

Clinical Bacteriology

Midterms Notes

Specimen collection and transportation are critical considerations, because any results the laboratory generates is limited by the quality of the specimen and its condition on arrival in the laboratory

Careful skin preparation before procedures such as blood cultures and spinal taps decreases the chance that organisms normally present on the skin will contaminate the specimen.

GENERAL CONSIDERATIONS

1. Specimens should be collected during the acute (early) phase of an illness (or within 2-3 days for viral infection)

2. If possible, specimens should be collected before antibiotics are administered

3. Swabs are generally poor specimens (except nares and throat specimens) if tissue and needle aspirates can be obtained

a. For anaerobes, aspirates are preferred to swabs

4. The specimen collected should be a representation of the diseased area

5. The quantity of the specimen should be sufficient enough for diagnostic testing

SPECIMEN TRANSPORT

1. Ideally, specimens should be transported to the laboratory within 30 minutes of collection

a. For anaerobic bacteria, transport should not take more than 10 minutes

b. For CSF samples, it should be transported within 15 minutes

2. All specimen containers should be leak-proof

3. All specimens should be transported within sealable, leak-proof, plastic bag; specimen

bags should be marked with biohazard label

4. Use of appropriate special preservatives or holding media for transport of specimen delayed for more

than 30 minutes is important in ensuring organism viability

a. Examples:

Changes in temperature – *Neisseria meningitidis*

Changes in pH – *Shigella* spp.

SPECIMEN PRESERVATION

1. Preservatives

a. Boric acid – maintains the appropriate colony counts (urine)

b. Polyvinyl alcohol (PVA) – maintains the integrity of trophozoites and cysts (stool)

c. Buffered formalin

2. Transport of holding media

a. Maintains the viability of microorganisms present in a specimen without supporting the growth of any of the organisms

b. Charcoal sometimes is added to these media to absorb fatty acids present in the specimen that could kill fastidious organisms (*Neisseria gonorrhoeae* and *Bordetella pertussis*)

c. Examples: Stuart's medium, Amie's medium, Cary Blair, Transgrow, JEMBEC

Anticoagulants

- Used to prevent clotting of blood, bone marrow and synovial fluid

- 0.025% (w/v) Sodium Polyanethol Sulfonate (SPS) – this concentration of SPS is used because *Neisseria* spp and some anaerobic bacteria are sensitive to higher concentrations

- Heparin – used for viral cultures, it may inhibit the growth of g(+) bacteria and yeast

Specimen Storage

- If specimen cannot be processed immediately after receiving it in the laboratory, they must be stored at

Clinical Bacteriology

Kathleen Armour



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Clinical Bacteriology J. Keith Struthers, Roger P. Westran, 2003-07-21 In this concise beautifully illustrated book the authors introduce the reader to the basic science of medical bacteriology and relate this to clinical practice By integrating the text with over 270 full colour diagrams and selected photomicrographs the book explains the essentials of bacterial infection and it also provides the basis for logical diagnostic and management strategies including the use of antibiotics Following introductory chapters on the nature structure and function of bacteria diagnostic methods and antibiotic use the principles are then applied to each organ system Here relevant aspects of epidemiology pathogenesis diagnosis treatment and public health are covered There are chapters on infection in a modern society including the immunocompromised patient and infection control in the hospital and community In the context of new problem based curricula this book will be welcomed especially by medical students trainee physicians and microbiologists laboratory biomedical scientists and nurses working in infection control

Basic Laboratory Procedures in Clinical Bacteriology Vandepitte J., World Health Organization, 2003-12-31 The 2nd edition of this publication updates the various guidelines produced by the World Health Organization on the sampling of specimens for laboratory investigation identification of bacteria and the testing of antibiotic resistance focusing on quality control and assessment procedures to be followed rather than on basic techniques of microscopy and staining The publication is split into two parts part one deals with bacteriological investigations regarding blood cerebrospinal fluid urine stools upper and lower respiratory tract infections sexually transmitted diseases purulent exudates wounds and abscesses anaerobic bacteriology antimicrobial susceptibility testing and serological tests and part two considers key pathogens media and diagnostic reagents

Principles and Practice of Clinical Bacteriology Stephen Gillespie, Peter M. Hawkey, 2006-05-12 Since the publication of the last edition of Principles and Practice of Clinical Bacteriology our understanding of bacterial genetics and pathogenicity has been transformed due to the availability of whole genome sequences and new technologies such as proteomics and transcriptomics The present completely revised second edition of this greatly valued work has been developed to integrate this new knowledge in a clinically relevant manner Principles and Practice of Clinical Bacteriology Second Edition provides the reader with invaluable information on the parasitology pathogenesis epidemiology and treatment strategies for each pathogen while offering a succinct outline of the best current methods for diagnosis of human bacterial diseases With contributions from an international team of experts in the field this book is an invaluable reference work for all clinical microbiologists infectious disease physicians public health physicians and trainees within these disciplines

Elements of Clinical Bacteriology for Physicians and Students Felix Klemperer, Ernst Levy, 1900

Genomics, Proteomics, and Clinical Bacteriology Neil Woodford, Alan P. Johnson, 2008-02-05 Gazing into crystal balls is beyond the expertise of most scientists Yet as we look further into the 21st century one does not have to be Nostradamus to predict that the current genomics and proteomics revolution will have an immense impact on

medical bacteriology This impact is already being realized in many academic departments and although encroachment on routine diagnostic bacteriology particularly in the hospital setting is likely to occur at a slower pace it remains nonetheless inevitable Therefore it is important that no one working in bacteriology should find themselves distanced from these fundamental developments The involvement of all clinical bacteriologists is essential if the significant achievements of genome sequencing and analysis are to be turned into tangible advances with resulting benefits for patient care and management It is our hope that Genomics Proteomics and Clinical Bacteriology Methods and Reviews will play a part in bringing such a development to fruition The advances in genomics and proteomics have already given us frequent opportunities to reassess our knowledge and understanding of established bacterial adversaries and have provided us with the means to identify new foes The new knowledge gained is enabling us to reconsider for example our concepts of bacterial pathogenicity phylogeny and novel targets for antibacterial chemotherapy These topics and others are considered in Genomics Proteomics and Clinical Bacteriology Methods and Reviews

Clinical Bacteriology J. Keith Struthers, Roger P. Westran, 2003-07-21 A concise beautifully illustrated book which introduces the basic science of medical bacteriology and relates it to clinical practice Explains the essentials of bacterial infection and also provides the basis for logical diagnostic and management strategies including the use of antibiotics

A Practical Guide to Clinical Bacteriology John R. Pattison, 1995-08-03 For more than a century bacteriology has been an important subject for the medical profession The continuing discovery of new micro organisms new bacterial disease and new antibiotics and approaches to the control of bacterial infection will ensure its continuing significance in medicine and health care This highly practical well illustrated quick reference guide to clinical bacteriology provides a thorough grounding in the subject in an informative yet lively and entertaining manner Beginning with general principles of bacteriology the book then provides a succinct and readable account of the bacteria of medical importance describing in uniform the relevant symptoms signs and complications as well as epidemiology treatment and prevention and laboratory diagnosis Packed with information this book will enjoy wide appeal particularly amongst hospital and community physicians nurses students of medicine and biology laboratory technicians and health professionals Other Titles of Interest from Wiley Include A Practical Guide to Clinical Virology 1989 Edited by G Haukenes L R Haaheim and J R Pattison Bacteria in Biology Biotechnology and Medicine 3rd Edition 1995 by Paul Singleton

Methods in Clinical Bacteriology Dorothy Branson, 1972

Elements of Clinical Bacteriology for Physicians and Students Felix Klemperer, Ernst Levy, 1900

Handbook of Media for Clinical Microbiology James W. Snyder, Ronald M. Atlas, 2006-05-17

While evolving molecular diagnostic methods are being heralded for the role they will play in improving our ability to cultivate and identify bacteria fungi and viruses the reality is that those new methods are still beyond the technical and financial reach of most clinical laboratories Most clinical microbiology laboratories still rely upon cu

Laboratory Procedures in Clinical Bacteriology, 1963 United States. Department of the Army, 1963

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bacteriology for physicians and students Felix Klemperer,1900 *Clinical Bacteriology and Haematology for Practitioners* Walter d'Este Emery,1908 *Clinical Microbiology and Infectious Diseases* W. John Spicer,2007-11-30

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nonfermenting Gram negative bacteria The objective of this reference book is to accumulate scientific information in the discipline of glucose nonfermenting bacteria encountered in clinical microbiology by assembling a group of specialists in this area

Manual of Commercial Methods in Clinical Microbiology, 2016-03-28 The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology and reviews the sensitivities specificities and predictive values and subsequently the effectiveness of commercially available methods both manual and automated This text allows the user to easily summarize the available methods in any particular field or for a specific pathogen for example what to use for an Influenza test a Legionella test or what instrument to use for identification or for an antibiotic susceptibility test The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition presents a wealth of relevant information to clinical pathologists directors and supervisors of clinical microbiology infectious disease physicians point of care laboratories professionals using industrial applications of diagnostic microbiology and other healthcare providers The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory hospital clinic or setting Updated to appeal to an international audience The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition is an invaluable reference to those in the health science and medical fields

MALDI-TOF and Tandem MS for Clinical Microbiology Haroun N. Shah, Saheer E. Gharbia, 2017-03-30 This book highlights the triumph of MALDI TOF mass spectrometry over the past decade and provides insight into new and expanding technologies through a comprehensive range of short chapters that enable the reader to gauge their current status and how they may progress over the next decade This book serves as a platform to consolidate current strengths of the technology and highlight new frontiers in tandem MS MS that are likely to eventually supersede MALDI TOF MS Chapters discuss Challenges of Identifying Mycobacterium to the Species level Identification of Bacteroides and Other Clinically Relevant Anaerobes Identification of Species in Mixed Microbial Populations Detection of Resistance Mechanisms Proteomics as a biomarker discovery and validation platform Determination of Antimicrobial Resistance using Tandem Mass Spectrometry

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