

Microbiology syllabus for 3rd year
M. B. Ch. B. students
Department of Microbiology – College of Medicine –
University of Basrah (75 hours) 2020/2021

Topic	Hrs	Lecturer
Part I. GENERAL BACTERIOLOGY	<i>13 hrs</i>	
Classification and Grouping of bacteria	1	<i>Dr. Ihsan E. Alsaimary</i>
Bacterial cytology	2	<i>Dr. Hanadi A.Jassim</i>
Growth of bacteria & Cultivation	1	<i>Dr. Ihsan E. Alsaimary</i>
Nutritional requirements of microorganisms	1	<i>Dr. Ihsan E. Alsaimary</i>
Microbial Metabolism: Principles , Regulation & Applications	2	<i>Dr. Ihsan E. Alsaimary</i>
Pathogenesis of bacterial infections & Germ theory of diseases	1	<i>Dr. Ihsan E. Alsaimary</i>
Microbial genetics	2	<i>Dr. Nidham Jamalludeen</i>
Sterilization & disinfectants	1	<i>Dr. Haider A. Musa</i>
Antimicrobial chemotherapy & resistance	2	<i>Dr. Haider A. Musa</i>
Part II. SYSTEMATIC MEDICAL BACTERIOLOGY	<i>22 hrs</i>	
Gram positive cocci: <i>Staphylococcus & Streptococcus & Enterococcus</i>	3	<i>Dr. Ihsan E. Alsaimary</i>
Spore forming Gram positive bacilli (aerobic & anaerobic): <i>Bacillus & Clostridium</i>	2	<i>Dr. Hanadi A.Jassim</i>
<i>Non spore forming Gr+ve & -ve bacilli:</i> <i>Propionibacterium & Listeria</i> <i>Corynebacterium & related sp.</i>	1	<i>Dr. Hanadi A.Jassim</i>
<i>Mycobacterium</i>	2	<i>Dr. Haider A. Musa</i>
Enteric Gr-ve rods: Enterobacteriaceae <i>E.coli , Klebsiella , Proteus , Pseudomonas, Yersinia</i> <i>, Acinetobacter, Shigella , Salmonella & others</i>	4	<i>Dr. Nidham Jamalludeen</i>
<i>Vibrio , Aeromonas , Plesiomonas</i>	1	<i>Dr. Ihsan E. Alsaimary</i>
<i>Campylobacter , Helicobacter</i>	1	<i>Dr. Ihsan E. Alsaimary</i>
<i>Mycoplasma</i>	1	<i>Dr. Nibras alammr</i>
Rickettsial diseases	2	<i>Dr. Nibras alammr</i>
<i>Francisella , Pasteurella , Haemophilus ,</i> <i>Bordetella and Brucella</i>	2	<i>Dr. Hanadi A.Jassim</i>
<i>Legionella & unusual bacterial pathogens</i>	1	<i>Dr. Hanadi A.Jassim</i>
Spirochaetes & spiral bacteria , Neisseria , <i>Chlamydia</i> (STD pathogens)	2	<i>Dr. Haider A. Musa</i>
Part III. GENERAL VIROLOGY	<i>4 hrs</i>	
General properties & Classification of viruses , cultivation , Replication of viruses	1	<i>Dr. Wijdan N. Almousawi</i>

Natural history & mode of transmission Pathogenesis & control of viral diseases	1	Dr.Dania M.Shaker
Host responses to viral infections	1	Dr.Wasan abulameer
Prevention & treatment of viral diseases	1	Dr.Wijdan N.Almousawi
Part IV .SYSTEMIC MEDICAL VIROLOGY	15 hrs	
parvovirus	1	Dr.Wasan abulameer
adenovirus & poxvirus	1	Dr.Dania M.Shaker
Herpes viruses : HSV-1 , HSV-2 , V2V , CMV , EBV	2	Dr.Wijdan N.Almousawi
Orthomyxoviruses	1	Dr.Wasan abulameer
Paramyxovirus & Rubella viruses	1	Dr.Dania M.Shaker
picornaviruses	1	Dr.Dania M.Shaker
Viral hepatitis	2	Dr. Firas Taha Mansour
Viral gastroenteritis	1	Dr. Firas Taha Mansour
Rhabdovirus& rabies	1	Dr. Firas Taha Mansour
arbovirus	1	Dr.Wasan abulameer
Oncogenic viruses	1	Dr.Wasan abulameer
Retroviruses & HIV infection	1	Dr.Wasan abulameer
Corona virus	1	Dr. Firas Taha Mansour
Part V. BASIC & CLINICAL IMMUNOLOGY	17hrs	
Basic immunology		Dr.Dania M.Shaker
Basis of body defense:specific&non specific	1	
immune responses	2	Dr. Nibras alammar
Humoral immunity	1	Dr.Wijdan N.Almousawi
Cell mediated immunity	2	Dr.Wijdan N.Almousawi
The complement system	1	Dr. Nibras alammar
Antigen-antibody reactions	1	Dr. Nibras alammar
MHC:structure& diseases	1	Dr.Wijdan N.Almousawi
Clinical immunology		
Transplantation immunology	1	Dr.Wijdan N.Almousawi
Hypersensitivity reactions	2	Dr. Nibras alammar
Tolerance & Autoimmunity	2	Dr.Dania M.Shaker
Immunodeficiency diseases	1	Dr. Nibras alammar
Tumor immunity	1	Dr.Wijdan N.Almousawi
Immunity against infections	1	Dr.Wijdan N.Almousawi
Part VI. MEDICAL MYCOLOGY	4 hrs	
Structure,classification, superficial mycosis , subcutaneous mycosis	2	Dr. Hanadi A.Jassim Dr. Haider A. Musa
systemic mycosis and opportunistic fungi	2	

Parasitology Syllabus

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Topic	Hrs	Lecturer
GENERAL INTRODUCTION	3	Dr.Abdulmohsin Hameed
Medical Protozoology		
1-Amebae of man <i>Entamoeba histolytica and amoebiasis</i> <i>Entamoeba coli</i> <i>Entamoeba gingivalis</i> <i>Entamoeba hartmanni</i> <i>Endolimax nana</i> <i>Iodamoeba butschlii</i> <i>Acanthamoeba spp.& Naegleria fowleri</i>	4	Dr.Maysaloun abdulhameed
2-Flagellates A- Intestinal , oral and urogenatal flagellates <i>Giardia lamblia</i> <i>Dientamoeba fragilis</i> <i>Trichomonas tenax</i> <i>Trichomonas vaginalis</i> <i>Chilomastix mesnili and othre intestinal flagellates</i> <i>Blastocystis hominis</i>	2	Dr.Maysaloun abdulhameed
B- Blood and tissue flagellates : <i>Leishmania tropica</i> complex <i>L. major</i> complex <i>Leishmania donovani</i> complex <i>Leishmania braziliensis</i> complex <i>L. Mexicana</i> complex <i>Trypanosoma rhodesiense</i>	5	Dr.Abdulmohsin Hameed

<i>T. gambiense</i> <i>T. cruzi</i>		
3-Ciliate : <i>Balantidium coli</i>	1	Dr.Maysaloun abdulhameed
4-SPOROZOA a- Malarial Parasites: <i>plasmodium vivax</i> <i>plasmodium malariae</i> <i>plasmodium falciparum</i> <i>plasmodium ovale</i>	4	Dr.Abdulmohsin Hameed
b- <i>Toxoplasma , Isospora , Sarcocystis , Cryptosporidium and Microsporidium</i>	3	Dr.Maysaloun abdulhameed
Medical Helmintholog		
Introduction	1	Dr. Ban Anas Sabbar
1- Cestodes General consideration <i>Taenia saginata</i> <i>Taenia solium and cysticercosis</i> <i>Echinococcus and hydatid disease</i> <i>Diphyllobothrium and sparganosis</i> <i>Dipylidiumcaninum latum</i> <i>Hymenolepis nana</i> <i>Hymenolepis diminuta</i> <i>Multiceps multiceps</i>	5	Dr. Ban Anas Sabbar
The common parasites in Iraq (review)	1	Dr.Abdulmohsin Hameed
2-Trematodes (flukes): Ceneral consideration a- <i>Fasciola hepatica & F. gigantica</i> b- <i>Clonorchis sinensis</i> and <i>Opisthorchis felineus</i> c- <i>Intestinal and lung flukes</i>	5	Dr. Ban Anas Sabbar

<p><i>d- Schistosoma haematobium</i> <i>e- Schistosoma mansoni</i> <i>f- Schistopsoma japonicum</i></p>		
<p>3-Nematodes: General consideration <i>a-Ascaris lumbricoides</i> <i>b- Enterobius vermicularis</i> <i>c- Trichuris trichiura</i> <i>d- Trichostrongylus</i> <i>e- Strongloides stercoralis</i> <i>f- Ancylostoma duodenale</i> <i>g-Necator americanus</i> <i>h- Cutaneous and visceral larva migrans</i> <i>i - Trichinella spiralis</i> j –The filariae: 1- <i>Wuchereria bancrofti</i> 2- <i>Onchocerca volvulus</i> 3- <i>Loa loa</i> k- <i>Drancuncolus medinensis</i></p>	10	Dr.Maysaloun abdulhameed
MEDICAL ENTOMOLOGY	6	Dr.Abdulmohsin Hameed

Note: The following points will be discussed for each parasite mentioned above.

- 1- *Geographical distribution.*
- 2- *Morphology, biology and life cycle.*
- 3- *Pathogenesis and symptomatology.*
- 4- *Treatment.*
- 5- *Epidemiology.*
- 6- *Control.*
- 7- *Diagnosis.*