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**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 ( $39.9^{\circ}\text{C}$ ), 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 Microbiology Case Study Questions With Answers

**Patrick R. Murray, Ken S.  
Rosenthal, Michael A. Pfaller**



## **Clinical Microbiology Case Study Questions With Answers:**

Medical Microbiology Patrick R. Murray, PhD, Ken S. Rosenthal, PhD, Michael A. Pfaller, MD, 2015-10-28 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text videos images and references from the book Thoroughly updated chapters include the latest information on the human microbiome and probiotics prebiotics including a new chapter on Human Microbiome In Health and Disease NEW chapter summaries introduce each microbe chapter including trigger words and links to the relevant chapter text on e book version on Student Consult providing a concise introduction or convenient review for each topic Online access to the complete text additional images 200 self assessment questions NEW animations and more is available through Student Consult      **Medical Microbiology** Michael Ford, 2019 This text examines medical microbiology from the viewpoint of the biomedical scientist based in a microbiology laboratory It explains the basis of key laboratory techniques as applied to medical microbiology including bacteriology mycology and virology how and why they work and what they can tell us      **Medical Microbiology E-Book** Patrick R. Murray, Ken Rosenthal, Michael A. Pfaller, 2015-09-15 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the

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**Clinical Biochemistry** Nessar Ahmed, 2017 Includes bibliographical references and index

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*Teaching and Learning Through Inquiry* Virginia S. Lee, 2023-07-03 Inquiry guided learning IGL refers to an array of classroom practices that promote student learning through guided and increasingly independent investigation of complex questions and problems Rather than teaching the results of others investigations which students learn passively instructors assist students in mastering and learning through the process of active investigation itself IGL develops critical thinking independent inquiry students responsibility for their own learning and intellectual growth and maturity The 1999 Boyer Commission Report emphasized the importance of establishing a firm grounding in inquiry based learning and communication of information and ideas While this approach capitalizes on one of the key strengths of research universities the expertise of its faculty in research it is one that can be fruitfully adopted throughout higher education North Carolina State University is at the forefront of the development and implementation of IGL both at the course level and as part of a successful faculty led process of reform of undergraduate education in a complex research institution This book documents and explores NCSU s IGL initiative from a variety of perspectives how faculty arrived at their current understanding of inquiry guided learning and how they have interpreted it at various levels the individual course the major the college the university wide program and the undergraduate curriculum as a whole The contributors show how IGL has been dovetailed with other complementary efforts and programs and how they have assessed its impact The book is divided into four parts the first briefly summarizing the history of the initiative Part Two the largest section describes how various instructors departments and colleges in a range of disciplines have interpreted inquiry guided learning It provides examples from disciplines as varied as ecology engineering foreign language learning history music microbiology physics and psychology It also outlines the potential for even broader dissemination of inquiry guided learning in the undergraduate curriculum as a whole Part Three describes two inquiry guided learning programs for first year students and the interesting ways in which NCSU s university wide writing and speaking program and growing service learning program support inquiry guided learning Part Four documents how the institution has supported instructors and how they have supported themselves as well as the methods used to assess the impact of inquiry guided learning on students faculty and the institution as a whole The book has been written with three audiences in mind instructors who want to use inquiry guided learning in their classrooms



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