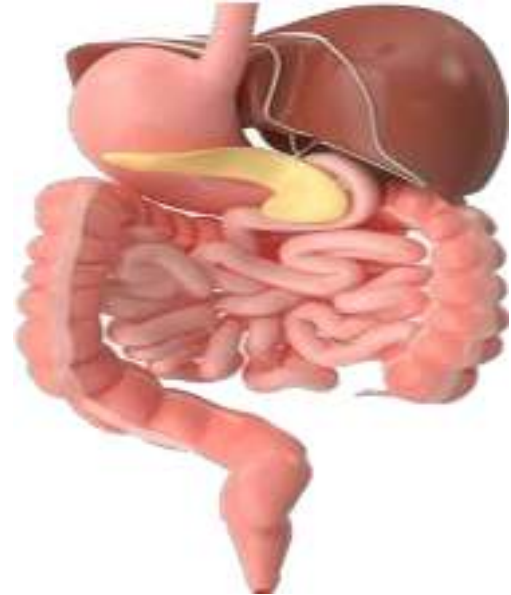




**Faculty of Medicine
Dept. of Internal Medicine**



Sohag University



Rotation Medicine

STUDY GUIDE Medicine II (MTR-417)

Prepared by

Under supervision of

Medical Education Centre

Faculty of Medicine Sohag University

**Departements of Internal Medicine and Tropical Medicine &
Gastroenterology - Sohag University**

Contact Information of Staff Responsible for Block

Heads of the sharing departments

Prof. Nayel Zaki	Head of Department of Internal Medicine
Prof. Asmaa Nasser Mohammed	Head of Department of Tropical Medicine and Gastroenterology
Prepared by	
Dr. Amal Khalifa Ahmed	Assistant Professor of Internal Medicine
Dr. Mahmoud Ibrahim Yousef	Lecturer of Internal Medicine
Prof. Khairy Hammam Morsy	Professor of Tropical Medicine and Gastroenterology

Staff Participated from Department

**All staff members of Internal Medicine and Tropical Medicine &
Gastroenterology
2024- 2025**

Basic Information about the Block

- Program on which the course is given:

Bachelor of Medicine and Surgery (M.B. B.Ch.).

- Elements (major or minor) of the program:

- Departments offering the course:

Internal Medicine and Tropical Medicine & Gastroenterology

Academic. year/level:

4th year

Date of specification approval: 14/9/2022, 11/9/2022, 5/9/2023, 2024- 2025

⊗ Title: Medicine II

⊗ Code: MTR - 417

⊗ Credit points: 15

⊗ Lectures: 55 hours

⊗ Practicals : 33 hours

⊗ Case based discussions: 107 hours

⊗ Student learning activities: 150 hours (5 points)

Portfolio : (22)

⊗ Formative assessment (45 hours= 1.5 point).

Total hours: 390 hours

Block Map

block	Total marks	Responsible department	Days/ weeks ³	Points	الوحدة التعليمية Block	year
MTR-417	300	Internal medicine- Tropical Medicine and Gastroenterology	8 weeks	15	Medicine II أمراض باطنة وامراض المتوائنة	4 th year

Course co-ordinator : Dr. Ahmed Ali Ahmed

Dr. Mohamed Mostafa

Dr Mohamed Hussin

Dr. Amira Maher

External evaluator: Prof. Alaa Eldin Abd Elmoniem
(Assuit University)

Methods of Student Assessment

1. Formative:

This is used to monitor student's learning to provide ongoing feedback that can be used by instructors to improve their teaching and by students to improve their learning. It's given once weekly and the answers are presented and discussed immediately with you after the assessment.

2. Summative It is used to evaluate student's achievements at the end of an instructional unit. The grades tell whether the student achieved the learning goal or not.

The student's performance will be assessed according to the following:

Assessment task	Type of assessment	Proportion of total assessment			
		%	Marks	Medicine Wt% 74.6%	Tropical Wt. 25.4%
End-block exam	MCQ	20%	60 marks	45 marks	15 marks
Portfolio	May include incision academy certificates	10%	30 marks	23 marks	7 marks
Final written exam	75%MCQ, 25% (short answer questions and modified short essay)	40%	120 marks	90 marks 74.6% 22 M المقالى	30 marks 25.4% 8 M المقالى
OSCE final	Typical OSCE stations using standardized, real or skill lab encounters	30%	90 marks	77.7% 70 marks	22.3% 20 marks
Total		100%	300 marks	228 marks	72 marks

NARS competencies covered by the block Clinical Rotations (Blocks)/ Competencies

The competency areas of the NARS- Medicine competency framework are:

- 1- The graduate as a health care provider.
- 2- The graduate as a health promoter.
- 3- The graduate as a professional.
- 4- The graduate as a scholar and scientist.
- 5- The graduate as a member of the health team and a part of the health care system.

6- The graduate as a lifelong learner and researcher.

Upon completion of this course students should be able to:

NARS	Rotation	ILO Type
1.1. Take and record a structured, patient centered history.	Medicine II	C
1.2. Adopt an empathic and holistic approach to the patients and their problems.		C
1.3. Assess the mental state of the patient.		C
1.4. Perform appropriately timed full physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.		C
1.5. Prioritize issues to be addressed in a patient encounter.		A&C
1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.		A&C
1.7. Recognize and respond to the complexity, uncertainty and ambiguity inherent in medical practice.		A&C
1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.		A
1.9. Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).		A&C
1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.		A&C
1.11. Perform diagnostic and intervention procedures ² in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.		C
1.12. Adopt strategies and apply measures that promote patient safety.		C
1.13. Establish patient-centered management plans in partnership with the patient, his/her family and other health professionals as appropriate, using Evidence Based Medicine in management decisions.		A&C
1.14. Respect patients' rights and involve them and /or their families in management decisions.		A&D
1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.		A&C

1.16. Apply the appropriate pharmacological and nonpharmacological approaches to alleviate pain and provide palliative care for seriously ill people, aiming to relieve their suffering and improve their quality of life.		A&C
1.17. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification.		A&C
2.7 Provide care for specific groups including pregnant women, newborns and infants, adolescents and the elderly.		A&C
2.9 Adopt suitable measures for infection control.		A&C
3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.		C
3.2. Adhere to the professional standards and laws governing the practice, and abide by the national code of ethics issued by the Egyptian Medical Syndicate.		D&C
3.3. Respect the different cultural beliefs and values in the community they serve.		C

3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.		C&D
3.5. Ensure confidentiality and privacy of patients' information.		D
3.7. Recognize and manage conflicts of interest.		D
3.8. Refer patients to appropriate health facility at the appropriate stage.		A&D&C
3.9. Identify and report any unprofessional and unethical behaviors or physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.		D
4.5 Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of illness/disease and explain the ways in which they operate on the body (pathogenesis).		A
4.6 Describe altered structure and function of the body and its major organ systems that are seen in various diseases and conditions.		A
4.7 Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.		A
5.1 Recognize the important role played by other health care professions in patients' management.		A&D

5.2 Respect colleagues and other health care professionals and work cooperatively with them, negotiating overlapping and shared responsibilities and engaging in shared decision-making for effective patient management.		C&D
5.3 Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work.		C&D
5.4 Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.		C&D
5.5 Communicate effectively using a written health record, electronic medical record, or other digital technology.		C&D
5.6 Evaluate his/her work and that of others using constructive feedback.		D
5.7 Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.		C&D
5.9 Use health informatics to improve the quality of patient care.		D
5.10 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.		D

5.12 Demonstrate accountability to patients, society, and the profession.		D
6.1 Regularly reflect on and assess his/her performance using various performance indicators and information sources.		D
6.2 Develop, implement, monitor, and revise a personal learning plan to enhance professional practice		D
6.3 Identify opportunities and use various resources for learning.		D
6.4 Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.		A-D
6.5 Recognize practice uncertainty and knowledge gaps in clinical and other professional encounters and generate focused questions that address them.		A-D
6.6 Effectively manage learning time and resources and set priorities.		D
6.10 Summarize and present to professional and lay audiences the findings of relevant research and scholarly inquiry.		D

Block Aims

Overall Aims

1. This block aims to provide students with fundamental knowledge and clinical skills that enable him/her to detect, manage and/or refer common and important

Endocrinal;GIT;Hepatobiliary;Nutritional and Rheumatological diseases.

2. By the end of the blocks, the students will be able to take informative history, perform appropriately timed physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive , do some clinical procedures and interpret important investigations related to

Endocrinal;GIT;Hepatobiliary;Nutritionaland Rheumatological diseases.

3. By the end of the blocks, the students will be able counsel patients and theirfamiliesaboutcommonEndocrinal;GIT;Hepatobiliary; Nutritional and Rheumatological diseases

Intended Learning Outcomes of the Block

A- Knowledge and understanding Upon completion of the course students should be able to:

A1-Applydefinition, etiology, pathogenesis, clinical features, complications, principles of prevention and management in common Endocrinal;GIT;Hepatobiliary;Nutritionaland Rheumatological diseases problems.

A2- Interpret differential diagnosis of Endocrinal;GIT;Hepatobiliary; Nutritional and Rheumatological diseasesclinical problems presenting todoctors in primary health care setting, hospital and community, with emphasis on early manifestations of serious diseases (e.g., malignancy) and emergencies.

A3- Correlate the risk factors , outcomes and treatment options of common clinical problems related to the field of Endocrinal;Gastroentrolgiac;l;Hepatobiliary;Nutritional and Rheumatological diseases

A4- Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.

A5- Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.

A6- Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with common Endocrinal;GIT;Hepatobiliary;Nutritionaland;Rheumatological diseasesillnesss both acute and chronic.

C- Clinical skills By the end of the course, students should be able to:

C1- Obtain and record informative history.

C2-Examinethe patients systematically appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.

C3- Design and /or present a structured, patient centered history and an appropriately timed full physical examination of patients.

C4- Show how to use peripheral venous cannula,urethral catheter;,ryles tube insertion and syngestaken tube insertion.

C5- Apply measures that promote patient safety.

C6. Apply suitable measures for infection control when dealing with the patients and instruments.

C7- Conduct patient-focused care while working with health care professionals.

D- Generic and transferable skills

D1- Perform practice-based improvement activities using portfolio.

D2- Practice effectively using a written health record, electronic medical record, or other digital technology

D3-Display effective communication with patients, their families and community through proper verbal and written means, respecting their beliefs and level of education.

D4- Display respect, compassion, and integrity; a responsiveness to the needs of patients and society.

D5- Display a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent.

D6- Work effectively with others as a member of team work by acting in small group.

D7- Display adequate cooperation with his/her colleagues

D8- Arrange the efforts required to accomplish the tasks in specified time.

D9- Verify the use of sources of biomedical information to remain current with advances in knowledge and practice.

D10- Share in the work efficiently in responsible manner keeping the Instruments and Equipment of the Department intact and clean.

D11-Adhere to the basic ethical and medicolegal principles that should be applied in practice.

D12- Describe his/her work and that of others using constructive feedback.

D13-Present regular reflection on and assess his/her performance using various performance indicators and information sources.

D14- Initiate a personal learning plan to enhance professional practice

D15- Identify opportunities and use various resources for learning.

D16- Integrate in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.

D17- Organize learning time and resources and set priorities

D18- Display accountability to patients, society, and the profession.

Learning Methods

- 1- Lectures for knowledge outcomes.
- 2- Practical (Bedside/skill lab)sessions to gain clinical skills
- 3-Task based log. (may use inscion academy/clinical key cases)
- 4- Group discussions(Case – based)

Block Contents (Medicine II)

Lecture Topics and Their Intended Learning Outcomes

Choose One Source for Each Topic

No.	Lectures Titles And Specified References	ILOs	Contact Hours
1	Introduction to gastrointestinal diseases (including symptoms and investigations) Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1	2
2	Gastroesophageal reflux disease Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
3	Gastritis and peptic ulcer disease Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
4	Gastrointestinal bleeding (upper and lower) Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
5	Inflammatory bowel disease Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
6	Functional gut disorders Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
7	Pancreatitis Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
8	Malabsorption syndrome Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
9	Introduction to liver diseases Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
10	Jaundice Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
11	Liver cirrhosis Kumar & Clark's Clinical Medicine, 10 th edition	A1-A6	1

	Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	
12	Portal hypertension Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
13	Ascites and spontaneous bacterial peritonitis (SBP) Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
14	Hepatic encephalopathy and acute liver failure Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
15	Non-alcoholic fatty liver disease (NAFLD) Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
16	Autoimmune liver diseases Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
17	Metabolic liver diseases Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
18	Hepatocellular carcinoma Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
19	Diabetes mellitus (classification& diagnosis). Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
20	Acute complications of DM Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
21	Chronic complications of DM Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
22	Management of DM Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
23	Rheumatoid arthritis Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
24	Systemic lupus erythematosus Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
25	Seronegative spondyloarthropathy Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
26	Systemic sclerosis Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
27	Crystal-induced arthropathy Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
28	Vasculitis Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	2
29	Obesity Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
30	Dyslipidemia Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1

31	Fat-soluble vitamins Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
32	Water-soluble vitamins Kumar & Clark's Clinical Medicine, 10 th edition Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
	Total		41 Hours

Lecture Topics in Tropical Medicine

No	Lectures Titles And Specified References	ILOs	Contact hours
1	Emerging infections including COVID-19 and Mpox Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. Kamps & Hoffmann. Covid Reference 2020, 6 th edition.	A1-A6	1
2	Acute viral hepatitis (A→E) Sherlock's Diseases of The Liver and Biliary System. 13 th edition. Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. Davidson's Principles and Practice of Medicine 23 rd edition.	A1-A6	1
3	Introduction to fevers and PUO Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. Kumar & Clark's Clinical Medicine, 10 th edition. Davidson's Principles and Practice of Medicine 23 rd edition.	A1-A6	1
4	Infectious mononucleosis & Toxoplasmosis Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.	A1-A6	1
5	Schistosomiasis and abdominal tuberculosis Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.	A1-A6	1
6	Brucellosis Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine. Malaria Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.	A1-A6	1
7	Infectious jaundice and leptospirosis Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine. Davidson's Principles and Practice of Medicine 23 rd edition. Intestinal nematodes Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine. Davidson's Principles and Practice of Medicine 23 rd edition.	A1-A6	1
8	HIV and Opportunistic infections Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition.	A1-A6	1

	Davidson's Principles and Practice of Medicine 23 rd edition.		
9	Chronic hepatitis Sherlock's Diseases of The Liver and Biliary System. 13 th edition. Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. Davidson's Principles and Practice of Medicine 23 rd edition	A1-A6	1
10	H. pylori infection Davidson's Principles and Practice of Medicine 23 rd edition. Antimicrobial chemotherapy	A1-A6	1
11	Hydatid liver disease Nick Beeching Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition USMLE Step 2 CK Lecture Notes (2019), Internal Medicine. Liver abscess (pyogenic, amoebic)	A1-A6	1
12	Tetanus and Rabies Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition USMLE Step 2 CK Lecture Notes (2019), Internal Medicine	A1-A6	1
13	Typhoid fever Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition USMLE Step 2 CK Lecture Notes (2019), Internal Medicine Heat induced disorders USMLE Step 2 CK Lecture Notes (2019), Internal Medicine. Davidson's Principles and Practice of Medicine 23 rd edition.	A1-A6	1
14	Introduction to acute infectious diarrhea Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7 th edition. USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.	A1-A6	1
	Total	14 hours	

Medicine II (case scenario)

No.	Title of cases and reference	ILOs	Hour
1	Case 1 Rheumatoid arthritis USMLE step2 CK Internal Medicine lecture notes	C1-C7 D1-D18	3
2	Case 2 Systemic lupus erythematosus USMLE step2 CK Internal Medicine lecture notes	C1-C7 D1-D18	3
3	Case 3 Scleroderma USMLE step2 CK Internal Medicine lecture notes	C1-C7 D1-D18	3
4	Case 4 Acute gout USMLE step2 CK Internal Medicine lecture notes	C1-C7 D1-D18	3
5	Case 5 Gastritis and peptic ulcer Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
6	Case 6 GERD Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
7	Case 7 GIT bleeding Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3

8	Case 8 IBD Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
9	Case 9 Jaundice Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
	Edition		
10	Case 10 Hepatic encephalopathy AMBOSS	C1-C7 D1-D18	3
11	Case 11 Ascites AMBOSS	C1-C7 D1-D18	3
12	Case 12 Introduction to fever and PUO, Leptospirosis Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
13	Case 13 Acute hepatitis, Typhoid fever Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
14	Case 14 Amoebic liver abscess, Hydatid cyst Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
15	Case 15 Bacillary dysentery, Abdominal TB Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	C1-C7 D1-D18	3
	Total		45

Medicine II

Blueprint of the block

No.	List of topics (Lecture s/cases)	Total Marks	Final written exam	Midterm exam
			75%MCQ & 25% Short answer and modified essay Qs.	
1	Introduction to gastrointestinal diseases (including symptoms and investigations)	6 marks	-----	5 marks
2	Gastro-esophageal reflux disease	3 marks	1 mark	2 marks
3	Gastritis and peptic ulcer disease	4 marks	2 marks	2 marks
4	Gastrointestinal bleeding (upper and lower)	6 marks	1 marks	5 marks
5	Inflammatory bowel disease	6 marks	1 marks	5 marks
6	Functional gut disorders	6 marks	2 marks	4 marks
7	Pancreatitis	4 marks	1 mark	3 marks
8	Malabsorption syndrome	4 marks	1 mark	3 marks
9	Introduction to liver diseases	4 marks	-----	4 marks

10	Jaundice	4 marks	2 mark	2 marks
11	Liver cirrhosis	3 marks	1 mark	2 marks
12	Portal hypertension	3 marks	1 mark	2 marks
13	Ascites and spontaneous bacterial peritonitis (SBP)	4 marks	2 marks	2 marks
14	Hepatic encephalopathy and acute liver failure	3 marks	1 mark	2 marks

15	Non-alcoholic fatty liver disease (NAFLD)	3 marks	1 mark	2 marks
16	Autoimmune liver diseases	3 marks	3 marks	-----
17	Metabolic liver diseases	4 marks	4marks	-----
18	Hepatocellular carcinoma	3 marks	3 marks	-----
19	Diabetes mellitus (Classification& diagnosis).	6 marks	6 mark	-----
20	Acute complications of DM	4 marks	4 marks	-----
21	Chronic complications of DM	6 marks	6 mark	-----
22	Management of DM	6 marks	6 mark	-----
23	Rheumatoid arthritis	6 marks	6 marks	-----
24	Systemic lupus erythematosus	5 marks	5 marks	-----
25	Seronegative spondyloarthropathy	4 marks	4 marks	-----
26	Systemic sclerosis	3 marks	3 marks	-----
27	Crystal-induced arthropathy	4 marks	4 marks	-----
28	Vasculitis	5 marks	5 marks	-----
29	Obesity	3 marks	3 marks	-----
30	Dyslipidemia	3 marks	3 marks	-----
31	Fat-soluble vitamins	4 marks	4 marks	-----
32	Water-soluble vitamins	4 marks	4 marks	-----
	Total	138 marks	90 marks	45 marks

No	List of topics (Lectures/cases)	Total Marks	Final exam		Mid term exam
			MCQ	Short answer and modified essay Qs.	
1	Emerging infections including COVID-19 and Mpox	3 marks	1 mark	-----	2 marks
2	Acute viral hepatitis (A→E)	3 marks	1 marks	-----	2 marks
3	Introduction to fevers and PUO	3 marks	1 mark	-----	2 marks

4	Infectious mononucleosis & Toxoplasmosis	3 marks	3 marks	-----	-----
5	Schistosomiasis and abdominal tuberculosis	3 marks	3 marks	-----	-----
6	Brucellosis Malaria	3 marks	2 marks	-----	1 marks
7	Infectious jaundice and leptospirosis Intestinal nematodes	4 marks	-----	2 marks	2 marks
8	HIV and Opportunistic infections	3 marks	1 marks	2 marks	-----
9	Chronic hepatitis	4 marks	1 marks	3 marks	-----
10	H. pylori infection Antimicrobial chemotherapy	3 marks	3 marks	-----	-----
11	Hydatid liver disease Liver abscess (pyogenic, amoebic)	3 marks	1 marks	-----	2 marks
12	Tetanus and Rabies	3 marks	2 marks	-----	1 mark
13	Typhoid fever Heat induced disorders	3 marks	3 marks	-----	-----
14	Introduction to acute infectious diarrhea	4 marks	1 marks	1 mark	2 marks
	Total	45 marks	30 marks		15 marks

Blueprint of practical exam

	List of skills	NO of stations	Marks of OSCE
1	History taking and examination of peptic ulcer	1	5
2	History taking and examination of GERD	1	5
3	History taking and examination of IBD	1	5
4	History taking and examination of GIT bleeding	1	5
5	Hepatic caes history and examination; investigations.	1	5
6	History taking and examination of jaundice	1	5
7	How to detect ascities by various techniques (shifting dullness, transmitted thrill, buddle sign .)	1	5
8	How to evaluate patient with hepatic encephalopathy	1	5
9	History taking skills in rheumatology	1	5
10	Approach to a patient with poly and mono arthritis	1	5
11	History taking and examination of rheumatoid arthritis	1	5
12	History taking and examination of SLE	1	5
13	History taking and examination of scleroderma	1	5
14	History taking and examination of acute gout	1	5
15	Introduction to fever and PUO, Leptospirosis case scenarios	1	5
16	Acute hepatitis, Typhoid fever case scenarios	1	5
17	Amoebic liver abscess, Hydatid cyst case scenario	1	5
18	Bacillary dysentery, Abdominal TB case scenarios	1	5
	Total	18 stations	90

الدور الثاني

Exam	Int.Medicine II	Tropical Medicine	Total
Final (60%)	Wt.% 74.6%	Wt.% 25.4%	100%
MCQ	100 M	35 M	135
المقالى	34 M	11M	45
Total final written	134 M	46 M	180 M
Practical (40%)	77.7% 93 M	23.3% 27 M	120M

Lecture Outlines

Lecture Topics in Internal Medicine

Lectures (1) Gastrointestinal symptoms

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1- Understand the medical causes of acute abdomen.
- 2-Discuss the etiology and diagnosis of the different gastrointestinal symptoms

Contents:

- 1-Causes and clinical assessment of medical causes of Acute abdomen.
- 2-Causes and clinical assessment of vomiting.
- 3-Causes and clinical assessment of diarrhea.
- 4-Causes and clinical assessment of constipation.
- 5-Causes and clinical assessment of dyspepsia and epigastric pain.

Lectures (2) GERD

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

By the end of the lecture the student will be able to:

- 1- Describe diagnostic approaches to the evaluation of dysphagia
- 2- Discuss typical symptoms, atypical symptoms, alarm symptoms, aggravating factors and complications associated with GERD.

Contents

- Definition
- Etiology and pathogenesis
- Clinical picture
- Complications
- Investigations
- Treatment

Lectures (3) Gastritis and peptic ulcer

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Compare the etiology, clinical presentation, and management of acute gastritis and chronic gastritis.
- 2-Understand pathophysiology of PUD.
- 3-Recognize the risk factors and typical presentation of peptic ulcer disease.
- 4-Management of gastritis and PUD.

Contents:

- 1-Definition
- 2-Etiology and pathogenesis
- 3- Different types of gastritis
- 4-Clinical presentation
- 5- Diagnosis and investigations
- 6- Complications
- 7- Treatment

Lectures (4) Upper &lower Gastrointestinal bleeding

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Different types and causes of GIT bleeding
- 2-How to manage a case of GIT bleeding

Content

- 1- Define hematemesis, melena ,hematochezia ,occult GIT bleeding
- 2- Variceal non variceal causes of upper git bleeding .
- 3-Causes of lower GIT bleeding .
- 4-Clinical assessment of upper gastrointestinal bleeding (Rockall risk scoring)
- 5-Initial management of GIT Bleeding.
- 6-Later management of GIT Bleeding (medical ,endoscopic , surgical ,radiological intervention).

Lecture (5) Inflammatory Bowel Disease

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Define inflammatory bowel disease
- 2-Differentiate between ulcerative colitis and chrons disease

3- Outline the management of IBD

Contents:

- 1-Definition
- 2-Prevalence
- 3-Pathogenesis
- 4-Clinical picture
- 5-Investigations
- 6-Complications
- 7-Treatment
- 8-IBD mimics (Infective and noninfective causes)

Lecture (6) Functional gut disorders

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Understand the diagnosis of IBS
- 2-List the diagnostic approach of noninfectious diarrhea .

Content

1-Irritable bowel syndrome

- Pathophysiology
- Clinical picture
- Subtypes
- Diagnosis
- Differential diagnosis
- Treatment

- Red flag symptoms

2- Noninfectious diarrhea

- Etiology
- Diagnostic approach
- Treatment

Lecture (7) Pancreatitis

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Recognize the presentation and risk factors of acute pancreatitis .
- 2-Understand the management and the complications of acute pancreatitis.
- 3- Discuss the diagnostic approach for chronic pancreatitis

Contents

1-Acute pancreatitis

- Etiology
- Pathophysiology
- Clinical picture
- Diagnosis
- Differential diagnosis
- Treatment

- Complications

- Prognosis

2-Chronic pancreatitis

- Etiology
- Clinical picture

- Diagnosis
- Treatment

Lectures (8) Malabsorption syndrome

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

- 1-Causes of gastrointestinal malabsorption
- 2-Sites of gastrointestinal absorption of different minerals and vitamins

Content

- 1-Causes (infectious – non infectious) and manifestations of Malabsorption.
- 2-Identify Eating disorders(define anorexia nervosa , bulimia nervosa)
- 3-Celiac disease (etiology – prevalence -clinical presentation -investigation -treatment - complications)
- 4- Notes on some vitamins deficiency disorders scurvy ,beriberi, pellagra, xerophthalmia
- 5-Refeeding syndrome (definition , how to avoid)

Lecture (9) Introduction to liver diseases

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

- 1-Understand and Interpret liver function tests .

Contents

- 1-Parameters of hepatocellular injury.
- 2-Parameters of cholestasis .
- 3-Parameters of liver synthesis .

Lecture (10) Jaundice

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

- 1-Define jaundice, and its types
- 2-Describe epidemiology, risk factors, clinical presentations, differential diagnosis investigation and management of all types of jaundice

Contents

- 1-Definition
- 2-Epidemiology
- 3-Etiology
- 4-Pathogenesis
- 5-Clinical features
- 6-Differential diagnosis
- 7-Diagnosis
- 8-Management.

Lecture (11) Liver cirrhosis and Complications

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

- 1-Define liver cirrhosis
- 2- Describe causes, clinical presentations, investigations and management of liver cirrhosis and its complications.

Contents:

- 1-Definition.
- 2-Causes.

- 3-Signs & symptoms.
- 4-Tests for diagnosis and treatment of liver cirrhosis.
- 5-Definition and manifestation of acute and chronic liver cell failure.
- 6-Define and manage complications (Hepatocellular carcinoma, Ascites and portal hypertension).

Lecture (12) Portal hypertension

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Discuss the causes and clinical picture of portal hypertension.

Contents

1-Portal hypertension

- Definition
- Etiology
- Clinical picture
- Diagnosis
- Treatment
- Complications
- Esophageal variceal hemorrhage

Lecture (13) Ascites and spontaneous bacterial peritonitis

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

Understand the diagnosis and management of ascites, Spontaneous bacterial peritonitis and Hepatorenal syndrome.

Contents

- Etiology
 - Pathophysiology
 - Clinical picture
 - Subtypes and variants
 - Diagnosis
 - Classification
 - Treatment
 - Complications
- 3-Spontaneous bacterial peritonitis
 - 4-Types and management of Hepatorenal syndrome

Lecture (14) Hepatic encephalopathy, acute liver failure

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Describe precipitating factors, classification and management of hepatic encephalopathy
- 2-Describe causes, clinical presentations and investigations of fulminant hepatitis
- 2- Discuss treatment and predict prognosis of Fulminant hepatitis

Contents:

- 1-Etiology
- 2-Pathophysiology
- 3-Clinical picture

- 4-Diagnosis
- 5-Treatment
- 6-Complications
- 7-Prognosis

Lecture (15) Nonalcoholic fatty liver diseases

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

By the end of the lecture the student will be able to :

Risk factors, diagnosis and management of nonalcoholic liver diseases

Content

Definition

Diagnosis

Complications

Management

Lecture (16) Autoimmune liver disease

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

1-List the Etiology and management of autoimmune liver diseases .

Content

- Autoimmune hepatitis

- Etiology
- Clinical picture
- Diagnosis
- Differential diagnosis
- Treatment

Primary biliary cholangitis

- Clinical picture
- Diagnosis
- pathology
- Treatment

Primary sclerosing cholangitis

- Clinical picture
- Diagnosis
- Differential diagnosis
- Treatment

Lecture (17) Metabolic liver disease

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1.List types of metabolic liver diseases
- 2.Pathogenesis and treatment of each type

Contents

- 1.Definition, prevalence, risk factor, complication, management of non alcoholic fatty liver, non alcoholic steatohepatitis
- 2.Pathogenesis, clinical manifestations, and management of Wilson disease

3.Pathogenesis, and management of hereditary hemochromatosis.

Lecture (18) Hepatocellular carcinoma

- Kumar & Clark's Clinical Medicine, 10th edition
- Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

List benign and malignant focal lesions of the liver

Screening, diagnosis, staging and lines of HCC management

Contents

1-HCC

1. Epidemiology
2. Screening
3. Diagnosis
4. Staging
5. Lines of treatments

Lecture (19) Diabetes Mellitus (diagnosis and classification)

Kumar & Clark's clinical medicine. 10th edition

Davidson's principles and practice of medicine 23th edition

Specific learning Objectives

By the end of the lecture the student will be able to:

- Identify classification of DM and how to differentiate between TYPE 1 DM and TYPE 2 DM.
- Discuss diagnosis of DM.

Contents:

- Definition.
- Classification of DM.
- Diagnosis of DM.

Lecture (20) Acute complications of Diabetes Mellitus

Kumar & Clark's clinical medicine. 10th edition

Davidson's principles and practice of medicine 23th edition

Specific learning Objectives:

By the end of the lecture the student will be able to:

- Identify symptoms and diagnosis and management of DKA.
- Identify symptoms and diagnosis and management of HONK.
- Discuss symptoms of hypoglycemia and treatment.

Contents:

- DKA: clinical manifestation, diagnosis and management.
- HONK: clinical manifestation, diagnosis and management.
- Hypoglycemia.

Lecture (21) Chronic complications of DM

Kumar & Clark's clinical medicine. 10th edition

Davidson's principles and practice of medicine 23th edition

Specific learning Objectives

By the end of the lecture the student will be able to:

- Identify complications of DM.
- Identify prevention and management of diabetic foot.
- Discuss diagnostic approach and management to a case of diabetic nephropathy.

Contents:

- Diabetic complications: Retinopathy and Neuropathy.
- Diabetic foot care.
- Diabetic nephropathy diagnosis and treatment.

Lecture (22) Management of DM

Kumar & Clark's clinical medicine. 10th edition

Davidson's principles and practice of medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to:

- Identify insulin treatment and common insulin regimens.
- Identify different lines of oral hypoglycemic drugs.

Contents:

- Approach to management of DM.
- Oral hypoglycemic drugs.
- Insulin treatment.

Lectures (23) Rheumatoid arthritis:

- Kumar & Clark's Clinical Medicine, 10th edition

-Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Know the pathogenesis and the diagnostic approach for a case of rheumatoid arthritis
- Detect the main lines of management of rheumatoid arthritis -

Contents:

- Definition and pathogenesis
- Clinical findings
- Laboratory diagnosis and imaging
- Complications
- Differential diagnosis
- Treatment

Lectures (24) Systemic lupus erythematosus

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Realize the pathogenesis and various signs and symptoms of systemic lupus -
- Identify classification criteria for systemic lupus and its update
- Know the different lines of management of systemic lupus

Contents:

- Definition and epidemiology of SLE
- Pathogenesis of SLE
- Clinical picture
- Laboratory findings
- Classification criteria
- Treatment

Lecture (25) Seronegative spondyloarthropathy

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Define seronegative spondyloarthropathies and their different types

- Realize how to diagnose a case with inflammatory back pain
- Detect different drugs used to treat seronegative spondyloarthropathies

Contents:

- Definition
- Classification
- Ankylosing spondylitis
- Reactive arthritis
- Enteropathy spondylarthritis
- Psoriatic arthritis
- Management

Lecture (26) Systemic sclerosis

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Differentiate between systemic sclerosis and limited scleroderma
- Detect the clinical and laboratory findings of scleroderma
- Define the basic lines of management based on different presentations

Contents:

- Clinical picture
- Investigations
- Scleroderma mimics and types
- Complications
- Treatment

Lecture (27) Crystal induced arthropathies

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Define crystal induced arthropathies and realize their different types
- Detect the clinical picture of gout and its differences from pseudogout
- Recognize laboratory and radiological findings in different stages of gout
- Know the therapeutic approach of different stages of gout

Contents:

Definition and types.

Gout:

- Definition
- Epidemiology
- Pathogenesis and etiology
- Clinical picture
- Investigations
- Treatment
- Highlights on differences between gout and **pseudogout**

Lecture (28) Vasculitis

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Define vasculitis and recognize its type and clinical picture
- Detect investigations needed to diagnose a case of vasculitis
- Detect the principle lines of management

Contents:

- Definition
- Types and clinical features of each type
- Investigations
- Management

Lecture (29) Obesity:

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Know the pathogenesis and the diagnosis for a case of obesity
- Detect the main lines of management of obesity

Contents:

- Definition
- pathogenesis
- BMI calculations and interpretation
- Nutrition requirement and assessment
- Risks of overweight
- complications
- lifestyle modification
- Drug therapy
- Bariatric surgery

Lecture (30) Dyslipidemia:

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Know the pathogenesis and the diagnosis for a case of dyslipidemia
- Detect the main lines of management of dyslipidemia

Contents:

- pathogenesis
- diagnosis
- treatment

Lecture (31) water soluble vitamins:

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Know the water soluble vitamins and its importance
- detect the diseases caused by its deficiency

Content

- water soluble vitamins
- diseases caused by deficiency of each one of them
- treatment of vitamin deficiency

Lecture (32) Fat soluble vitamins:

Kumar & Clark's Clinical Medicine, 10th edition

Davidson's Principles and Practice of Medicine 23rd edition

Specific learning Objectives:

By the end of the lecture the student will be able to :

- Know the fat soluble vitamins and its importance

-detect the diseases caused by its deficiency

Content

-Fat soluble vitamins

-diseases caused by deficiency of each one of them

- treatment of vitamin deficiency

Lecture Topics in Tropical Medicine

1-Emerging infections including COVID-19 and Mpox

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Kamps& Hoffmann. Covid Reference 2020, 6th edition.

a- Emerging infections

Specific Learning Objectives:

By the end of the lecture the student will be able to:

1-Describe the definition, epidemiology, and classification of emerging infections, and factors contributing to disease emergence.

Contents:

1- Definition

2- Epidemiology

3- Classification

4- Factors contributing to disease emergence

b- COVID-19

Specific Learning Objectives:

By the end of the lecture the student will be able to:

1-Describe the aetiology, clinical features, diagnosis, complication, and treatment of COVID-19.

Contents:

1-Aetiology

2-Pathogenesis

3-Clinical features

4-Diagnosis

5-Complications

6-Management

7-Prevention.

c- Mpox

Specific Learning Objectives:

By the end of the lecture the student will be able to:

Describe the aetiology, clinical features, diagnosis, complication, and treatment of Mpox.

Contents:

1- Epidemiology

2- Clinicalfeature

3- Diagnosis

4- Prevention.

5- Treatment

2- Acute viral hepatitis

Sherlock's Diseases of The Liver and Biliary System. 13th edition.

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Davidson's Principles and Practice of Medicine 23rd edition.

Specific Learning Objectives:

By the end of the lecture the student will be able to:

- 1-List the causes of acute viral hepatitis.
- 2-Identify the mode of transmission of Hepatitis A, E and B, C, D.
- 3-Describe the clinical manifestation of acute viral hepatitis, risk factors, diagnosis, prognosis and prevention.

Contents:

- 1-Causes of acute viral hepatitis.
- 2-The mode of transmission of Hepatitis A, E and B, C, D.
- 3-Clinical picture of acute viral hepatitis.
- 4-Comparision between Hepatitis A, E and B, C, D.
- 5-Diagnosis of acute viral hepatitis.
- 6- Fate and prognosis of Hepatitis A, E and B, C, D.
- 7-Prevetion and treatment.

3-Introduction to fevers

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Kumar & Clark's Clinical Medicine, 10th edition.

Davidson's Principles and Practice of Medicine 23rd edition.

Specific learning Objectives:

By the end of the lecture the student will be able to:

1-Define fever and recognize Pattern of pyrexia (Course) and their common causes.

2-Do focused history and examination in case of fever.

Contents:

1- Definition of fever or Pyrexia

2- Causes of fever

3- Symptoms common in most febrile diseases

4- Pattern of pyrexia (Course)

5- Types of Onset of pyrexia

6- Types of Offset of pyrexia

7- Differential Diagnosis of common febrile association

8-General investigations for a patient with suspected infection

4-Pyrexia of Unknown Origin(PUO)

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Kumar & Clark's Clinical Medicine, 10th edition.

Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

2- Define PUO and List its causes.

3- Understand the diagnostic approach of PUO.

Contents:

1-Definition.

2-Causes.

3-Prerequisites to establish PUO.

4-Classification.

5-Diagnostic approach of PUO.

6-Management.

5--Infectious mononucleosis

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

1-Describe the epidemiology, clinical features, diagnosis, complication and treatment of Infectious Mononucleosis.

Contents:

Infectious Mononucleosis

1-Epidemiology

2-Etiology

3-Clinical features

4-Diagnostics

5-Differential Diagnosis

6-Complications

7-Treatment

6-Toxoplasmosis

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

1- Describe the epidemiology, clinical features, diagnosis and treatment of toxoplasmosis.

Contents:

For each of the following:

- 1- Organism and Epidemiology
- 2- Mode of transmission
- 3- Clinical manifestation
- 4- Diagnosis
- 5- Treatment

7- Schistosomiasis

Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7th edition
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

- 1- Recognize different types of Schistosomiasis and describe the epidemiology, clinical features, diagnosis, complication and treatment of Schistosomiasis.

Contents:

For each of the following:

- 1- Organism and Epidemiology
- 2- Mode of transmission
- 3- Clinical manifestation
- 4- Diagnosis
- 5- Treatment
- 6- Prevention

8- Abdominal tuberculosis

Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7th edition
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine

By the end of the lecture the student will be able to:

- 1- Describe the etiology, and types (spectrum) of GIT Tuberculosis
- 2- Describe the clinical picture, diagnosis of intestinal TB and TB ascites.

Contents:

- 1- Epidemiology and route of infection.
- 2- GIT Spectrum.
- 3- Intestinal TB (TB Enterocolitis).
- 4- TB ascites
- 5- Clinical manifestation
- 6- Diagnosis
- 7- Treatment

9- Brucellosis

Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

- 1- List the high risk groups for brucellosis.
- 2- Describe the etiology, clinical features, diagnosis, and treatment of brucellosis.

Contents:

- 1- Definition
- 2- Etiology
- 3- Transmission:
- 4- Risk factors
- 5- Pathophysiology
- 6- Clinical features

7-Diagnosis
8-Treatment

10- Malaria

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

1-Describe the mode of transmission, clinical features, diagnosis and management of Malaria

Contents:

- 1-Epidemiology
- 2-mode of transmission.
- 3-Clinical features.
- 4-Diagnosis
- 5-Treatment

11- Infectious jaundice

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.
Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

1-Describe the aetiology, clinical features, diagnosis and management of Infectious jaundice.

Contents:

- 1-Aetiology.
- 2-Clinical features.
- 3-Diagnosis

12- leptospirosis

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.
Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

1-Describe the aetiology, clinical features, diagnosis and management of Leptospirosis.

Contents:

- 1-Aetiology.
- 2-Clinical features.
- 3-Diagnosis
- 4-Treatment

13-Intestinal nematodes

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.
Davidson's Principles and Practice of Medicine 23rd edition.

Specific learning Objectives:

By the end of the lecture the student will be able to:

- 1-Describe types, clinical presentations and investigations of intestinal nematodes
- 2- Discuss treatment of each type.

Contents:

- 1-Enterobiasis.
- 2-Ascaris lumbricoides
- 3-Ancylostomiasis
- 4-Strongyloidiasis

14- HIV and Opportunistic infections

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

- 1-Identify the epidemiology and route of transmission of HIV
- 2-Describe the clinical features and stages of infection with HIV.
- 3-List opportunistic infection in AIDS patients.

Contents

- 1-Epidemiology
- 2-Etiology of the pathogen, and route of transmission.
- 3-Pathophysiology, natural history of the virus, and the role of the immune response.
- 4-Clinical features (acute HIV infection, clinical latency and AIDS.
- 5- Stages: CDC & WHO classifications.
- 6-Diagnostic HIV testing.
- 7-Treatment.
- 8- Opportunistic infection in AIDS patients

15- Chronic viral hepatitis

Sherlock's Diseases of The Liver and Biliary System. 13th edition.

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.

Davidson's Principles and Practice of Medicine 23rd edition

a-Chronic hepatitis B

By the end of the lecture the student will be able to:

- 1-Identify the mode of transmission of hepatitis B and who at risk for infection.
- 2- Outline the natural history of Hepatitis B.
- 3- Interpret serologic marker of hepatitis B.
- 4- Discuss treatment of chronic hepatitis B and prevention.

Contents:

- 1-Definition of chronic HBV.
- 2- Epidemiology.
- 3-Mode of transmission.
- 4-Hepatitis B: Who is at Risk?
- 5-Natural history of HBV infection.
- 6-Serologic marker interpretation.
- 7-Treatment of chronic HBV.
- 8-Prevention of HBV infection.

b-Chronic Hepatitis C

By the end of the lecture the student will be able to:

- 1-Identify the mode of transmission of hepatitis C and who at risk for infection.
- 2- Outline the natural history of Hepatitis C.
- 4- List drug therapy of chronic hepatitis C.

Contents:

- 1-Definition of chronic C.
- 2- Epidemiology.
- 3-Mode of transmission.
- 4-Hepatitis C: Who is at Risk?
- 5-Natural history of HCV infection.
- 6-Diagnosis of chronic Hepatitis C

7-Treatment of chronic Hepatitis C

16- H. pylori infection

Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

1-List the diseases caused by H. pylori and methods of diagnosis and antibiotic of choice for treatment of H. pylori.

Contents:

- 1-Reservoir
- 2-Characteristic
- 3-Virulence factors and resistance
- 4-Diseases
- 5-Diagnosis
- 6-Treatment

17- Antimicrobial chemotherapy

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

- 1- Outlines the principals of choice of Antimicrobial.
- 2-Describe Empiric Antimicrobial Therapy.

Contents:

- 1-Different Antibiotics classes and their mechanism of action.
- 2-Indications of different antibiotics

18- Hydatid liver disease

Nick Beeching Geoff Gill. Tropical Medicine Lecture Notes. 7th edition

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to: 1-Recognize the epidemiology, clinical features, diagnosis, complication and treatment of hydatid liver disease .

Contents:

- 1- Organism and Epidemiology
- 2-Mode of transmission
- 3-Clinical manifestation
- 4-Diagnosis
- 5-Treatment
- 6-Prevention

19- Liver abscess (pyogenic, amoebic)

Nick Beeching Geoff Gill. Tropical Medicine Lecture Notes. 7th edition

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

1-Recognize the aetiology, clinical features, diagnosis, complication and treatment of Liver abscess (pyogenic, amoebic) .

Contents:

- 1- Organisms
- 2-Mode of transmission
- 3-Clinical manifestation
- 4-Diagnosis
- 5-Treatment
- 6-Prevention

20- Tetanus

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine

By the end of the lecture the student will be able to:

- 1- Describe the clinical picture, diagnosis , and treatment of Tetanus.
- 2- Identify tetanus prophylaxis after injury.

Content:

Tetanus

- 1-Definition
- 2-Aetiology
- 3- Types of wounds.
- 4- Clinical features and subtypes.
- 5-Treatment
- 6-Prevention

21- Rabies

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine

By the end of the lecture the student will be able to:

- 1-Describe the clinical picture, diagnosis , and treatment of Rabies.
- 2-Identify Post-exposure prophylaxis against Rabies.

Content:

Rabies:

- 1-Definition
- 2-Pathology
- 3-Clinical picture
- 4-Diagnosis
- 5-Treatment
- 6-Control
- 7-Prognosis

22- Typhoid fever

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine

By the end of the lecture the student will be able to:

- 1-Describe the aetiology, clinical picture, diagnosis, complications and treatment of typhoid.

Contents:

- 1-Epidemiology.
- 2-Aetiology.
- 3-Pathophysiology.
- 2-Clinical features.
- 3-Diagnosis.
- 4-Complications.
- 5.Treatment.

23- Heat induced disorders

USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.
Davidson's Principles and Practice of Medicine 23rd edition.

By the end of the lecture the student will be able to:

- 1-Recognize different types of heat disorders
- 2-Describe the clinical features risk factors, complications and

management of heat stroke.

3- Describe the clinical features , diagnosis, and treatment of Hypothermia.

Contents:

A-Heat stroke

1-Definition of

2-Risk factors

3-Clinical manifestations

4-Complications

5-Treatment

6-Prevention

B-Heat Exhaustion

C-Heat Syncope

D-Heat Cramp

E-Heat oedema

F-Prickly heat

23- Acute infectious diarrhea

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7th edition.
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.

By the end of the lecture the student will be able to:

1- List the causes and management of infectious diarrhea.

2- Describe the clinical features of pseudomembranous colitis.

Contents:

1-Causes of acute infectious diarrhea.

2-Treatment of infectious diarrhea.

3- Pseudomembranous colitis

**Outlines of topics for self directed learning and
case based discussions**

Case(1) Rheumatoid arthritis

USMLE step2 CK Internal Medicine lecture notes, chapter 3 p 188

Specific learning Objectives:

By the end of the lecture the student will be able to :

1- Integrate the results of history, physical examination and laboratory

7- findings into a meaningful diagnostic formulation.

2-Select the appropriate investigations.

3-Construct appropriate management regarding a case with rheumatoid arthritis

Case(2) Systemic lupus erythematosus

USMLE step2 CK Internal Medicine lecture notes, chapter 3 p 200

Specific learning Objectives:

By the end of the lecture the student will be able to :

1- Integrate the results of history, physical examination and laboratory findings into a meaningful diagnostic formulation.

2-Select the appropriate investigations.

3-Construct appropriate management of systemic lupus cases

Case(3) Scleroderma

USMLE step2 CK Internal Medicine lecture notes, chapter 3 p205

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1- Integrate the results of history, physical examination and laboratory findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management regarding cases of systemic sclerosis

Case(4) Gout

USMLE step2 CK Internal Medicine lecture notes, chapter 3 p 228

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1- Integrate the results of history, physical examination and laboratory findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management regarding cases of gout and pseudogout

Case(5) Gastritis and peptic ulcer

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3 1st Edition Chapter 5 Case 4 (p 291)

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-appropriate management algorithm (both diagnostic and therapeutic) for patients with gastritis

Case(6) GERD

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3 1st Edition Chapter 5 Case 3 (p 286)

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1- Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2- Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with GERD.

Case(7) GIT bleeding

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3 1st Edition chapter 5Case 1 (p 273)

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations and treatment
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with GIT bleeding .

Case(8) IBD

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3 1st Edition Chapter 5 Case 6 (p 301)

Specific learning Objectives:

By the end of the lecture the student will be able to :

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.

3-Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with IBD

Case(9) Jaundice

First aid For the USMLE STEP2 CS Case 21 page:323

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2- Select the appropriate investigations.
- 3- Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with Jaundice.

Case(10) Hepatic encephalopathy

AMBOSS

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1- Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2- Select the appropriate investigations.
- 3- 3- Construct appropriate management algorithm (both diagnostic and
- 4- therapeutic) for patients with hepatic encephalopathy.

Case (11) Ascites

AMBOSS

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Select the appropriate investigations. Integrate the results of history, physical examination, laboratory test findings into a meaningful Diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with ascites.

Case (12) PUO

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition.

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with PUO .

Case (13) Leptospirosis

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with leptospirosis .

Case (14) Acute hepatitis

Specific learning Objectives:

By the end of case discussion the student will be able to

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic patients with acute hepatitis.

Case (15) Typhoid fever

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with typhoid fever

Case (16) Amoebic liver abscess

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with Amoebic liver abscess

Case (16) Hydatid cyst

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with hydatid cyst.

Case (17) Bacillary dysentery

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.
- 2-Select the appropriate investigations.
- 3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with Bacillary dysentery

Case (18) Abdominal TB

Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition

Specific learning Objectives:

By the end of case discussion the student will be able to:

- 1-Integrate the results of history, physical examination and laboratory test

findings into a meaningful diagnostic formulation.

2-Select the appropriate investigations.

3-Construct appropriate management algorithm (both diagnostic and therapeutic for patients with Abdominal TB.

Names and contact information of staff in charge of the block

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Dr. Mohamed Mostafa

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Heads of departments: Prof.; Sharaf El-Din Shazly, Prof Asmaa Nasser Mohammed

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