

CLINICAL INTERNSHIP 1
CLINICAL CHEMISTRY

OVERVIEW OF AUTOMATED CLINICAL CHEMISTRY TESTS

Machines used in sequence:

- For routine chemistry tests:
 - Siemens Dimension
 - Pentra C400
- For blood gas and electrolyte tests:
 - OPTI-CCA TS

Clinical chemistry evaluates the biochemical components of the liquid portion of the blood which is plasma/ serum. Most commonly used specimen is serum.

*What are the different tests in clinical chemistry?

- **Kidney Function Test** which include creatinine, blood urea nitrogen (BUN) and uric acid.
 - ❖ **Creatinine and BUN** measures kidney function.
 - ❖ **Creatinine** is the more specific test and is done using either enzymatic or colorimetric methods. Enzymatic is said to be the better method for the determination of any laboratory tests.
 - ❖ **Uric acid** is not really a kidney function test but it can also attest kidney function, while it's also an indicator of joint diseases especially rheumatoid, gouty arthritis and other types of arthritis.
- **Liver or Hepatic Panel** this includes ALT (SGPT), AST (SGOT), total protein, albumin, globulin, alkaline phosphatase, direct and indirect bilirubin and GGT (an indicator of alcoholic cirrhosis) while all other test will test liver function.
 - ❖ **Prothrombin time** is also part of the hepatic panel, it can assess several clotting factors and also vitamin K dependent this includes factors 2, 7, 9 and 10.
 - ❖ **Clotting factors: 2, 7, 9, and 10** - independent on prothrombin time because they are **vitamin K dependent**.
- **Thyroid Panel** this includes TSH, Free T3, Free T4, T3 and T4.
 - ❖ All of this test will attest hyperthyroidism, hypothyroidism and euthyroidism.
- **Executive Panel #3/ Cardiac Panel** it will assess cardiac enzymes like the CKMB (creatinine-kinase-MB) and AST.
 - ❖ The most accurate cardiac enzyme is called the **CKMB** because it is more secreted by the cardiac muscle and it is not so concentrated in the skeletal muscle.
 - ❖ The most specific protein and the most specific cardiac muscle is **Troponin.**
 - It has two types: **Troponin T and Troponin I**
 - Both are specific except the troponin I lacks periodicity compared to troponin T. **Troponin I** is more specific. Other tests in cardiac function although it is not done in the hospital includes myoglobin and AST (not anymore part of the cardiac panel).

Clinical Case Studies Microbiology With Answers

Nader Rifai



Clinical Case Studies Microbiology With Answers:

Clinical Cases in Internal Medicine E-Book ePub Samy A. Azer,2020-02-01 This useful new book enables students to apply the theoretical knowledge gained in their medicine classes to clinical cases Students will improve their diagnostic skills as they are taken simply and logically through the steps of generating a differential diagnosis weighing up evidence to refine a hypothesis and constructing a management plan Author Samy Azer guides readers to use self directed learning to identify their learning needs and ultimately develop a deeper understanding of internal medicine Designed to complement and enhance recommended undergraduate medicine textbooks this book is easy to follow and written simply making it suitable for students who speak English as a second language More than 50 clinical cases covering the core undergraduate medicine curriculum Case discussions using a logical and scientific approach to help students achieve their own diagnoses Model answers for comparison to improve learning outcomes Summary of fundamental points for examination revision Useful up to date resources Short answer and multiple choice questions to test knowledge Diagrams and tables to deepen understanding and consolidate essential concepts Includes an Enhanced eBook version with purchase The enhanced eBook allows the end user to access all of the text figures and references from the book on a variety of devices [Learning Microbiology and Infectious Diseases: Clinical Case Prep for the USMLE®](#) Tracey A. H. Taylor,Dwayne Baxa,Matthew Sims,2020-01-27 High yield microbiology cases help students apply knowledge and prepare for board exams Learning Microbiology and Infectious Diseases Clinical Case Prep for the USMLE by Tracey A H Taylor Dwayne Baxa and Matthew Sims presents diverse cases that encourage problem based learning which is key to building diagnostic skills Each case portrays a real life scenario promoting a bridge from foundational knowledge to its application A series of USMLE style questions with thorough explanations provide an understanding of microbiology and infectious diseases an ability to differentiate between infections and viruses and identify bacteria fungi and parasites Questions cover causative agents disease transmission mechanism of pathogenesis action and pharmacotherapy Key Features 50 case studies with images mirror situations seen in everyday practice An intermingling of bacteriology virology mycology parasitology cases and organ systems reflect real world patient scenarios and encourage critical thinking Comprehensive cases encompass symptoms and duration medical and family history physical exam and lab findings differential diagnosis and treatment and prevention This essential highly practical resource will help medical students build problem solving skills assess microbiology and infectious disease knowledge and fully prepare for the boards **Learning Microbiology and Infectious Diseases: Clinical Case Prep for the USMLE®** Tracey Taylor,Dwayne Baxa,Matthew Sims,2020 Learning Microbiology and Infectious Diseases Clinical Case Prep for the USMLEa by Tracey A H Taylor Dwayne Baxa and Matthew Sims presents diverse cases that encourage problem based learning which is key to building diagnostic skills Each case portrays a real life scenario promoting a bridge from foundational knowledge to its application A series of USMLE style questions with thorough explanations provide an

understanding of microbiology and infectious diseases an ability to differentiate between infections and viruses and identify bacteria fungi and parasites Questions cover causative agents disease transmission mechanism of pathogenesis action and pharmacotherapy

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Case Files Microbiology, Third Edition Eugene C. Toy, Cynthia R. Skinner DeBord, Audrey Wanger, James D. Kettering, Anush S. Pillai, Ronald C. Mackenzie, 2014-09-22 LEARN MICROBIOLOGY IN THE CONTEXT OF REAL LIFE PATIENTS AND PREPARE FOR THE USMLE STEP 1 Experience with clinical cases is key to excelling on the USMLE Step 1 and shelf exams and ultimately to providing patients with competent clinical care Case Files Microbiology provides 54 true to life cases that illustrate essential concepts in this field Each case includes an easy to understand discussion correlated to essential basic science concepts definitions of key terms microbiology pearls and USMLE style review questions With Case Files you will learn instead of memorize Learn from 54 high yield cases each with board style questions and key point pearls Master complex concepts through clear and concise discussions Practice with review questions to reinforce learning Polish your approach to clinical problem solving Perfect for medical and dental students preparing for course exams and the Boards

Thieme Test Prep for the USMLE®: Learning Pharmacology through Clinical Cases Mario Babbini, Sandeep Bansal, 2018-01-10 Learning Pharmacology through Clinical Cases by Mario Babbini and Sandeep Bansal uniquely integrates the preclinical disciplines which is crucial for pharmacological problem solving and learning to think critically Each case portrays a real life scenario promoting a bridge from foundational knowledge to its application A series of USMLE style questions with thorough explanations guide the reader through a comprehensive understanding of relevant basic science disciplines such as physiology pathology and microbiology followed by a detailed analysis of the pharmacology Key Features Nearly 50 case studies mirror situations seen in every day practice In depth coverage of drugs in the context of specific disease states and clinical situations Comprehensive cases encompass medical family drug history physical examination lab findings diagnosis pharmacotherapy and follow up One set of multiple choice questions addresses related basic science content A second set covers topics related to the pharmacology such as mechanism of action adverse effects and contraindications This essential highly practical resource will help medical students build problem solving skills assess pharmacology knowledge and fully prepare for board examinations

Tietz Textbook of Laboratory Medicine - E-Book Nader Rifai, 2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition

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Case Studies in Clinical Laboratory Science Linda Graves,2002 This unique collection of 55 multidisciplinary case studies is designed to help laboratory technologists and technicians experience how departments work together to help the physician make a diagnosis and determine the best course of treatment for the patient In working through the comprehensive real world scenarios readers deal firsthand with interpreting data from two three or four disciplines Blood Bank Chemistry Hematology Immunology Microbiology Urinalysis integrating the facts laboratory data from different departments and thinking critically about what they mean Includes 55 cases 11 Blood Bank cases 12 Chemistry cases 10 Hematology Coagulation cases 5 Immunology Serology cases 10 Microbiology cases 7 Urinalysis cases Technicians and technologists who have been out of the field for awhile and are in the process of reentry into the profession and technicians and technologists who are looking for a general review of clinical laboratory science

Linne & Ringsrud's Clinical Laboratory Science E-Book Mary Louise Turgeon,2018-12-22 Thoroughly updated and easy to follow Linne Ringsrud s Clinical Laboratory Science Concepts Procedures and Clinical Applications 8th Edition offers a fundamental overview of the laboratory skills and techniques you ll need for success in the clinical laboratory Author Mary Louise Turgeon s simple and straightforward writing clarifies complex concepts and her unique discipline by discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with accurate effective results Topics like safety

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Cases and Concepts Aaron B. Caughey,2010 Cases Concepts Step 1 Basic Science Review helps medical students prepare for USMLE Step 1 by studying basic science topics combined with clinical data learning both the why of a principle and how it is seen in practice Working through 116 clinical cases in microbiology immunology pharmacology biochemistry genetics embryology behavioral science neuroscience and epidemiology the reader gains experience analyzing cases learns classic presentations of common diseases and syndromes and integrates basic science concepts with clinical applications Cases are followed by USMLE style questions with answers and rationales Thumbnail and Key Concept boxes highlight key facts A companion website offers fully searchable text online

Pathophysiology Brian L. Shaffer,2004 Each topic in this title features a case presentation followed by thought questions and a basic science review Thumbnails and key points provide a quick review of the essential information

Practical bacteriology, microbiology and serum therapy (medical and veterinary) Albert Besson,1913

Cases in Medical Microbiology and Infectious Diseases Peter H. Gilligan,Daniel S. Shapiro,Melissa B. Miller,2020-08-06 Cases in Medical Microbiology and Infectious Diseases challenges students to develop a working knowledge of the variety of microorganisms that cause infections in humans This valuable interactive text will help them better understand the clinical importance of the basic science concepts presented in medical microbiology or infectious disease courses The cases are presented as unknowns and represent actual case presentations of patients the authors have

encountered Each case is accompanied by several questions to test knowledge in four broad areas including the organism's characteristics and laboratory diagnosis pathogenesis and clinical characteristics of the infection epidemiology and prevention and in some cases drug resistance and treatment This new fourth edition includes an entirely new section Advanced Cases which includes newly recognized disease agents as well as highly complex cases where the interaction of the immune system and human pathogens can be more closely examined a revised Primer on the Laboratory Diagnosis of Infectious Diseases section that reflects the increasing importance of molecular based assays Forty two new cases that explore the myriad advances in the study of infectious disease in the past decade Thirty two updated cases that reflect the current state of the art as it relates to the organism causing the infection This textbook also include specific tools to assist students in solving the cases including a table of normal values glossary of medical terms and figures illustrating microscopic organism morphology laboratory tests and clinical symptoms Cases in Medical Microbiology and Infectious Diseases is a proven resource for preparing for Part I of the National Board of Medical Examiners Exam and an excellent reference for infectious disease rotations

Abstracts of the ... General Meeting of the American Society for Microbiology
American Society for Microbiology. General Meeting, 2008

Case Files Microbiology, Second Edition Eugene C. Toy, Cynthia R. Skinner DeBord, Audrey Wanger, Gilbert Anthony Castro, Donald Briscoe, James D. Kettering, 2008-05-18 More than 50 clinical cases help you excel in your microbiology coursework and on the USMLE Step 1 The Case Files series is an award winning learning system proven to improve exam scores This series helps you to learn in the context of real patients instead of simply memorizing Case Files Microbiology Second Edition presents 50 clinical cases with open ended questions which weave basic science concepts into the clinical scenario Each case includes an extended discussion including definitions and a pathophysiology discussion key points and 3 5 USMLE style comprehension questions The authors are experienced teachers from the University of Texas Houston Medical School in Houston Texas and Loma Linda University School of Medicine in Loma Linda California

Australasian Medical Gazette, 1910

Case Studies in Infectious Disease Peter Lydyard, Michael Cole, John Holton, Will Irving, Nino Porakishvili, Pradhib Venkatesan, Kate Ward, 2010-01-01 Case Studies in Infectious Disease presents forty case studies featuring the most important human infectious diseases worldwide Written for students of microbiology and medicine this book describes the natural history of infection from point of entry of the pathogen through pathogenesis followed by clinical presentation diagnosis and treatment Five core sets of questions are posed in each case What is the nature of the infectious agent how does it gain access to the body what cells are infected and how does the organism spread What are the host defense mechanisms against the agent and how is the disease caused What are the typical manifestations of the infection and the complications that can occur How is the infection diagnosed and what is the differential diagnosis How is the infection managed and what preventative measures can be taken to avoid infection This standardized approach provides the reader with a logical basis for understanding these diverse and medically important

organisms fully integrating microbiology and immunology throughout *Journal for Minority Medical Students*, 1999

The Microbe Files Marjorie Kelly Cowan, 2002 The book consists of a series of short cases that help you apply what you've learned by placing you in real life situations that allied health professionals face every day The six chapters in the book provide examples of infectious diseases presented to you in the way you will encounter them in your life or clinical practice The cases are grouped by chapter according to the body site that is most affected This mirrors what happens in clinical practice your first encounter with a patient's infection will be what you can see and what the patient can tell you **First Aid for the USMLE Step 1** Vikas Bhushan, 2000 This now famous stress reducing review book is written exclusively by medical students for medical students preparing for the USMLE Step 1 Up to date study topics pinpoint key areas of basic science and clinical material saving students valuable time Offers extensive mnemonics to facilitate rapid recall

Clinical Case Studies Microbiology With Answers Book Review: Unveiling the Power of Words

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