
Case-study in Bacteriology (Prof. Dr. Alaa Al-Charrakh):

1- Five children from the same school presented with abdominal pain and diarrhoea (streaked with blood) over a period of 3 days. Upon investigation it was found that one of the children had recently been abroad with his family. Fecal specimen was collected and sent to microbiology lab. Many pus cells on direct microscopy and non-lactose fermenting colonies were found on MacConkey's agar. On motility test it was non-motile

- a. What is the identity of the organism? b. What is the mode of spread?

2- A 30 years old man presented to out-patient gastroenterology clinic with the complaints of:

- Changed taste & bad breath
- Recurrent epigastric pain & heart burn

On gastroscopy he was diagnosed as having gastric ulcer. A biopsy was taken and sent to microbiology lab;

- a) What tests will be performed on the biopsy specimen?
b) What is the likely organism causing the disease?
c) What other lab tests will help to confirm the identity of the organism?

3- A previously normal, full-term infant developed bilateral conjunctivitis at 2 weeks of age. The conjunctivitis was followed by severe coughing, but the infant remained afebrile. When the infant was 4 weeks old, a chest X-ray showed bilateral symmetrical interstitial infiltrates. The white blood cell (WBC) count was $14,000/\text{mm}^3$ with 32% segmented neutrophils, 58% lymphocytes, 2% monocytes, and 4% eosinophils. Which of the following is the most probable infectious agent?

- A. *Chlamydia trachomatis* B. *Streptococcus agalactiae*
C. *Haemophilus influenza* D. *N. meningococcus*

4. A 16-year-old girl was admitted to a Merjan teaching hospital because of hypotension, cyanosis, high fever (39.9°C), and bilateral, non-fluctuant, inguinal, and axillary lymphadenopathy. The patient died the same day. Blood cultures obtained on admission were positive for bipolar-staining, short, gram-negative bacilli. What is the most probable etiologic agent?

- A. *Yersinia pestis* B. *K. rhinoscleromatis*

Clinical Case Studies Microbiology With Answers

**Peter Lydyard, Michael Cole, John
Holton, Will Irving, Nino
Porakishvili, Pradhib Venkatesan, Kate
Ward**

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. **Fundamentals of**

Microbiology Pommerville, 2017-05-08 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students' initial introduction to this exciting science.

Fundamentals of Microbiology Jeffrey C. Pommerville, 2017-05-02 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students' initial introduction to this exciting science. **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.

Problem-Based Learning Approach in Microbiology Khalid Mubarak Bindayna, Jameela Mohammed Al-Salman, 2023-01-30

Problem based Learning Approach in Microbiology is an organ based study of microbiology and infectious diseases using real patient problems cases and cases edited for educational purposes This approach uses case studies to stimulate interactive learning and to facilitate basic knowledge for clinical training In seven sections each problem in each section begins with a clinical case scenario and is followed by the learning objectives of the case The Question and answer section facilitates student tutor interaction thereby resulting in a problem solving approach The etiological agent is then described in complete detail comprising the epidemiology and pathogenicity of the agent and the host immune response clinical manifestations diagnostic and therapeutic measures This book includes a wide spectrum of commonly encountered infectious diseases emerging infectious diseases and immunological diseases This book caters to the need for fundamental knowledge through an alternative approach achieved by dividing the book into sections This book facilitates a more effective learning process thereby ensuring better information retention correlation with real life scenarios and better applicability of the concepts Provides real clinical cases ensuring exposure to real clinical cases and stimulating interactive learning in addition to enhancing the readers ability to correlate concepts in microbiology immunology and infectious diseases with real clinical cases Includes a question and answer section This section facilitates student teacher interaction thereby resulting in a problem solving approach and ensuring better retention of information In the Microbiology section each chapter focuses on the etiological agent responsible for the disease manifested in the particular case This section gives a comprehensive overview of the epidemiology and pathogenicity of the agent and also the host immune response clinical manifestations diagnostic and therapeutic measures

Clinical Cases in Critical Care Alice Myers, Theophilus Samuels, 2022-11-21

Clinical Cases in Critical Care In Clinical Cases in Critical Care the authors explore core clinical topics and basic sciences in a practical and realistic way and include comprehensive discussions focusing on critically unwell patients with a variety of presentations and underlying disorders including COVID 19 hypotension stroke and drug overdose Each case begins with a clinical vignette which generates a series of questions the reader must address Cases are expanded to discuss differential diagnoses investigations and management issues Further questions direct the reader to explore relevant clinical and scientific knowledge similar to the structure of many professional oral examinations The final section of the book consists of exam style questions in a multiple choice and single best answer style Perfect for medical practitioners working in critical care settings Clinical Cases in Critical Care provides a thorough and accessible reference for trainee physicians with an interest in critical and emergency care as well as allied health professionals in the field This engaging textbook will be an essential companion for anyone getting to grips with the foundation of specialist knowledge required by professionals working in intensive care medicine

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

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understanding application of principles then review again as you prep for exams Perfect for medical students physician assistants nurse practitioners and related health professionals will also find Blueprints Notes Cases valuable Study Guide for Jones & Bartlett Learning's Comprehensive Medical Assisting Judy Kronenberger, Julie Ledbetter, 2023-01-09 Master your course with the practice and hands on activities that will help you get ready for the medical office In this new edition of Study Guide for Jones Bartlett Learning's Comprehensive Medical Assisting the exercises and activities align with the most current Medical Assisting Education Review Board MAERB of the American Association of Medical Assistants AAMA curriculum standards The Study Guide is divided into sections that coincide with the textbook and includes exercises that reinforce the knowledge and skills required of all Medical Assistants *Core Clinical Cases* Marjorie Elisabeth Marion Allison, Stuart W. McDonald, 2008 Integrates the students knowledge of basic science with the realities of managing clinical problems This title includes 36 clinical cases addressing the major body system areas learning points which are designed to give a rounded explanation of the topic and model answers and marking schemes *Blueprints Clinical Cases Neurology* Kevin N. Sheth, Odette A. Harris, Tracey A. Cho, 2007 Offering preparation for students aiming to take their USMLE Steps 2 3 this book features 60 clinical cases 10 new to this edition 50 revised updated Each case consists of a clinical vignette followed by thought questions discussion ends with a question answer review bibliographic references *Blueprints Clinical Cases in Neurology Second Edition* offers third and fourth year medical students valuable preparation for clerkships and the USMLE Steps 2 and 3 The book features 60 clinical cases 10 new to this edition and 50 revised and updated from the first edition Each case consists of a clinical vignette followed by thought questions and discussion and ends with a question and answer review and a listing of suggested additional reading A question and answer section at the end of the book contains 100 USMLE format multiple choice questions and detailed answer explanations *Blueprints Clinical Cases in Neurology Second Edition* offers third and fourth year medical students valuable preparation for clerkships and the USMLE Steps 2 and 3 The book features 60 clinical cases 10 new to this edition and 50 revised and updated from the first edition Each case consists of a clinical vignette followed by thought questions and discussion and ends with a question and answer review and a listing of suggested additional reading A question and answer section at the end of the book contains 100 USMLE format multiple choice questions and detailed answer explanations 100+ Clinical Cases in Pediatrics R Arvind, 2016-04-30 100 Clinical Cases in Pediatrics is the latest edition of this comprehensive collection of cases in paediatrics ranging from the most common to the rare The book features 102 cases each with its own chapter covering presenting complaints patient history examination and clinical aspects from diagnosis to treatment This new edition is fully updated with the most recent advances in the field The book is enhanced by over 150 images and illustrations making this an ideal reference source for trainees residents and practising paediatricians *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 **100 Cases in Clinical**

Pathology Eamon Shamil,Praful Ravi,Ashish Chandra,2014-07-28 A 27 year old Ghanaian woman presents in the emergency department with a three day history of headache nausea and vague lower abdominal pain She has no significant past medical history but is eight weeks pregnant with her first child She lives in London and returned from a trip to Ghana two weeks ago You have been assigned her initial assessment 100 Cases in Clinical Pathology presents 100 clinical scenarios commonly seen by medical students and junior doctors in the emergency department outpatient clinic or in general practice in which an understanding of the underlying clinical pathology is central to arriving at the correct diagnosis A succinct summary of the patient s history examination and initial investigations histopathology chemical pathology haematology microbiology and clinical immunology as appropriate is followed by questions on each case with particular emphasis on the interpretation of the results and the arrival at a clinicopathologic diagnosis The answer includes a detailed discussion on each topic providing an essential revision aid as well as a practical guide for students and junior doctors Making speedy and appropriate clinical decisions and choosing the best course of action to take as a result is one of the most important and challenging parts of training to become a doctor These true to life cases will teach students and junior doctors to recognize important clinical conditions to request the appropriate pathological investigation and correctly interpret those results and as a result to develop their diagnostic and management skills **Clinical Cases in Pediatric Dentistry** Amr M. Moursi,Amy L.

Truesdale,2019-12-31 Maintaining the original popular format enjoyed by so many readers this Second Edition features comprehensive updates to all 66 cases to include the latest diagnostic and treatment techniques Each chapter also includes brand new cases for a total of 13 entirely new cases The most current references to the literature best practices and evidence based clinical guidelines plus new and updated self assessment questions with detailed answers and explanations have been added to all the cases This second edition maintains the same aim of presenting actual clinical cases to question and educate the reader on pediatric dentistry using a clear concise and consistent format to offer a case history diagnostics and treatment

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