



University of Sharjah
College of Medicine

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

Study Guide Medicine I

Dear students,

This short study guide provides a brief summary of the topics that will be covered during the Medicine I clerkship via resource sessions, workshops, bedside clinical sessions and procedural skills. This study guide provides relevant details regarding the Medicine I clerkship, to pave your paths to successful completion of the rotation. For more comprehensive details of the entire clerkship, please refer to the Medicine I Clerkship Manual.

Clerkship details

Course ID: 0900503

Credit hours: 11

Clerkship duration: 10 weeks

Contact hours: 180 hours (20 hours/week)

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

Clerkship coordinators

1. Professor Mohamed Al-Hajjaj
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 - Coordinator of the Medicine Clerkship
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 - Student office hours: Sunday & Tuesday 3-4 pm, Thursday 1-2 pm
2. Dr. Ali Ibrahim Shorbagi
 - Co-coordinator of the Medicine I clerkship
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 - Student office hours: Sunday & Tuesday 2-4 pm, Thursday 1.30-3.30 pm

Clerkship description

The clerkship is a 10-week course during the fourth year of medical training at the University of Sharjah. Students are assigned to outpatient and inpatient medical services at several affiliated hospitals in where they will have the opportunity to observe and participate in the active care for patients, under the supervision of faculty and hospital staff. Students in the Medicine I Clerkship attend regular bed-side teaching sessions which include sessions on problem based interactive learning and laboratory/radiology interpretation. Other in-hospital activities include ward rounds, morning handover reports, night calls and emergency room activities. Students will also observe and perform bed-side procedures under supervision of faculty. On-campus resource sessions vary from

case-based discussions, to case scenarios and MCQ reviews as well as several workshops. By the end of the course, the students are expected to:

- be able to perform a complete history and physical examination
- write orders and notes
- develop the problem list
- formulate a differential diagnosis, diagnostic strategy, and management plan for common medical problems
- interact as a professional with the patient, family, and members of the medical team.

Summary of timeline is as follows:

Activity	Week									
	1	2	3	4	5	6	7	8	9	10
Hospitals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E-portfolio		✓	✓	✓	✓	✓	✓	✓	✓	✓
Workshops		✓	✓		✓	✓				
CBD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CS & MCQ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Exam week										✓

CBD = Case-based discussion session

CS & MCQ = Case Scenarios and MCQs review session

General weekly plan

The general weekly plan for the first 9 weeks of the rotation is as follows:

Day	Hospital	Workshop	CBD	CS and MCQ
Sunday	✓	✓	✓	
Monday	✓			✓
Tuesday	✓			✓
Wednesday	✓			✓
Thursday	✓			✓

Kindly note that this is subject to change based on availability of instructors or other schedule conflicts. Please follow the announcements for any changes to the schedule.

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 complete history taking and relevant physical examination of patients
- develop clinical reasoning and interpretation skills to reach the diagnosis for common clinical encounters in healthcare settings.

- develop a management plan for common health problems including those requiring long-term follow-up and rehabilitation
- perform basic medical procedures required in healthcare settings.
- identify principles of disease prevention and behavior 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.

Summary of Assessment

Current assessment has two main components: continuous assessment with a weightage of 40%, and end of clerkship assessment with a weightage of 60%.

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

Continuous Assessment (40%)

- E-portfolio = 10%
- Student performance evaluation = 10%
- Direct observation clinical encounter examination (DOCEE) = 20%

End of clerkship (60%)

- Written exam (MCQs/EMQs) = 35%
- Objective structured clinical examination (OSCE) = 25%

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

Syllabus and procedures list

Below is a list of the core topics that constitute the syllabus for the Medicine I clerkship at University of Sharjah. Further details regarding competency objectives for each topic may be found in the clerkship manual.

Common symptoms and presentations for which students would be expected to formulate a differential diagnosis and initial management plan include:

1. Anemia
2. Fever
3. Headache
4. Shortness of breath
5. Palpitations
6. Diarrhea
7. Joint pain
8. Chest pain
9. Fatigue
10. Hematuria
11. Constipation
12. Weight loss
13. Jaundice
14. Syncope

15. Splenomegaly
16. Edema
17. Abdominal pain
18. Cough (Chronic cough)
19. Hemoptysis

Listed below is a topic list classified by body systems. Core topics which are frequently addressed during assessments, have been marked with an asterix (*). Questions related to them may account for 60-70% of the assessments

1. Diseases of the Cardiovascular System

- Hypertension*
- Ischemic Heart Disease*
- Congestive Heart Failure*
- Arrhythmias*
- Diseases of heart muscle
- Pericardial Diseases
- Valvular Heart Disease
- Congenital Heart Disease
- Diseases of the Vasculature
- Hypertensive Emergencies
- Cardiac Neoplasms
- Shock (hypovolemic, cardiogenic, septic, neurogenic)

2. Diseases of the Respiratory System

- Obstructive Lung Diseases*
- Diseases of the Pleura*
- Granulomatous Lung Diseases
- Environmental Lung Disease/Pneumoconiosis
- Interstitial Lung Disease Associated with Hypersensitivity
- Alveolar Filling Disease
- Pulmonary alveolar proteinosis
- Miscellaneous Interstitial Lung Disease
- Respiratory failure
- Diseases of the Pulmonary Vasculature*
- Obstructive Sleep Apnea*

3. Diseases of the Gastrointestinal System

- Common gastrointestinal symptoms and condition*
- Diverticular diseases*
- Viral hepatitis and Cirrhosis*

- Jaundice*
- Diseases of the Gallbladder and Biliary Tract
- Diseases of the Pancreas*
- Gastrointestinal Bleeding*
- Disorders of the esophagus
- H.pylori infection and Peptic Ulcer Disease*
- Diseases of the Small Intestine
- Inflammatory Bowel Disease

4. Endocrine and Metabolic Diseases

- Hyperlipidemia
- Diabetes Mellitus*
- Diseases of the Thyroid Gland*
- Diseases of the Pituitary Gland*
- Diseases of the Parathyroid Glands
- Diseases of the Adrenal Glands*
- Diseases of the endocrine Pancreas*
- Obesity
- Hypoglycemia

5. Diseases of the Central and Peripheral Nervous Systems

- Cerebrovascular Disease (Stroke)*
- Movement Disorders
- Dementia
- Altered Mental Status
- Demyelinating Disease*
- Multiple Sclerosis*
- Guillain–Barré Syndrome*
- Neuromuscular Diseases
- Spinal Cord Diseases
- Epilepsy*
- Headache*
- How to Localize a Neurologic Lesion*

6. Musculoskeletal disorders and connective tissue diseases

- Common musculoskeletal problems*
- Connective Tissue Diseases*
- Crystal-induced Arthritides*
- Myopathies and Pain Syndromes
- Seronegative Spondyloarthropathies*
- Vasculitis

7. Diseases of the Renal and Genitourinary System

- Renal Failure*
- Proteinuria and Hematuria*
- Glomerular Disease (Glomerulonephropathies)*
- Tubulointerstitial Diseases
- Renal Cystic Diseases
- Renal Vascular Disease
- Renal Artery Stenosis (Renovascular Hypertension)

8. Fluids, Electrolytes, and Acid–Base Disorders

- Volume Disorders*
- Disorders of sodium homeostasis*
- Disorders of potassium Homeostasis*
- Disorders of calcium homeostasis*
- Disorders of magnesium Homeostasis
- Disorders of phosphate Homeostasis
- Acid–base Disorders *

9. Hematologic Diseases and Neoplasms

- Microcytic Anemias*
- Normocytic Anemias
- Macrocytic Anemias
- Hemolytic Anemias*
- Platelet Disorders*
- Disorders of coagulation*
- Plasma Cell Disorders
- Myeloproliferative Disorders
- Lymphoproliferative Disorders
- Leukemias*
- Myelodysplastic Syndromes
- Cancer Prevention and Screening*
- Principles of Cancer Staging and Therapy
- Palliation and Pain Management*

10. Infectious Diseases

- Infections of the Respiratory Tract*
- Infections of the Central Nervous System*
- Infections of the Gastrointestinal Tract
- Infections of the Genitourinary Tract*
- Sexually Transmitted Diseases*

- HIV and AIDS
- Wound and Soft Tissue Infections
- Infections of the Bones and Joints
- Zoonoses and Arthropod-borne Diseases
- Fungal Infections
- Common Parasitic Infections*
- Fever and Sepsis*

11. Multisystem disorders

Examples of bed-side procedures to be observed and, if possible, performed by the students include (but is not limited to):

- Insertion of peripheral venous canula
- Demonstration an inhaler use
- Performing an ECG
- Insertion of a nasogastric tube
- Insertion of a urethral catheter
- Insertion of a central line
- Bone marrow aspiration (biopsy)
- Abdominal paracentesis
- Aspiration of a pleural effusion
- Lumbar puncture
- Bronchoscopy
- G.I. Endoscopy
- Drawing venous blood
- Preparing peripheral smear
- Preparing thick smear
- Blood culturing
- Intramuscular injection
- Subcutaneous injection
- Intradermal injection
- Intravenous injection
- Assessment of blood glucose using glucometer
- Assessment of ketone in urine
- Drawing arterial blood gas sample
- Thoracentesis
- Dressing a wound
- Pharyngeal culturing
- Preparing a smear from a lesion
- Preparing a sputum smear
- Application of nasal oxygen

Recommended textbooks

1. Davidson's Principles and Practice of Medicine
 - Paperback: 1440 pages
 - Publisher: Elsevier Health Sciences
 - Language: English
 - ISBN-10: 0702070270
 - ISBN-13: 978-0702070273

2. Step-up to Medicine (5th edition)
 - Paperback: 592 pages
 - Publisher: Wolters Kluwer Health
 - Language: English
 - ISBN-10: 1975103610
 - ISBN-13: 978-1975103613

3. Current Medical Diagnosis & Treatment 2020
 - Paperback: 1936 pages
 - Publisher: McGraw-Hill Education
 - Language: English
 - ISBN-10: 1260455289
 - ISBN-13: 978-1260455281

4. Oxford Handbook of Clinical Medicine
 - Paperback: 904 pages
 - Publisher: Oxford University Press
 - Language: English
 - ISBN-10: 9780199689903
 - ISBN-13: 978-0199689903

Online resources

Below is a list of subscription-based online resources that are available to University of Sharjah students via the student library, free of charge.

1. The Journal of Visualized Experiments (styled JoVE)
 - JOVE is a peer-reviewed scientific journal that publishes experimental methods in video format. In the Science Education section, under Clinical Skills, you will have access to many videos on physical examination and common procedures.

2. AMBOSS
 - This is a learning system designed for medical students, residents and physicians, who can use the library as an easily navigable reference tool for their clinical work. The Qbank is

optimized for medical students to prep for exams with an integrated USMLE-style question bank. AMBOSS is created by a team of physicians and clinicians. it is a better way to study by providing Smart Study Medical Questions Bank and Answers.

3. UpToDate

- The UpToDate system is an evidence-based clinical resource. It includes a collection of medical and patient information, access to Lexi-comp drug monographs and drug-to-drug interactions, and a number of medical calculators. UpToDate is written by over 5,700 physician authors, editors, and peer reviewers. It is available both via the Internet and offline on personal computers or mobile devices.