

Course Specification Card for Block 1.2 (Infection and Immunity)

College	College of Medicine	Department	Medical Education		
Course Name (English)	Block 1.2 (Infection and Immunity)	Course Name (Arabic)	العدوى والمناعة		
Course Number	CRN Male: 15569 CRN Females: 15581	Course Code	1000102		
Credit Hrs.	6	Contact Hrs.	Theoretical	Practical	T
Teaching Language	English <input checked="" type="checkbox"/> Arabic <input type="checkbox"/>		77	58	135
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended				
Course Nature	<input checked="" type="checkbox"/> Compulsory <input type="checkbox"/> Elective				
Course Type	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Program Requirement				
Level	Year 1	Pre-Requisite(s)	None		

Course Description

The course covers the important aspects of Infection and Immunity along with Anatomy, Histology and Physiology of GIT as well as disease affecting GIT. Characteristics of different groups of microorganisms including bacteria, viruses, fungi and parasites and the infections produced by them and how the immune system deals with such pathogens is learnt in this course. Applied aspects of immunology like allergy and hypersensitivity, immune deficiencies and autoimmune diseases are also discussed.

Topics

1. Bacterial Structure, Genetics, Pathogenicity, Ecology and Treatment of Bacterial infections.
2. Structure and Function of Immune System and Abnormal Immune Response
3. Viral structure, Replication, Pathogenicity and Treatment of Viral Infections.
4. Diagnostics concerning Infectious Diseases.
5. Parasite Classification, Pathogenicity, Common Parasitic Infections and Treatment of Parasitic infections.
6. Fungal Structure, Classification and

Learning Outcomes

Knowledge

Describe the structural components of immune system and their microscopic structure, the principles of activation, and response of immune system to different foreign substances and its dysregulation.

Classify the different types of microbes, the causative agents of infectious diseases and the normal resident microbiota of human beings. Describe the pathogenesis, preventive strategies, diagnostic tools and treatment options of infectious diseases.

Describe the anatomy of the abdomen and abdominal organs and microscopic structure of liver, spleen and gastrointestinal tract .

Recite the basic biological and physiological processes and their dysregulation related to: motility and the neural control of GIT, salivary and gastric secretions, digestion and absorption of food in GIT, sympathetic and parasympathetic parts of autonomic nervous system.

List the important skin disorders and their clinical significance.

Skills:

Integrate, organize and communicate both a complete and focused medical history, as appropriate. Document in writing or electronically – findings and agreement made about the patient's problem.

<p>Treatment of fungal infections</p> <p>7. Anatomy of Abdomen including Anterior abdominal wall, Peritoneum and Peritoneal and Extraperitoneal organs.</p> <p>8. Histology of Gastrointestinal Tract</p> <p>9. Physiology of Gastrointestinal Tract with its applied aspects</p> <p>10. Pharmacodynamics and Pharmacokinetics</p> <p>11. Global Health Perspective of Infections and Treatment of Infectious Diseases</p> <p>12. Structure of skin and Dermatological disorders associated with hypersensitivity and autoimmunity.</p>	<p>Apply different kinds of clinical reasoning during tutor group meetings using PBL methodology in discussing different medical problems.</p> <p>Communicate with peers, share in groups and adopt different team roles with ensuring open and respectful communication and openness to collaboration. Employ information and communication technologies to acquire, organize and apply information for the purposes of patient and population care, scholarly inquiry, self-directed learning and collaborative knowledge exchange. Perform the basic medical skills, procedure and a range of simple diagnostic, surgical and pharmacological therapies of the different disciplines including first aid lines of management in routine and casualties.</p> <p>Values: Recognize and describe the reflection methodology and demonstrate transparent and efficient reflective attitude in both academic and clinical situations.</p>					
<p>Assessment Tools</p>	<input type="checkbox"/> Periodic Exams		<input type="checkbox"/> Short Exams		<input type="checkbox"/> Final Exam	<p>٦٠%</p>
	<input type="checkbox"/> Individual Assignments	<p>١٠%</p>	<input type="checkbox"/> Group Assignments (Tutor Group assignment)	<p>١٥%</p>	<input type="checkbox"/> Oral Participations (OSPE)	<p>١٥%</p>
<p>Main Reference</p>	<ul style="list-style-type: none"> ▪ Abbas: Basic Immunology A Abbas, A Litchman <i>Basic Immunology updated edition, 5th and 6th Editions 9781416055693 , Elseveir Health</i> ▪ Alberts: Essential Cell Biology B Alberts, D Bray, K Hopkin, A Johnson, J Lewis, M Raff, K Roberts, P Walter, Garland Science/ISBN 9780815341307/ 3rd and 4th edition/ 2010. ▪ BNF : British National Formulary Royal Pharmaceutical Society, Pharmaceutical Press, 2013-14 ▪ Gilroy : Atlas of Anatomy AM Gilroy, BR MacPherson, JM Ross, M Schenke, E Schulte, U Schmacher Thieme Medical Publisher Inc/ISBN 9781604067453/ 2ND Edition 2012 ▪ Guyton: Textbook of Medical Physiology AC Guyton, JE Hall, Elsevier Saunders/ ISBN 9781416045748/ 12th and 13th Editions ▪ Junquiera: Basic Histology A Mescher, McGraw-Hill Publishing Co/ ISBN 978007127190/ 14th and 15th edition 					

	<ul style="list-style-type: none"> ▪ Murray: Medical Microbiology <i>PR Murray, MA Pfaller, KS Rosenthal, Elsevier Mosby/ ISBN 9780323054706/ 8th and 9th editions</i> ▪ Rang and Dale' Pharmacology <i>HR Rang, MM Dale, JM Ritter, RJ Flower, GJ Henderson, Elsevier Churchill Livingstone/ ISBN 139781437719338/ 8th and 9th editions</i> ▪ Robbins: Basic Pathology <i>V Kumar, A Abbas, J C Aster, Elsevier Saunders/ ISBN 9780808924326/ 9th and 10th edition 2012</i>
Supporting References	<ul style="list-style-type: none"> ▪ Butler, Cholera tightens grip on Haiti. Nature, 2001. ▪ Dowell et al, Public health in Haiti – Challenges and progress, NEJM, 2011. ▪ Walton et al., Responding to Cholera in Post-earthquake Haiti, NEJM, 2011. ▪ Ryan, The Cholera Pandemic, Still with us after half a century: Time to rethink. PloS, 2011. ▪ Hogerzeil, The concept of Essential Medicines: Lessons for rich countries. BMJ, 2004. ▪ WHO; The selection of Essential Medicines. ▪ Pemphigus: Introduction, Access Medicine from The McGraw-Hill. ▪ The mucosal immune system and its integration with the mammary glands. Per Brandtzaeg, PhD.

