



University of Sharjah
College of Medicine

Medicine II:
Clerkship Course Guide 2019-20
Clinical Sciences Department

University of Sharjah
College of Medicine

Study Guide for Medicine II

Dear students,

This short study guide provides a brief summary of the topics that will be covered during the Medicine II clerkship via MCQ review sessions, workshops, tutorials and bedside clinical sessions for procedural skills. It outlines common conditions that may be encountered for each rotation. For more comprehensive details of the entire clerkship, please refer to the Medicine II Clerkship Manual.

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Clerkship details

Course ID: 0900601

Credit hours: 11

Clerkship duration: 10 weeks

Contact hours: 180 hours (20 hours/week)

Self-directed learning: 252 hours (28 hours/week)

Clerkship coordinators

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 - Coordinator of the Medicine Clerkship
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Clerkship overview

The clerkship is a 10-week course during the fifth year of medical training at the University of Sharjah. It is a clinical experience that introduces students to basic principles of emergency medicine and medical sub-specialties.

Components of the rotation are:

Accident and Emergency – 3 weeks

Cardiology - 2 weeks

Dermatology - week

Neurology - 2 weeks

Radiology - 1 week

During their rotation, the mornings are spent on the wards, in outpatient clinics, performing and observing procedures and bed side teaching. Call duties occur in the emergency department. Other important educational activities are mostly in the afternoons and consist of problem based interactive learning, prescription writing, radiology interpretation, laboratory results interpretation, learning procedures, etc. In addition, students will receive training in Basic Life Support (BLS and modified ACLS). Theoretical aspects of important topics in medicine will be covered in the college.

By the end of the clerkship, the students are expected to:

- Demonstrate appropriate focused clinical history taking and physical examination skills relevant to medical practice in each sub-specialty
- Demonstrate appropriate use and accurate interpretation of relevant investigative and diagnostic tests

- Develop appropriate therapeutic treatments and management plan
- Understand the 'continuum of care' in the management of patients including formulating a discharge plan
- Perform a range of therapeutic and diagnostic procedural skills relevant to medical sub-specialties
- Demonstrate an ability to work as an effective member of a multidisciplinary health care team
- Demonstrate appropriate professional and ethical behaviour with patients and members of the health care team
- Understand the framework of the UAE National Health care system
- Demonstrate the application of problem solving skills using real patient-based CPBL

Clerkship learning outcomes

By the end of the clerkship students will be able to,

- Integrate basic and clinical knowledge necessary for diagnosis and management of medical conditions.
- Communicate effectively with patients and their families
- Perform targeted history taking and relevant physical examination of patients.
- Develop clinical reasoning and interpretation skills to reach the diagnosis for clinical encounters including medical emergencies.
- Develop management and follow-up plans for common and emergent health problems.
- Perform basic medical procedures required in healthcare settings.
- Identify principles of disease prevention and behavioral changes
- Work effectively with other healthcare professionals in multi-disciplinary teams.
- Apply principles of patient-safety in the clinical setting.
- Demonstrate professionalism and ethical principles in the healthcare settings.

Intended learning outcomes and syllabus per sub-rotation

Accident & Emergency (3 weeks)

By the end of the rotation, students are expected to,

- acquire practical knowledge about the management of critically ill patients
- develop necessary skills for critical thinking and multi-tasking in a busy ER facility.
- improve bedside clinical skills including focused history taking, clinical examination, relevant investigations, and appropriate treatment relevant to acute critically ill patient.
- master the basic emergency life support and resuscitation skills
- discuss the concept of acute patient transfer
- develop the habit of good communication skills with the patients and professional interaction with other medical personnel.

Core topics and procedural skills include:

- Triage
- BLS/ACLS
- Shock
- Airway management
- Trauma
- Toxicology
- Environmental hazards

- Common medical and surgical emergencies
- Common pediatric emergencies
- Procedural skills (IV cannula insertion, N/G tube insertion, etc.)

Neurology (2 weeks)

By the end of the rotation, students are expected to,

- identify common emergent neurological problems
- obtain an appropriate focused history and perform physical / mental state examination relevant to common neurological problems
- discuss the relevant the anatomy, physiology, biochemistry and pathology relating to the patient case
- generate a working diagnosis and develop a management plan including justification of appropriate investigations
- initiate a treatment plan and review the pharmacology of common drugs used for the treatment of neurological conditions

Core topics and procedural skills include:

- Headache
- Stroke Syndromes
- Subarachnoid Hemorrhage
- Altered Mental Status and Coma
- Seizures and Status Epilepticus in Adults
- Acute Peripheral Neurologic Lesions
- Central Nervous System and Spinal Infections
- Acute vertigo
- Acute Ataxia and Gait Disturbances

Cardiology (2 weeks)

By the end of the rotation, students are expected to,

- obtain an appropriate focused history and perform physical examination, integrated with the practice of evidence-based medicine in relation to patients with emergent cardiac problems.
- interpret ECG findings of selected common conditions.
- interpret the data obtained via stress testing and interpretation of a typical coronary angiogram.

Core topics and procedural skills include:

- Interpretation of ECG
- Common cardiac rhythm disturbances
- Chest pain
- Angina and acute coronary syndrome
- Syncope
- Acute heart failure
- Acute pulmonary edema
- Cardiogenic Shock
- Acute pericarditis
- constrictive pericarditis
- Cardiac tamponade
- Arterial occlusion and peripheral artery disease

Dermatology (1 week)

By the end of the rotation, students are expected to,

- discuss the basic structure, and function of the skin and its appendages, (including hair, nail, sebaceous glands, and eccrine glands)
- discuss principles of the skin immune system, carcinogenesis and genetics as they relate to skin disease
- verbalize key dermatological terminology
- demonstrate dermatological history taking and examination skills
- recognize normal cutaneous changes and distinguish between dermal and epidermal changes.
- describe a solitary skin lesion and cutaneous eruption using appropriate dermatological terminology
- discuss the clinical features and classification of common skin diseases
- demonstrate the knowledge necessary to be able to diagnose and treat common skin conditions.
- utilize this knowledge to interpret evidence, formulate simple management plans and communicate effectively
- demonstrated awareness of the psychosocial impact of skin disease

Core topics and procedural skills include:

- Dermatological emergencies
- Skin infections & infestations
- Inflammatory and autoimmune (blistering) disorders of the skin
- Skin findings of metabolic and nutritional disorders
- Skin disorders associated with specific cutaneous structures
- Vascular disorders involving the skin
- Skin Disorders caused by external agents
- Precancerous and cancerous skin lesions and disorders
- Skin manifestations of systemic diseases

Radiology (1 week)

By the end of the rotation, students are expected to,

- identify the most appropriate imaging investigations to assist with the diagnosis of common clinical problems
- develop the skills of explaining and preparing patients for imaging procedures
- explain and describe the findings from imaging investigations
- interpret the findings from radiological investigations and apply these in patient diagnosis and care

Core topics and procedural skills include:

- Chest X-ray
- X-ray of abdomen
- Abdomino-pelvic ultrasound
- CT abdomen
- Neuroradiology (CT/MRI)
- Skeletal radiographs
- Barium studies

Summary of Assessment

Current assessment has two main components: continuous assessment with a weightage of 20%, and end of clerkship assessment with a weightage of 80%.

The mark distribution for every rotation in year 4 is as follows:

Continuous Assessment (20%)

- E-portfolio = 10%

- Student performance evaluation = 10%

End of clerkship (80%)

- Written exam (MCQs/EMQs) = 45%
- Objective structured clinical examination (OSCE) = 35%

The minimum cumulative pass mark is 70%, provided that a student scores a minimum pass mark (70%) in the OSCE.

Suggested Resources

There is no single textbook or resource that can be recommended for the undergraduate medical students. The following books and resources are suggested only for your guidance and you can choose anyone of the suggested or other books and resources for your studies.

Accident & Emergency

- Oxford Handbook of Emergency Medicine
- Tintinalli's Emergency Medicine Manual

Neurology & Cardiology

- Davidson's Principles and Practice of Medicine
- Step-up to Medicine
- Current Medical Diagnosis & Treatment
- Oxford Handbook of Clinical Medicine

Dermatology

- Oxford Handbook of Medical Dermatology
- Dermatology handbook for medical students (available on Blackboard)

Radiology

- Learning Radiology: Recognizing the Basics

Online resources

- AMBOSS
- UpToDate
- radiopaedia.org
- www.dermnetnz.org