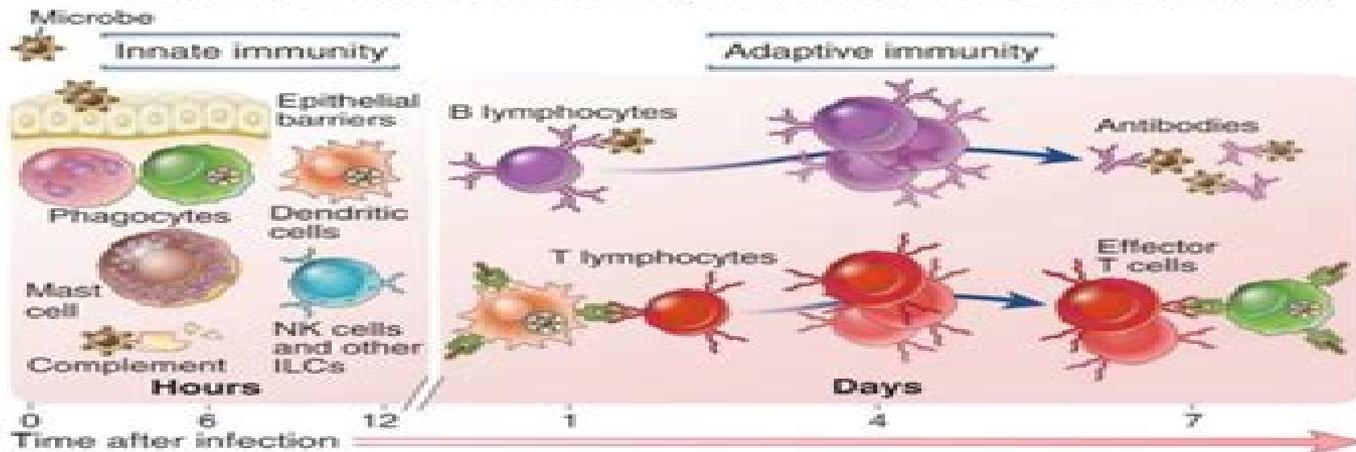


WEEK 1 26/07/2018

- An Immunogen (immunogenic) elicits an adaptive immune response e.g. influenza virus
- An Antigen (Ag) is a specific immune target (usually referring to recognition by adaptive cells) e.g. hemagglutinin on surface of influenza virus.
- Levels of protection from pathogens:
 - First line: Physical barriers that viruses and bacteria must cross. Skin covers and mucous membranes that line digestive, respiratory, reproductive tracts, cover ~400 m²
 - Second line: Innate immune system. Macrophages (Greek for "big eater"), neutrophils, natural killer (NK) cells, Cytokines (hormone-like proteins that mediate inflammation), Complement proteins
 - Third line (vertebrates only): Adaptive immune system, adapts to defend against specific pathogens using variable receptors.
 - B cells make antibodies, each individual B cell makes a specific antibody to a specific antigen
 - T cells mediate cellular responses using variable receptors (T cell receptors; TCRs)



- Innate Immunity:
 - Present at birth and for life
 - No specificity (i.e. can respond to many stimuli)
 - Not modified by stimulus (i.e. no memory, not enhanced on subsequent exposure)

Lecture Notes Infectious Diseases

Jessica J Manson



Lecture Notes Infectious Diseases:

Lecture Notes on Infectious Diseases Bibhat K. Mandal, 1996 The fifth edition of this popular text has been completely rewritten to accommodate the rapid advances in the management of infectious disease over the past decade It provides a core text on the most important infections and uses a systematic approach for each infection with consistently applied headings making information retrieval very easy One new feature is the inclusion of case studies for the most common infections This new edition will be welcomed by medical students and junior doctors in hospital general practice and community medicine

Lecture Notes on the Infectious Diseases Bibhat K. Mandal, Richard T. Mayon-White, 1984-01
Lecture Notes on the Infectious Diseases John Fairbairn Warin, Alastair G. Ironside, Bibhat K. Mandal, 1980

Lecture Notes: Infectious Diseases BK Mandal, E. G. L. Wilkins, EM Dunbar, Richard Mayon-White, 2004-02-13 This core text provides an excellent concise introduction to infectious diseases The book integrates basic science with clinical practice with disease orientated descriptions and clinical presentations on a system by system basis It is therefore ideal for both the student and the practitioner For this new sixth edition the text has been brought fully up to date throughout The highly structured and improved text is designed to facilitate easy access to information making the book an ideal resource for clinical attachments and revision There is a new chapter that covers infections in special groups as well as coverage of sepsis and septic shock The Introductory chapter also takes into account new control measures emerging infections and infections linked with bioterrorism Information on global occurrence is added to the epidemiology sections where relevant and web site information has been included to provide up to date resources on fast moving topics such as AIDS and travel related infections such as SARS The result is a text that is a compact yet comprehensive guide to infectious diseases It will appeal to medical students junior doctors general practitioners and allied health professionals who want a concise introduction to the subject or an ideal revision companion

Lecture Notes on Infectious Diseases, 2004 With a major update on immunology and immunisation and infections linked with immunosuppression these lecture notes now include detailed information on the new National Strategy on Infectious Diseases

Medical Microbiology and Infection Tom Elliott, Anna Casey, Peter A. Lambert, Jonathan Sandoe, 2012-05-29 *Medical Microbiology and Infection* Lecture Notes is ideal for medical students junior doctors pharmacy students junior pharmacists nurses and those training in the allied health professions It presents a thorough introduction and overview of this core subject area and has been fully revised and updated to include Chapters written by leading experts reflecting current research and teaching practice New chapters covering Diagnosis of Infections and Epidemiology and Prevention Management of Infections Integrated full colour illustrations and clinical images A self assessment section to test understanding Whether you need to develop your knowledge for clinical practice or refresh that knowledge in the run up to examinations *Medical Microbiology and Infection* Lecture Notes will help foster a systematic approach to the clinical situation for all medical students and hospital doctors

Lecture Notes on Infectious Diseases

Mihaela Lupşe, 2010 **Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory** Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would like to thank Carlos Castillo Chavez Director of the Mathematical and Theoretical Biology Institute and a member of the Departments of Biometrics Statistics and Theoretical and Applied Mechanics Cornell University Sally M Blower Biomathematics UCLA School of Medicine Pauline van den Driessche Mathematics and Statistics University of Victoria and Denise Kirschner Microbiology and Immunology University of Michigan Medical School for their superb roles as organizers of the meetings and editors of the proceedings Carlos Castillo Chavez especially made a major contribution by spearheading the editing process I am also grateful to Kenneth L Cooke Mathematics Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu Mathematics Howard University for serving as co editor of the proceedings I thank Simon A Levin Ecology and Evolutionary Biology Princeton University for providing an introduction

Modeling and Dynamics of Infectious Diseases Zhien Ma, 2009 This book provides a systematic introduction to the fundamental methods and techniques and the frontiers of OCo along with many new ideas and results on OCo infectious disease modeling parameter estimation and transmission dynamics It provides complementary approaches from deterministic to statistical to network modeling and it seeks viewpoints of the same issues from different angles from mathematical modeling to statistical analysis to computer simulations and finally to concrete applications Lecture Notes on the Infectious Diseases /Bibhat K. Mandal, Richard T. Mayon-White Bibhat K. Mandal, 1984 **Lecture Notes on the Infectious Diseases [by] John F. Warin [and] Alastair G. Ironside; with a Foreword by Paul B. Beeson** John Fairbairn Warin, *Lecture Notes* Cotton William E., 1940 *Lecture Notes on the Infections Diseases* John Fairburn Warin, Alastair G. Ironside, Bibhat K. Mandal, 1983 Lecture Notes on the Infections Diseases John F. Warin, 1974 Lecture Notes: Medical Microbiology and Infection Tom Elliott, Husam Osman, Martin Gill, Tony Worthington, 2007-01-01 A core text for students *Lecture Notes Medical Microbiology and Infection* has been updated and revised in this fourth edition to cover all essential areas of medical microbiology and infection The text's structure also lends itself to being a useful reference for junior doctors nurses and GPs Written in a clear and easily digestible format this text covers the basic science of pathogens and follows this with a chapter on Antimicrobial Agents and then a regionally based approach to infection With a new author team new 2 colour design and inclusion of new pedagogical features *Lecture Notes Medical Microbiology and Infection*

provides a thorough and accessible introduction to the topic area *Infectious Diseases* Andrew Barnett Christie,1987
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