

TEACHING PLAN FOR HIGH SPECIALTY CERTIFICATE IN INTERNAL MEDICINE FACULTY OF HIGHER EDUCATION JORDAN UNIVERSITY

General aspects

This program is a section within the Department of Internal Medicine at the faculty of medicine, University of Jordan, and is coordinated by a Director and a high education Committee from Internal Medicine Department. The Committee is responsible for curriculum development and evaluation. All the units and specialists within the department will participate in this program.

- Candidates are accepted after certifying from recognised medical school and passing successfully the internship examination.
- The duration of the program is 4 years.
- The program will train and teach post graduate students the skills, knowledge, and attitudes that are fundamental to practice internal medicine and to prepare them for the examination of Jordanian medical council and Arab board in internal medicine.
- Training will be at Jordan University Hospital and students allowed to have six months training out side the Jordan University Hospital.

Program Objectives

Upon successful completion of higher speciality certificate in internal medicine, student will be able to:

1. Perform a complete history and physical examination on a patient with multi-system disease.

2. Acquire an advanced familiarity with communicating with patients and their families.

3. Elicit their symptoms and physical findings, understands the basis of symptoms and signs produced by diseases.
4. Ask for appropriate radiological, laboratory and other investigations for patients with different medical problems.
5. Perform the following procedures:
 - insertion of central lines
 - insertion of rigid catheters for peritoneal dialysis
 - Pleural fluid aspiration
 - Bone marrow aspiration and biopsy
 - Tracheal intubations
 - Lumber puncture
 - Basic and advanced cardiac life support.
6. Able to diagnose patients with different medical problems either alone or after consulting other colleagues in internal medicine sub specialities.
7. Able to treat appropriately different patients with different medical problems.
8. Able to participate in research related to internal medicine.

Syllabus

The syllabus contains training in the following specialities:

Respiratory / ICU	5 months
Cardiology / CCU	5 months
Gastroenterology	5 months
Nephrology	5 months
Endocrine	5 months
Haematology	5 months
Rheumatology	5 months
Neurology	5 months
Emergency medicine	5 months
Infectious diseases	2 months

Elective (radiology, dermatology,, pathology) 1 month

- It is allowed for the students to have 6 months training outside the Jordan University Hospital in an approved teaching hospital .

Thesis (Research Project) :-

- Required by every students for successful completion of training starting in academic year 2013-2014 .
- Each students should submit his proposal thesis / Research project , within the first 6 months after starting his/ her training .
- The student should approach a faculty member within (the Department / ? Medical School) to be his / her supervisor for one research project / thesis .
- Each faculty member can supervise a maximum of ? 3 students at the same time .
- The selection of a project / supervisor is approved by a special committee (Chairman, program director and a faculty member) .
- Submission of the final draft of the thesis / research project should be done 6 months before completion of fourth year of training .
- Publication of the work in a peer reviewed journal can be accepted without discussion in the committee .
- Theses submitted are discussed by committees assigned by department of medicine .

Resources:

Hospital medical library

Internet access to major medical journals and sites

The organised teaching program as described below.

Methods of Teaching and Training

- 1- Lectures
- 2- Teaching rounds
- 3- Management rounds
- 4- Small group discussions
- 5- Workshops
- 6- Individual training for medical procedures
- 7- Research projects .

Daily work

Each daily work starts at 8 am and ends at 4 pm as follows:

- 7:45 am to 8:30 morning report
- 8:30 to 9:30 Resident's round
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- 9:30 to 12:30 Team's round
- 12:30 to 13:30 Department's activities
- 14:00 16:00 attending clinics and/or consultations (for 2nd, 3rd and 4th year resident) and closing round

Teaching activities

A- Morning Report:

- 1- Each daily work starts with this activity. In morning report, the chairman of the department (or one of the teaching staff) meets the trainee who are on duty the previous night (medical students can be invited to attend this meeting).
- 2- During this meeting the chairman will discuss with residents one or more cases who were admitted through the emergency room.
- 3- The residents also discuss with the chairman the administrative difficulties during their duty.

B- Grand Round

- It is performed once weekly.
- One of the teaching staff will be invited to present the recent advances of common and important subjects in internal medicine.
- Other recognised physicians outside the faculty also can participate in this activity.

C- House staff

- This activity will be performed twice monthly (every other week).
- One of the residents will present one case briefly then he will present a review regarding the subject related to this case.
- At the end the staff and the residents will discuss this case and the review.

D- Flea Market

- It is performed once weekly

- The moderator of this activity is one of the teaching staff.
- The moderator chooses the cases.
- The cases either have important message (s), interesting findings, or have unusual presentation.
- The presentation of the case may include brief history and physical examination, laboratory and x-ray findings and histopathology.
- At the end the moderator will conclude and give the message from the case.

E- Journal club:

- This activity will be performed once monthly
- The residents in the presence of at least one of the teaching staff will present few recent research articles in medicine.
- Each article will be discussed and criticized.
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F- Case of the month

- It is performed once monthly
- Case with interesting presentation, diagnostic and therapeutic challenges presented by one resident and one teaching staff.
- The discussion between the team who present the case and the audience (students and the other teaching staff members) is an interactive discussion and should lead at the end to the right diagnosis and the right treatment option using appropriate approach.

G- Mortality & morbidity

- It is performed once monthly
- The idea behind this activity is to learn from these cases, not to criticize the management of the other teams.
- The resident will learn how to write the scenario and discuss with the other residents and the teaching staff members the progress of the presented cases and if

the management during admission is appropriate or not.

EVALUATION

The evaluation system provides a standardized measurement of medical residents' skills in the following areas:

- Communication skills
- Attitudes and attendances.
- Theoretical knowledge.
- Procedural skills.
- Clinical skills in taking history, physical examination and use of investigation in the diagnosis and treatment of acutely ill and chronic patients.
- Documentation of history, physical examination, follow up and discharge summary.

Final Examination

At the end of the teaching year, a final examination will be performed .The final examination is divided into

A-Written part:

- Contains 100 multiple choice questions (MCQs) for all the residents of different levels.
- The mark of the written part is the number of the MCQs which are answered correctly multiply by different factors for different levels.

B- Clinical examination:

- The practical examination is divided into:

1- Long Case

2- Short Cases

3- Oral examination

Grades:

. 20% Evaluation

Each student is evaluated by the teaching staffs during their rotation in different subspecialty teams, considering the following points:

- Communication skills
- Attitudes and attendances.
- Theoretical knowledge.
- Procedural skills.
- Clinical skills in taking history, physical examination and use of investigation in the diagnosis and treatment of acutely ill and chronic patients.
- Documentation of history, physical examination, follow up and discharge summary

. 30% of the total mark is assigned for final practical examination.

. 50% of the total mark is assigned for final written examination.