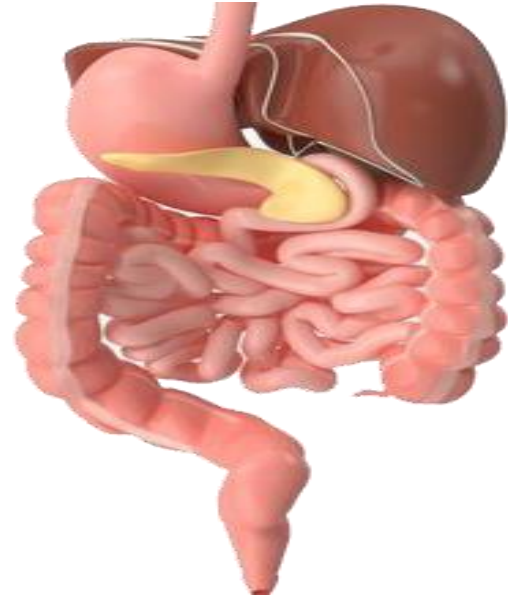




Faculty of Medicine  
Dept. of Internal Medicine



Sohag Unviersity



## Rotation Medicine

### STUDY GUIDE

### Medicine II

(MTR-417)

**Prepared by**

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

**Contact Information of Staff Responsible for Block**

**Heads of the sharing departments**

Prof. Usama Ahmed Arafa	Head of Department of Internal Medicine
Prof. Ghada Moustafa Galal	Head of Department of Tropical Medicine and Gastroenterology

**Departments Co-ordinators**

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

**Under supervision of**

**Medical Education Centre**

**Faculty of Medicine Sohag University**

**Staff Participated from Department**

**All staff member of Internal Medicine and Tropical Medicine &  
Gastroenterology**

**2022- 2023**

## 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:

2022 -2023

⊕ Title: Medicine II

⊕ Code: MED - 417

⊕ Credit points: 15

⊕ Lectures: 65 hours

⊕ Practicals : 33 hours

⊕ Case based discussions : 45 hours

⊕ Student learning activities:

Portfolio : (22)

Formative assessment (17).

## Block Map

block	Total marks	Responsible department	Days/ weeks	Points	الوحدة التعليمية Block	year
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MTR-417	300	Internal medicine	8 weeks	15	Medicine II أمراض باطنة وامراض المتوائنة	3 rd year
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## 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
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		%	Marks	Medicine	Tropical
<b>End-block exam</b>	MCQ	20%	60 marks	46 marks	14 marks
<b>Portfolio</b>	May include incision academy certificates	10%	30 marks	23 marks	7 marks
<b>Final written exam</b>	MCQ	40%	120 marks	92 marks	28 marks
<b>OSCE final</b>	Typical OSCE stations using standardized, real or skill labencounters	30%	90 marks	69 marks	21 marks
<b>Total</b>		100%	300 marks	230 marks	70 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	S
1.2. Adopt an empathic and holistic approach to the patients and their problems.		S
1.3. Assess the mental state of the patient.		S
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.		S

1.5. Prioritize issues to be addressed in a patient encounter.		K&S
1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.		K&P
1.7. Recognize and respond to the complexity, uncertainty and ambiguity inherent in medical practice.		G&S
1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.		K
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).		G&S
1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.		K&S
1.11. Perform diagnostic and intervention procedures <sup>2</sup> in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.		S
1.12. Adopt strategies and apply measures that promote patient safety.		S
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.		K&S
1.14. Respect patients' rights and involve them and /or their families in management decisions.		S&G
1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.		K&S
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.		K&S
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.		K&S
2.7 Provide care for specific groups including pregnant women, newborns and infants, adolescents and the elderly.		G&S
2.9 Adopt suitable measures for infection control.		K&S
3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.		G
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.		G&S
3.3. Respect the different cultural beliefs and values in the community they serve.		S

3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.		S&G
3.5. Ensure confidentiality and privacy of patients' information.		G
3.7. Recognize and manage conflicts of interest.		G
3.8. Refer patients to appropriate health facility at the appropriate stage.		K&G&S
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.		G
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).		K
4.6 Describe altered structure and function of the body and its major organ systems that are seen in various diseases and conditions.		K
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.		K
5.1 Recognize the important role played by other health care professions in patients' management.		S&G
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.		S&G
5.3 Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work.		S&G
5.4 Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.		S&G
5.5 Communicate effectively using a written health record, electronic medical record, or other digital technology.		S&G
5.6 Evaluate his/her work and that of others using constructive feedback.		G
5.7 Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.		S&G
5.9 Use health informatics to improve the quality of patient care.		G
5.10 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.		G

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

## 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

### **K- Knowledge and understanding Upon completion of the course students should be able to:**

K1-Applydefinition, etiology, pathogenesis, clinical features, complications, principles of prevention and management in common Endocrinal;GIT;Hepatobiliary;Nutritionaland Rheumatological diseases problems.

K2- 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.



K3- Correlate the risk factors, outcomes and treatment options of common clinical problems related to the field of Endocrinology; Gastroenterology; Hepatobiliary; Nutritional and Rheumatological diseases

K4- Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.

K5- Integrate the results of history, physical examination and laboratory test findings into a meaningful diagnostic formulation.

K6- Construct appropriate management algorithm (both diagnostic and therapeutic) for patients with common Endocrinology; GIT; Hepatobiliary; Nutritional and Rheumatological diseases illness both acute and chronic.

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

S1- Obtain and record informative history.

S2- Examine the patient systematically appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.

S3- Design and /or present a structured, patient centered history and an appropriately timed full physical examination of patients.

S4- Show how to use peripheral venous cannula, urethral catheter, ryles tube insertion and syngestaken tube insertion.

S5- Apply measures that promote patient safety.

S6. Apply suitable measures for infection control when dealing with the patients and instruments.

S7- Conduct patient-focused care while working with health care professionals.

**G- Generic and transferable skills**

G1- Perform practice-based improvement activities using portfolio.

G2- Practice effectively using a written health record, electronic medical record, or other digital technology

G3- Display effective communication with patients, their families and community through proper verbal and written means, respecting their beliefs and level of education.

G4- Display respect, compassion, and integrity; a responsiveness to the needs of patients and society.

G5- Display a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent.

G6- Work effectively with others as a member of team work by acting in small group.

G7- Display adequate cooperation with his/her colleagues

G8- Arrange the efforts required to accomplish the tasks in specified time.

G9- Verify the use of sources of biomedical information to remain current with advances in knowledge and practice.

G10- Share in the work efficiently in responsible manner keeping the Instruments and Equipment of the Department intact and clean.

G11- Adhere to the basic ethical and medicolegal principles that should be applied in practice.

G12- Describe his/her work and that of others using constructive feedback.

G13- Present regular reflection on and assess his/her performance using various performance indicators and information sources.

G14- Initiate a personal learning plan to enhance professional practice

G15- Identify opportunities and use various resources for learning.

G16- Integrate in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.

G17- Organize learning time and resources and set priorities

G18- 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	Contact Hours
1	<b>Introduction to gastrointestinal diseases (including symptoms and investigations)</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	2
2	<b>Gastroesophageal reflux disease</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
3	<b>Gastritis and peptic ulcer disease</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
4	<b>Gastrointestinal bleeding (upper and lower)</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	2
5	<b>Inflammatory bowel disease</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	2
6	<b>Functional gut disorders</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	2
7	<b>Pancreatitis</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
8	<b>Malabsorption syndrome</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
9	<b>Introduction to liver diseases</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
10	<b>Jaundice</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
11	<b>Liver cirrhosis</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition	1

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

31	<b>Fat-soluble vitamins</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
32	<b>Water-soluble vitamins</b> Kumar & Clark's Clinical Medicine, 10 <sup>th</sup> edition Davidson's Principles and Practice of Medicine 23 <sup>rd</sup> edition	1
	<b>Total</b>	41 hours

## Lecture Topics in Tropical Medicine

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

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

### Medicine II (case scenario)

No.	Title of cases and reference	Hour
<b>1</b>	<b>Case 1 Rheumatoid arthritis</b> USMLE step2 CK Internal Medicine lecture notes	<b>3</b>
<b>2</b>	<b>Case 2 Systemic lupus erythematosus</b> USMLE step2 CK Internal Medicine lecture notes	<b>3</b>
<b>3</b>	<b>Case 3 Scleroderma</b> USMLE step2 CK Internal Medicine lecture notes	<b>3</b>
<b>4</b>	<b>Case 4 Acute gout</b> USMLE step2 CK Internal Medicine lecture notes	<b>3</b>
<b>5</b>	<b>Case 5 Gastritis and peptic ulcer</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>6</b>	<b>Case 6 GERD</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>7</b>	<b>Case 7 GIT bleeding</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>8</b>	<b>Case 8 IBD</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>9</b>	<b>Case 9 Jaundice</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>

	Edition	
<b>10</b>	<b>Case 10 Hepatic encephalopathy</b> AMBOSS	<b>3</b>
<b>11</b>	<b>Case 11 Ascites</b> AMBOSS	<b>3</b>
<b>12</b>	<b>Case 12 Introduction to fever and PUO, Leptospirosis</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>13</b>	<b>Case 13 Acute hepatitis, Typhoid fever</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>14</b>	<b>Case 14 Amoebic liver abscess, Hydatid cyst</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
<b>15</b>	<b>Case 15 Bacillary dysentery, Abdominal TB</b> Internal Medicine Correlations and Clinical Scenarios for USMLE Step 3, 1st Edition	<b>3</b>
	<b>Total</b>	<b>45</b>

**Medicine II**  
**Blueprint of the block**

No.	List of topics (Lectures/cases)	Total Marks	Final written exam	Mid term exam
<b>1</b>	<b>Introduction to gastrointestinal diseases (including symptoms and investigations)</b>	6 marks	-----	6 marks
<b>2</b>	<b>Gastro-esophageal reflux disease</b>	3 marks	1 mark	2 marks
<b>3</b>	<b>Gastritis and peptic ulcer disease</b>	4 marks	2 marks	2 marks
<b>4</b>	<b>Gastrointestinal bleeding (upper and lower)</b>	6 marks	1 marks	5 marks
<b>5</b>	<b>Inflammatory bowel disease</b>	6 marks	1 marks	5 marks
<b>6</b>	<b>Functional gut disorders</b>	6 marks	2 marks	4 marks
<b>7</b>	<b>Pancreatitis</b>	4 marks	1 mark	3 marks
<b>8</b>	<b>Malabsorption syndrome</b>	4 marks	1 mark	3 marks
<b>9</b>	<b>Introduction to liver diseases</b>	4 marks	-----	4 marks
<b>10</b>	<b>Jaundice</b>	4 marks	2 mark	2 marks
<b>11</b>	<b>Liver cirrhosis</b>	3 marks	1 mark	2 marks
<b>12</b>	<b>Portal hypertension</b>	3 marks	1 mark	2 marks
<b>13</b>	<b>Ascites and spontaneous bacterial peritonitis (SBP)</b>	4 marks	2 marks	2 marks
<b>14</b>	<b>Hepatic encephalopathy and acute liver failure</b>	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	6 marks	6 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	6 marks	6 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	-----
	<b>Total</b>	138 marks	92 marks	46 marks

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

<b>4</b>	<b>Heat induced disorders</b> <b>Infectious mononucleosis &amp; Toxoplasmosis</b>	3 marks	1 mark	2 marks
<b>5</b>	<b>Schistosomiasis and abdominal tuberculosis</b>	3 marks	1 mark	2 marks
<b>6</b>	<b>Brucellosis</b> <b>Malaria</b>	3 marks	1 mark	2 marks
<b>7</b>	<b>Infectious jaundice and leptospirosis</b> <b>Fulminant liver cell failure</b>	3 marks	1 mark	2 marks
<b>8</b>	<b>HIV and Opportunistic infections</b>	3 marks	3 marks	-----
<b>9</b>	<b>Chronic hepatitis</b>	3 marks	3 marks	-----
<b>10</b>	<b>H. pylori infection</b> <b>Antimicrobial chemotherapy</b>	3 marks	3 marks	-----
<b>11</b>	<b>Hydatid liver disease</b> <b>Liver abscess (pyogenic, amoebic)</b>	3 marks	3 marks	-----
<b>12</b>	<b>Tetanus and Rabies</b>	3 marks	3 marks	-----
<b>13</b>	<b>Typhoid fever</b>	3 marks	3 marks	-----
<b>14</b>	<b>Introduction to acute infectious diarrhea</b>	3 marks	3 marks	-----
	<b>Total</b>	42 marks	28 marks	14 marks

### **Blueprint of practical exam**

	<b>List of skills</b>	<b>NO of stations</b>	<b>Marks of OSCE</b>
<b>1</b>	History taking and examination of peptic ulcer	<b>1</b>	<b>5</b>
<b>2</b>	History taking and examination of GERD	<b>1</b>	<b>5</b>
<b>3</b>	History taking and examination of IBD	<b>1</b>	<b>5</b>



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(shiftting dullness,transmitted thrill,buddle sign .)	1	5
8	How to evaluate patient with hepatic encephalopathy	1	5
9	History taking skills in rheumatology	1	4
10	Approach to a patient with poly and monoarthritis	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

## Lecture Outlines

### Lecture Topics in Internal Medicine

#### Lectures (1) Gastrointestinal symptoms

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

-Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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
- Enteropathic spondyloarthritis
- Psoriatic arthritis
- Management

### **Lecture (26) Systemic sclerosis**

Kumar & Clark's Clinical Medicine, 10<sup>th</sup> edition

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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, 10<sup>th</sup> edition  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> edition.

Kamps& Hoffmann. Covid Reference 2020, 6<sup>th</sup> 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.

### 2-Acute viral hepatitis

Sherlock's Diseases of The Liver and Biliary System. 13<sup>th</sup> edition.

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> edition.

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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-Comparison 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-Prevention and treatment.

### **3-Introduction to fevers**

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> edition.

Kumar & Clark's Clinical Medicine, 10<sup>th</sup> edition.

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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. 7<sup>th</sup> edition.

Kumar & Clark's Clinical Medicine, 10<sup>th</sup> edition.

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> edition.  
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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. 7<sup>th</sup> edition.  
USMLE Step 2 CK Lecture Notes (2019), Internal Medicine.  
Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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-Fulminant liver cell failure**

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

**Specific learning Objectives:**

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

- 1-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

### **14-HIV and Opportunistic infections**

Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> edition.

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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. 13<sup>th</sup> edition.

Nick Beeching & Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> edition.

Davidson's Principles and Practice of Medicine 23<sup>rd</sup> 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 23<sup>rd</sup> 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 23<sup>rd</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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 23<sup>rd</sup> 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 Exhustion**

**C-Heat Syncope**

**D-Heat Cramp**

**E-Heat oedema**

**F-Prickly heat**

**23- Acute infectious diarrhea**

Nick Beeching& Geoff Gill. Tropical Medicine Lecture Notes. 7<sup>th</sup> 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 th eappropriate 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**

**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**

**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**

**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**

**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**

**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).