

Department of
Internal Medicine
KFU, College of Medicine at Al-Ahsa

Welcome to the Department

Dear Students,

During Internal Medicine rotation, in addition to theoretical knowledge, the main emphasis will be given to develop the history taking and bed side clinical skills. These objectives can be only achieved with the regular visit by the students to the ward patients. Students are expected to take history and clinical examination of patients independently and to discuss them with faculty.

Some basic disciplines are expected from the students to meet up these objectives.

1. Punctuality in time for lectures as well as clinical tutorials.
2. Students should dress formally.
3. Students should have a good attitude towards faculty, doctors, nurses, patients and their colleagues.
4. During ward rotation, students are expected to participate in the ward round with the faculty. Students are expected to present the history, physical signs, progress notes and lab investigations during the case presentation.
5. Students are expected to complete their logbook daily and get it signed by the faculty.

Examination Format:

Clinical Bedside Exam:

1. At the end of rotation in ward, a Bed Side Examination will be held at King Fahd Hospital – Hofuf for one long case and two short cases. There will be two examiners to evaluate each student. A viva exam will entail writing comments on x-rays films and ECG tracings. The details of the exam format will be attached.

Written Exam:

1. Written examination will be held on the proposed date. There will be one question paper for Internal Medicine. The written exam will be held as per schedule at the recreation center of King Fahd Hospital- Hofuf.
2. Written examination may not have questions from the didactic lectures given by the faculty. Students are expected to study the details of the clinical topic from the recommended books or through other learning resources.
3. The written exam will be in form of MCQs of the Single Best Answer. There will be about 50% questions in form of clinical scenarios followed by questions of multiple choices of answers, while the other 50% will be simple recall type of questions. However, this arrangement may vary.

For any query students are welcomed to ask the course coordinator or any faculty member.

Wish you good luck.

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INTERNAL MEDICINE III CURRICULUM

Course Title: Internal Medicine III
Course Designation: MDMD 601
Course Duration: 9 weeks clinical clerkship
Credit Hours: 9 credit hours

I. General Objectives:

At the end of the course the student should acquire knowledge of:

1. The varied manifestations of the important diseases and disease processes in general, and the common medical problems encountered in the practice of internal medicine.
2. The diagnostic and prognostic significance of these manifestations.
3. The significance and limitations of commonly used laboratory and other investigations in the diagnosis process.
4. The therapeutic possibilities to relieve the patient's symptoms and to alter the course of the diseases, as well as ways to prevent the disease, and its complications and toxic effects of therapeutic interventions.

II. Course Content:

1. **Cardiology** (Rheumatic fever, Arrhythmia and Anti-Arrhythmic Drugs, Management of IHD, Management of heart failure, Pulmonary hypertension and Cor pulmonale)
2. **Pulmonary** (Pulmonary embolism, Suppurative lung disease, Pleural Diseases, Interstitial pulmonary fibrosis, Acute respiratory failure & Non-Cardiac Pulmonary Edema, Occupational Lung Diseases)
3. **Nephrology** (Chronic kidney diseases, Calcium and Phosphorus Metabolism, Secondary Glomerulonephritis, Interstitial Nephritis, Mixed acid base disorders, kidney and pregnancy)
4. **GIT** (Chronic Liver Diseases/ Ascites, GI Bleeding, Irritable bowel syndrome, Pancreatitis, Amebiasis & Giardiasis)
5. **Endocrinology** (Acute complications of Diabetes Mellitus, Hypoglycemia, Obesity, Adrenal diseases)
6. **Rheumatology and Immunology** (Crystal Induced Arthritis, Management of Rheumatoid Arthritis, Vasculitis, Scleroderma and systemic sclerosis)
7. **Hematology and Oncology** (Sickle Cell disease, Lymphomas)
8. **Infection / Tropical** (Malaria & Filariasis, Septicemia/ Septic Shock, HIV & Related Infections)

III. Mode of Teaching and Study Plan

Total duration of rotation: 9 weeks (45 working days)

Duration of Teaching the Course: 8 weeks (40 Days)

Duration of Evaluation: 1 week (5 Days)

Number of batches: 4 (A – B – C - D)

Number of students in the whole 6th year class: 54 students, each batch will be 12-14 students

Batch A will start by Internal Medicine for 9 weeks, Batch B will start by General Surgery for 9 weeks

Batch C will start by Obs. & Gynecology for 9 weeks, Batch D will start by Pediatric for 9 weeks

After 9 weeks, batches (A & B) will swap with each other between internal medicine and general surgery departments in the first semester. In same time, batches (C & D) will swap with each other in Obs/Gyn and pediatric departments.

At the end of each rotation a final clinical and written exams will be held for each batch.

During Internal Medicine rotation the batch will be further subdivided into 2 subgroups (6A1 and 6A2) for Internal Medicine I & II (IM I & IM II). Each subgroup will rotate for 4 weeks in the specialty of (Endocrinology, Rheumatology, Nephrology, & Oncology, Hematology for Internal Medicine I) and (Cardiology, Pulmonology, and Gastroenterology for Internal Medicine II). The last week will be for revision and final exam.

Internal Medicine lectures will be held daily between 1-2 PM in Lecture Hall in the College of Medicine as per attached schedule.

1. **Clinical Teaching Rounds:** Respecting all Hospital regulations and behave in a good manner and follow the rules of medical ethics in his relationship with physicians, students, nurses, workers and patients, the students will select the cases to be discussed. The student will present the cases, relevant physical and investigational findings. A rational problem list will be suggested and discussed as well as ways to solve the problems and various aspects of the management of the individual patient. A discussion of general conclusions to be drawn from the case should follow. Preferably, representative cases of major problems should be selected. Clinical teaching will be 3 days/week (Saturday, Monday and Wednesday)
2. **Clinical Clerkship:** The students will be distributed on the beds in the 5th floor, KFHH. Each student will participate in the management of patients on two specific beds through the 8 weeks course. These patients should be followed up regularly in the hospital. Case records should be complete record of positive and negative findings, and they must include a detailed record of management and follow up. They will be assessed by a faculty. It is expected from each student to present and write report about his patient to the faculties.
3. **Emergency Medicine:** Each student is expected to attend Internal Medicine ER 3 hours weekly including other related sub-specialties as ER-Hemodialysis, ICU and CCU to learn emergency and acute management of acute medical conditions. Case records should be complete to record positive and negative findings, and they must include a detailed record of management and follow up. They will be assessed by a faculty.

The students will be distributed to attend emergency related subspecialties as ER, Hemodialysis, ICU and CCU for 3 hours/week from 9 to 12 AM. 6A1 group will attend on each Sunday, while, 6A2 will attend on each Tuesday from each week through the 8 weeks clinical teaching. There will be 1 to 2 students in each subspecialty and they will swap between each other. On the faculty members will guide the students during their ER duties.

4. **Lectures:** The students of each batch are expecting to attend their related lectures. Internal medicine lectures (35 Lectures) will be delivered by faculties to cover related topics. The lectures will be repeated to each batch of VI year throughout the whole academic year. The lectures will be daily throughout the 8 weeks clinical rotation from 1 to 2 PM in the lecture Hall in the Faculty of Medicine

5. **Morning Meetings:** Each student is expected to attend and participate actively in the Clinical morning meetings of the department daily.

6. **CPC:** 5 sessions of presentation of IM cases will be done, each student is expected to present a case to all students of the batch. The discussion will be guided by a faculty.

IV. Evaluation:

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| 1. Attendance and continuous assessment | 10% |
| 2. Clinical examination at the end of each batch (9 weeks) (Consisted of long case, two short cases) | 40% |
| 3. Final Written Examination and viva that consisted of CXRs and ECG) for each batch of the students at the end of their clinical rotation (9 weeks) | 50% |
- N.B. Passing of the clinical examination is mandatory to passing the examination.

V. References:

1. Huchinson's Clinical Methods
2. Clinical Medicine. Ed. Parveen I. Kumar & Michael L. Clark
3. Davidson Textbook of Internal Medicine
4. For further readings, students are advised to consult other textbooks such as Principles of Internal Medicine (Harrison)

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Schedule of Lectures for 6th Year Medical Students

Time: 1 – 2 PM

Venue: Lecture Hall for 6th year at New Building of College of Medicine

	Saturday	Sunday	Monday	Tuesday	Wednesday
Week 1	Chronic Kidney Diseases	Acute complications of Diabetes Mellitus	Crystal Induced Arthritis	Pulmonary embolism	Rheumatic fever
Week 2	Calcium, and Phosphorus Metabolism	Hypoglycemia	Vasculitis	Suppurative Lung Diseases	Arrhythmia & Anti-arrhythmic drugs
Week 3	Secondary Glomerulonephritis	National Day Vacation	Management of Rheumatoid Arthritis	Pleural Diseases	Management of Ischemic Heart Disease
Week 4	Interstitial Nephritis	Adrenal Diseases	Systemic Sclerosis	Acute Respiratory Failure and Non-Cardiac Pulmonary Edema	Management of Heart failure
Week 5	Mixed Acid-Base Disorders	Obesity	Malaria & Filariasis	Interstitial Pulmonary Fibrosis	Gastrointestinal Bleeding
Week 6	Kidney and Pregnancy	Amebiasis & Giardiasis	Septicemia/ Septic Shock	Occupational lung diseases	Irritable Bowel Syndrome
Week 7	Lymphomas	Pulmonary Hypertension and Cor Pulmonale	HIV & Related Infections	Sickle Cell Disease	Pancreatitis
Week 8	Chronic liver diseases	CPC	CPC	CPC	CPC
Week 9	Clinical and Written Exams				

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Schedule of Clinical Teaching for 6th year Medical Students

Time: 9 – 12 AM

Venue: 5th floor KFHH, Department of Internal Medicine, Male side

	Saturday		Monday		Wednesday	
	6A1	6A2	6A1	6A2	6A1	6A2
First Week	Dr5	Dr4	Dr1	Dr2	Dr3	Dr7
Second Week	Dr5	Dr4	Dr1	Dr2	Dr3	Dr7
Third Week	Dr5	Dr4	Dr1	Dr2	Dr3	Dr7
Fourth Week	Dr5	Dr4	Dr1	Dr2	Dr3	Dr7
Fifth Week	Dr4	Dr5	Dr2	Dr1	Dr7	Dr3
Sixth Week	Dr4	Dr5	Dr2	Dr1	Dr7	Dr3
Seventh Week	Dr4	Dr5	Dr2	Dr1	Dr7	Dr3
Eighth Week	Dr4	Dr5	Dr2	Dr1	Dr7	Dr3
Ninth Week	Final Examination					

Any faculty has teaching for skill lab on Monday and/or Tuesday can shift his clinical group to Sunday or Tuesday.