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/mm³ 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

Medical Microbiology Case Studies With Answers

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

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Case Studies in Medical Microbiology Cedric A. Mims, Gillian Urwin, Mark A. Zuckerman, 1994-01-01 Covers upper respiratory tract infections infections of the eye multisystem zoonoses pyrexia of unknown origin etc 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 guestions 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 faculty developers considering supporting comparable efforts on their campuses and administrators interested in managing similar undergraduate reform efforts It will also appeal to instructors of courses in the administration of higher education who are looking for relevant case studies of reform While this is a model successfully implemented at a research university it is one that is relevant for all institutions of higher education Breaking Barriers with Generative Intelligence. Using GI to Improve Human

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Case Studies in Microbiology Rodney P. Anderson, Linda Young, 2011-10-25 This first edition text developed and evolved to meet three pedagogical goals we deemed essential for those studying allied health and are pre professional The use of microbiology case studies were modified to maintain their value as tools that result in critical thinking and knowledge retention while providing a more realistic context for preparing future health care professionals Consequently the text has real life personally oriented microbiology cases appropriate for those in nursing pharmacy and other allied health disciplines pre med pre PA CLS etc This format presents material as a story about the patient as well as information regarding their family circumstances personal characteristics and individual motivations

The Microbe Files Marjorie Kelly Cowan, 2002
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