to be familiar with important scientific cardiological trials (evidence based medicine).
8. to gain skill in evaluation of laboratory tests used in cardiology.
9. to school a proper relations between doctors and patients and between doctors and other medical staff.
10. to perform medical documents.

**Program of cardiology**

3. Arterial hypertension. ECG: sings of heart hypertrophy.
8. Diagnostic methods in cardiology.
11. Final test.

*Textbooks*
Swanton. Cardiology.

**Rules of getting the credit for cardiology**

1. Attendance and active participation at every classes and seminars.
2. Making up and getting the credit for every justified absence with the assistants. Questionable cases will be cleared by senior teaching lecturer.
3. Taking the patient’s history.
4. Passing the final cardiology test.
Forms of activities

Subject of cardiology is carried out in IX - X terms in forms classes and seminars. There are no lectures.

The activities in the field of cardiology take place in the Department of Cardiology according to the plan settled by the Deans Office. The classes start with seminars (2 hours) scheduled on the information table in the corridor of the department. After the seminar a practical classes with assistants take place in the Department of Cardiology (patient’s rooms, labs, operating rooms). The seminars are carried out in group of 15 – 20 students. The classes are carried out in 3-6 group of students per tutor. The classes are carried out in 3-6 group of students per tutor.

1. **Seminars** are conducted during 20 h in IX or X term. They include chronic heart failure, coronary artery disease prophylaxis, hypertension, stable coronary artery disease, acute coronary syndromes, valvular heart disease, infective endocarditis, inflammatory heart disease, cardiomyopaties, invasive and noninvasive cardiologic diagnostic methods, heart disturbances, electrotherapy, emergencies in cardiology. Seminars involve knowledge of basic diseases with etiopatogenesis, symptoms, diagnosis, differential diagnosis, treatment, prophylaxis and interpretation of medical tests.

2. **Practical classes with cardiology** include 55 h in IX or X term and are as follow:
   1. to master the theoretical knowledge of cardiology including practical aspects.
   2. to gain skill of medical examination of the patient in cardiology department, including ECG interpretation and lab tests results.
   3. participation in ECG tests, 24 hours ECG, stress ECG test, echocardiography, angiography, angioplasty and interpretation.
   4. taking the patient’s history.
   5. to be familiar with important scientific cardiological trials (evidence based medicine) in practical aspects.
   6. to perform medical documents.

3. **The material with cardiology** is controlled during final test. Final test is carried out by the teaching assistant. Final test is performed on the last day of classes. Additional two
re-sits terms of final test are fixed within 14 days. Otherwise there is a possibility to pass the final test with the senior teaching lecturer in June or September. Before getting the credit students have to certify their attendance and active participation on every classes and seminars. Taking the history is also obligatory in a way fixed with teaching assistant.

4. *The exam* with internal medicine including cardiology is carried out as a test (uni- and multichoice questions) in XII term. Additionally, each of student is obligated to pass practical examination. The exam has two re-takes. For student wish, the 2-re-sit can be carried out in oral form.

**What kind of abilities and knowledge should be achieved by the student at the end of cardiology course?**

- the knowledge of main cardiovascular disorders with their etiopatogenesis, clinical manifestation, additional tests interpretation, diagnosis and differensation, treatment and prevention rules
- the ability to take the history, perform physical examination, perform laboratory tests and ecg interpretation. The correct recognition and differensation should be carried out as well.
- the ability to fix the indications to ecg Holter registration and exercise test
- the importance of primary and secondary prevention in cardiovascular disorders should be well understood
- the ability to describe all pathologies and history in patient’s documentation
- the knowledge of recent cardiological standards and guidelines used in prevention, diagnosis and treatment