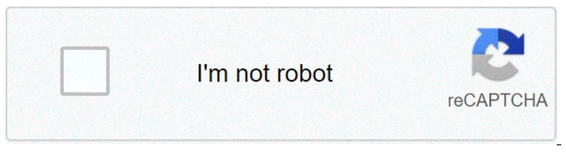

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You can also bookmark this page with the URL : Paperback: 670 pages Publisher: APC → Edition 6th Language: English ISBN-10: 8178556405 ISBN-13: 978-8178556406 Buy More MBBS 2nd Year Books → Follow us on Facebook → Medical Microbiology is rapidly expanding with tremendous knowledge and exciting discoveries at the molecular level. Relevant information of new discoveries has been included in the sixth edition of the Textbook of Microbiology. Each chapter has been careful, updated, and revised extensively in relation to classification, taxonomy, pathogenesis, laboratory diagnosis, and other aspects of various microorganisms. Besides these, a new chapter on 'Emerging and Reemerging Infections' has been added to update the knowledge. Emerging zoonotic diseases caused by Nipah and Hendra viruses have been described to understand the pathogenesis, laboratory diagnosis, and preventive measures of these diseases. A new and innovative chapter 'Essentials of Microbiology at Glance' has been included to revise various aspects of all important microorganisms in no time. Constructive suggestions from students and teachers were also taken into consideration while revising the book. Like the previous editions, I hope the readers will find this edition more informative and up-to-date. Ananthanaryan and paniker textbook of microbiology- 10th edition has been developed for the undergraduate mbbs and bds students, and for all courses dealing with microbiology as a core or ancillary subject. The tenth edition of this classic textbook has been updated keeping in mind the mci emphasis on integrated teaching underscoring the requirement for applied microbiology. Significant updates for this edition: New concepts in sterilisation and disinfection, including plasma sterilisation and practices in healthcare settings automated and updated molecular techniques as applied to microbiology salient features of the revised national tuberculosis program (rntcp), with strategies for diagnosis of mdr and xdr tuberculosis, and the stop tb strategy of who new and emerging viral infections such as sars, mers-cov, influenza epidemics, the zika virus outbreak, and the ebola outbreak naco guidelines for hiv testing strategies for different categories of the population, and hiv exposure and source codes latest vaccines for immunisation against childhood infections in india, including rotavirus, haemophilus influenzae and pneumococci healthcare-associated infections leading to cauti, vap, hcabsi and ssi, and strategies for prevention with pictorial representations biomedical waste management rules (2016) a new chapter on principles of laboratory diagnosis of infectious diseases, explaining the work flow in a clinical microbiology laboratory quality control and accreditation of diagnostic tests performed by laboratories new tabular columns and flowcharts, where required, to make the conceptualisation of processes easy to comprehend by the undergraduate student.You May Also Like-Download Ananthanarayan and Paniker's Textbook of Microbiology PDF BookIn this post you are going to Download Ananthanarayan and Paniker's Textbook of Microbiology PDF Book. 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Buy Ananthanarayan and Paniker's Textbook of Microbiology 11th Edition Book{getButton} $text={Buy Now} $icon={cart}Textbook of Microbiology PDF downloadAnanthanarayan and Paniker's Textbook of Microbiology 11th Edition PDFAnanthanarayanan Textbook of Microbiology PDF 10th editionAnanthanarayan Microbiology 11th EditionAnanthanarayan and paniker's textbook of microbiology pdf driveAnanthanarayan and paniker's textbook of microbiology for nurses pdfAnanthanarayan and paniker's textbook of microbiology downloadTextbook of microbiology by ananthanarayan and paniker pdfAnanthanarayan and paniker's textbook of microbiology 11th edition pdf downloadAnanthanarayan and paniker's textbook of microbiology tenth edition pdfAnanthanarayan and paniker's textbook of microbiology pdf free downloadAnanthanarayan and paniker's textbook of microbiology latest edition pdfTextbook of microbiology by ananthanarayan and panikermicrobiology textbook PDFAnanthanarayan microbiology pdf Start your review of Textbook of Microbiology for Nursing Please help me to how to read this book This review has been hidden because it contains spoilers. To view it, click here. Please anyone help me how to read . please Bad experience for me....I can't read this book.... Bad experience for me....I can't read this book.... ...more Pls let me know how can I read the book.... Im not getting any option to read the whole book... Download the Goodreads app then u can read the text How can we read this book How can I read this book ? Please help me how to read this book Page 2 0 Comments 18 Likes Statistics Notes No notes for slide A vaccine is a substance that is introduced into the body to stimulate the body's immune response. It is given to prevent an infectious disease from developing and the person becoming ill. Vaccines are made from microbes that are dead or inactive so that they are unable to cause the disease. The antigen in the vaccine is the same as the antigen on the surface of the disease-causing microbe. The vaccine stimulates the body to produce antibodies against the antigen in the vaccine. The antibodies created will be the same as those produced if the person was exposed to the pathogen. If the vaccinated person then comes into contact with the disease-causing microbe, the immune system remembers the antibodies it made to the vaccine and can make them faster. The person is said to be immune to the pathogen. Vaccines are usually given by an injection. The measles vaccine is combined with the mumps and rubella (German measles) vaccines and is given as a single injection at 12 – 18 months and again at 4 years. It is called the MMR vaccine. When enough people are vaccinated against a disease it is possible for that disease to be eliminated from the world e.g. in 1980 The World Health Organization announced that smallpox had been eradicated. 1. Microbiology Samipta Singh 2. Contents to discuss • Introduction • A brief History of Microbiology • Microbes In Human Welfare • Culture Techniques • Growth Pattern • Human defense Method (Immunology) • Normal Flora • Introduction, Common problem related to the following (discussing anti microbial agents for) == Bacteriology == Mycology == Virology == Parasitology 3. Microbiology is the study of living organisms of microscopic size Like: • Bacteria (prokaryotes) • Fungi • Protozoa • Algae • Viruses (non cellular organisms) • Multicellular Animal Parasites These microorganisms may be harmful or beneficial 4. Brief History 1. First observation • Robert Hooke (cells) • Cell theory • Antony von Leeuwenhoek (first to observe microorganism using simple microscope) 2. Debate over Spontaneous Generation 3. Golden Age of Microbiology (1857- 1914) • Agostino, Pasteur (causal relation between microorg. and disease • Joseph Lister (disinfectant to clean surgical wounds)• Louis Pasteur: Pasteurization and fermentation Germ theory of disease 5. History (Contd..) • Koch Postulates • Vaccination (Edward Jenner) Birth of Modern Chemotherapy • Paul Ehrlich (Arsenic like compound against Syphillis) • Alexander Fleming (Penicillin) • Resistance issue (tackling) Modern developments in Microbiology • Different Branches (Bacteriology etc) • Use of Genomics to classify microorganism • New techniques 6. Microbes in Human Welfare Microbes in Household Products •Lactobacillus (Milk to Curd) •Baker's Yeast (in fermentation) •In making cheeze, other food items Industrial Products •Fermented Beverages (Alcohol) •Antibiotics •Chemicals, Enzymes and other Bioactive molecules Sewage Treatment •Done using Heterotrophic microbes In Production of Biogas •Using methanobacterium As Biocontrol Agent •Controlling Diseases and Pests Biofertilizers •Nutrient quality of Soil 7. Method of isolating pure cultures Streak-plate method Pour-plate method Spread-plate method 8. Microbial growth pattern 9. How Humans respond to any Pathogen 10. Vaccination • Vaccine (Substance that is introduced into the body to stimulate the body's immune response) • Made from microbes that are dead or inactive so that they are unable to cause the disease. 11. Normal Flora Skin • Low pH, fatty acids, lysozyme (el. Factors) • Staph. epidermidis, Diptheriods, Peptococcus, Micrococcus, E. coli Conjuctiva • Normally free; due to tears • Corynebacterium xerosis, Moraxella species, non- haemolytic streptococci Nose and Nasopharynx • Infants-sterile; 2-3 days later- flora • Diptheroids, Staphylococci, Streptococci, Haemophilus species Mouth • Micrococci, coliforms, Proteus etc • Gum Pockets: Anaerobic bacilli etc Upper Respiratory tract • Streptococci • Normal bronchi (few bact.) , smaller bronchi and alveoli (sterile) GIT • Leptotrichia (Bottle fed infants) • Bifidobacteria, anaerobic lactobacilli, Bacteriodes species Genitourinary Tract • Mycobacterium smegatis (secretions of both) External Auditory Meatus • Staph. Epidermidis, Diptheroids 12. Bacteriology • Study of Bacteria • Bacterial cells have a size of 0.3 to 5 µ 13. Classification of Bacteria Based on Shape Cocci (Spherical) Bacilli (Straight rod) Spiral (Curved Rod) Based on Stain Gram Stain (Positive or negative) Ziehl-Nielson Stain (ex. M. tuberculosis) Based on Oxygen requirement Strict/ Obligate Aerobes Anaerobes Facultative Anaerobes 14. Bacteria as Pathogens Gram negative bacteria Spirochetes T repanoma (ex. T. pallidum) - Syphilis Microaerophilic Vibrioid g- bacteria Campylobacter (C. jejuni) Colitis; Causes diarrhea Aerobic gram negative rods Pseudomonas (P. aeruginosa) Legionella Brucella Bordetella (B. pertussis) Aerobic gram negative cocci Neisseria (N. meningitis, N. gonorrhoeae) Facultatively anaerobic g- rods Escherichia Salmonella Shigella Yersinia Vibrio Haemophillus Anaerobic non spore forming Rickettsia (Rickettsia prowazekii) Chlamydia (C. trachomatis) A girl infected by Haemophilus influenzae Yersinia pestis (causes plague) 15. Bacteria as Pathogens (Contd..) Gram Positive Bacteria Mycoplasmas (M. pneumoniae) Mycobacterium (M. tuberculosis, M. bovis, M. leprae) Non spore forming gram positive rods Listeria (L. monocytogenes) Corynebacterium (C. diptheriae) Anaerobic Spore forming rods Clostridium (C. tetani, C. perfrigens, C. botunalism) Aerobic /F. anaerobic gram positive spore forming rods Bacillus (B. anthrax) Aerotolerant Fermentive gram positive cocci Streptococcus (S. pyrogenes, S pneumoniae) Facultatively anaerobic gram positive cocci Staphylococcus (S. aureus) 16. Anti-bacterial agents • Sulfonamides :Sulfadiazine • Diaminopyrimidines • Quinolones: Ciprofloxacin, Gatifloxacin • B-Lactam Antibiotics: Penicillins, Cephalosporins, Carbapenems • Tetracyclines: Minocycline • Chloramphenicol • Aminoglycosides • Macrolides: Azithromycin (Azilide/Bactoclab), • Lincosamides: Clindamycin • Glycopeptides: Vancomycin • Oxazolidine • Polypeptide • Nitrofuran: Furazolidone • Nicotinic Acid derivatives: Isoniazid • Polyenes: Nystatin, Amphotericin-B • Anti-tubercular • Anti-leprotic 17. Mycology • Study of fungi • Fungi are eukaryotic organisms • Basic form of unicellular fungus is yeast cell • Cell wall is 90% Cabohydrate and cell membrane made up of Ergosterol 18. Problems caused by fungus • Problems Caused by Fungus: Fungal Allergies, Mycotoxicosis, Infection • Fungus as microbial agent of Disease (Classification) Sub cutaneous mycoses Dermatomycoses or Cutaneous mycoses Systemic mycoses 19. Dermatophytes Tinea Pedi (Trychophyton sp.) Tinea Corporis (Microsporum canis, T. mentagrophytes) Tinea capitis (T. tonsurans & M. canis) Tinea barbae (T. rubrum, T. mentagrophytes) Onychomycosis Various dermatophytes And Candida sp. Pityriasis (Tinea Versicolor) Malassezia furfur Tinea nigra Exophiala werneckii 20. Systemic mycoses Cryptococcosis • Cryptococcus neoformans • Can infect any part of the body Moniliasis • Candida albicans • Can infect any body tissue (found on mucous membrane) Blastomycosis • Blastomyces sp. • Two types Histoplasmosis • Histoplasma capsulatum • Acute/ chronic; localized/disseminated infection of RES Coccidiomycosis • Coccioides immitis • Higly infectious; most cases are mild, but few terminate fatally Sporotrichosis • Sporothrix schenckii • Chronic infecton; begins as subcutaneous nodule; the patient may die 21. Anti-fungal Agents • Polyenes: Amphotericin-B, Nystatin • Griseofulvin • Azoles: Clotrimazole, Miconazole, Ketoconazole, Fluconacole, Itraconazole, Voriconazole • Anti-metabolites: 5-Fluorocytosine(interfere with DNA synthesis) • Allyl Amines: Terbinafine • Eschinoglandins: Caspofungine 22. Parasitology • Scientific study of parasitic protozoa and worms • Parasites are classified into 2 sub-kingdoms: == Protozoa (unicellular) == Metazoa (multicellular) • Protozoan parasites are classified according to morphology and means of locomotion. There are 45,000 protozoa species. • Metazoans include the worms (helminths) and arthropoda (posses an external skeleton) e.g. ticks, lice 23. Parasites as agents of Disease • Entamoeba histolytica • Plasmodium vivax, P. falciparum, P. ovale, P. malariae • Leishmaniasis (Leishmania) • Trypanomiasis (Trypanosoma) Amoebiasis Malaria Hemoflagellate infections Other Protozoan Infections Balantidiasis (Balantidium coli) Giardiasis (Giardia lambia) Trichomoniasis (Trichomonas vaginalis) Toxoplasmosis (Toxoplasma gondii) Pneumocystitis (Pneumocystis carinii) GGiardiasis Leishmaniasis 24. Anti- Parasitic Agents Antihelmintic preparations • Abamectin • Diethylcarbamazine • Niclosamide • Ivermectin • Benzimidazines: Thiabendazole, Albendazole, Mebendazole, Triclabendazole, Flubendazole • Praziquantel Antimalarial drugs • Chloroquine, Primaquine, etc • Biguanides • Pyrimethamine • Tetracyclines • Artimisinin Anti- amoebic drugs • Metronidazole • Tinidazole • Diloxamide 25. Virology • Study of Viruses • Viruses are smallest obligate intracellular parasite containing genetic material (DNA or RNA) surrounded by protein • Observed only by electron microscope • The cultivation of viruses includes three common methods – Chicken egg culture – Cell culture – Animal inoculation 26. • Viruses have an inner core of nucleic acid surrounded by protein coat known as an envelope • Size range = 20 – 250 nanometers • Replication: within a host cell while utilizing the host cell's nucleic acids • Prions: Infectious proteins without any detectable nucleic acid • Viral life cycle consists of six stages within the host cell: Attachment, Penetration, Uncoating, Multiplication, Assembly, Release 27. Viral Diseases and Anti-Viral Drugs Viral Diseases Influenza Rabies AIDS Hepatitis Anti- Viral Drugs • Nucleoside and nucleotide reverse transcriptase inhibitors (NRTIs/NtRTIs): 3TC, abacavir , Zidovudine, didanosine, Emtricitabine, tenofovir • Non-nucleoside reverse transcriptase inhibitors (NNRTIs): Efavirenz, Nevirapine • Protease inhibitors (PIs): Atazanavir, darunavir, Fosamprenavir, Ritonavir Saquinavir • Integrase inhibitors: Raltegravir 28. References • Tortora, G.J; Funke, B.R; Case, C.L. "Microbiology- An Introduction" 10th Ed, Pearson,2010 • Pelczar, M.J; Chan, E.C.S; Krieg, N.R. "Microbiology" 5th Ed, Tata McGraw Hill Publishing Company Limited, 2009, 788-875 • Baveja, C.P. "Textbook of Microbiology" 3rd Ed, Arya Publications, 2010, 418-419 • Tripathi, K.D. "Essentials of Medical Pharmacology" Jaypee Brothers Medical Publishers Pvt Ltd.,2009, 668 • 29. "Microbes are the normal part of our universe. They may be harmful, may also be beneficial. We humans have find our ways to tackle with harmful ones. Still dealing with it. No matter how resistant you become, we will find our ways to Survive" -Samipta Singh

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