

Course Plan

Semester: 2	Academic Year:2024
Level:	Major: bacteriology
Course Title: Medical Bacteriology	Department: Bacteriology and Virology, School of Medicine
Course Code: 1274029	University Professor or Faculty member:
Class NO: Tadbir International Education Center, Medical University of Isfahan, Hezar-Jerib Ave., Isfahan, Iran iedu.info@mui.ac.ir +98 31 37927657-9	Credit Hours: 43
Prerequisite: General Chemistry Plus biology	Credit Units: 2.4
Availability of Professor:	Tel: +983137929078
Office Address: Department of Bacteriology and Virology	E-mail: havaei@med.mui.ac.ir
Name of Student Representative and Cellphone Number. Professor Seyed Asghar Havaei	Number of Students:

The General Purpose of the Lesson:

Designed to provide students with a clear entry to mid-level understanding of the clinical and diagnostic issues in bacteriology, the course should be used as an introduction to more advanced study in infectious diseases and clinical microbiology.

Learning Outcomes (Objectives):

Basic Bacteriology includes;

Principles of bacteriology, including structure, function, metabolism, genetics, classification of bacteria and typing methods, normal flora, interaction of bacteria with each other, hosts, and the environment, pathogenesis of bacteria and host defense, disinfection, sterilization, and mechanisms of action of disinfectants, mechanisms of action of antibiotics and bacterial resistance to antibiotics.

Clinical Bacteriology:

The primary aim of the clinical bacteriology is to provide the medical students with characteristics, pathogenesis, and epidemiology and laboratory diagnosis of pathogenic bacteria to help students to learn how to deal with the diagnosis of infectious diseases.

At each lecture the taxonomy, structure, epidemiology, virulence factors, clinical presentations of infection, diagnosis and detection, treatment and prevention are discussed for each.

Main References (Text Books): Medical Microbiology 8th Edition

By Patrick R. Murray PhD (Author), Ken S. Rosenthal PhD (Author), Michael A. Pfaller MD(Author). Latest version.

References for More Reading:

Student's Responsibilities: study hard and prepare for examination

Attendance Rules:

The students should be present on all online lectures.

Department's Attitudes:

Mid Exam Date:

Final Exam Date:

NO Of Sessi on	Main Topic	Teacher's Name	Time	Date
1	The History and scope of microbiology	Dr J.Faghri	1 hour 8 – 9 AM	1402/11/17
2	Bacterial Structure 1	Dr F. Poursina	1 hour 9 – 10 AM	1402/11/17
3	Bacterial Structure 2	Dr F. Poursina	1 hour 8 – 9 AM	1402/11/18
	Physiology and Metabolism of bacteria (Part 1)	Dr B. Nasr Esfahani	1 hour 9 – 10 AM	1402/11/18
4	Physiology and Metabolism of bacteria Part 2)	Dr B. Nasr Esfahani	1 hour 8 – 9 AM	1402/11/24
5	Classification of Bacteria	Dr V. Karbasizadeh	1 hours 9– 10 AM	1402/11/24
6	Bacterial growth	Dr J.Faghri	1 hour 8 – 9 AM	1402/11/25
	Pathogenesis	Dr SA Havaei	1 hour 9 – 10 AM	1402/11/25
7	Disinfection and Sterilization	Dr H. Fazeli	2 hours 8 – 10 AM	1402/12/1
8	Bacterial Genetics	Dr SA Havaei	2 hours 8 – 10 AM	1402/12/2
9	Antibiotics; Mechanisms of Action and resistance	Dr H. Fazeli	1 hour 8 – 9 AM	1402/12/8
10	Normal flora	Dr V. Karbasizadeh	1 hour 9 – 10 AM	1402/12/8
11	Gram positive cocci, Staphylococci	Dr. SA Havaei	2 hours 8 – 10 AM	1402/12/9
12	Streptococci; Enterococcus	Dr B. Nasr Esfahani	2 hours 8 – 10 AM	1402/12/15
13	Neisseria and Branhamella	Dr F. Poursina	1 hour 8 – 9 AM	1402/12/16
14	Gram-positive Bacilli, Bacillus .sp	Dr B. Nasr Esfahani	1 hour 9 – 10 AM	1402/12/16
	Gram-positive Bacilli, Corynebacterium	Dr F. Poursina	1 hour 8 – 9 AM	1402/12/22
15	Gram-positive Bacilli, Clostridia	Dr V. Karbasizadeh	1 hour 9 – 10 AM	1402/12/22
16	Enterobacteriaceae and E. coli	Dr H. Fazeli	1 hour 8 – 9 AM	1402/12/23
	Shigella and		1 hour	1402/12/23

17	Salmonella	Dr H. Shojaei	9– 10 AM	
	Pseudomonas and the non-fermenters	Dr H. Fazeli	1 hour 8 – 9 AM	1403/1/21
18	Hemophilus and other fastidious Gram-negatives	Dr J.Faghri	1 hour 9 – 10 AM	1403/1/21
	Vibrio	Dr H. Shojaei	1 hour 8 – 9 AM	1403/1/28
19	Mycobacterium tuberculosis	Dr B. Nasr Esfahani	1 hour 9 –10 AM	1403/1/28
	Atypical mycobacteria and leprosy	Dr. H. Shojaei	1 hour 8 – 9 AM	1403/1/29
20	Legionella, Yersinia and Miscellaneous organisms	Dr J.Faghri	1 hour 9 –10 AM	1403/1/29
	Brucella	Dr H. Shojaei	1 hour 8 – 9 AM	1403/2/4
21	Campylobacter	Dr SA Havaei	1 hour 9 – 10 AM	1403/2/4
	Borrelia	Dr V. Karbasizadeh	1 hour 8 – 9 AM	1403/2/5
22	Treponema, Lyme disease and syphilis	Dr V. Karbasizadeh	1 hour 9 – 10 AM	1403/2/5
۲۳	Helicobacter	Dr F. Poursina	1 hour 8 – 9 AM	1403/2/11
۲۴	Gram-positive Bacilli; Listeria	Dr H. Shojaei	1 hour 9 –10 AM	1403/2/11
۲۵	Chlamydia	Dr H. Fazeli	1 hour 8 – 9 AM	1403/2/12
۲۶	Bordetella, and Francisella	Dr J.Faghri	1 hour 9 –10 AM	1403/2/12
۲۷	Actinomyces	Dr H. Shojaei	1 hour 8 – 9 AM	1403/2/18
۲۸	Nocardia	Dr J.Faghri	1 hour 9 –10 AM	1403/2/18
۲۹	Bacteroides and Gram-negative Anaerobes	Dr V. Karbasizadeh	1 hour 8 – 9 AM	1403/2/19
۳۰	Rickettsia's	Dr SA. Havaei	1 hour 9 –10 AM	1403/2/19
۳۱	Mycoplasma	Dr H. Fazeli	1 hour 8 – 9 AM	1403/2/25