Case Studies in Clinical Laboratory Science

Linda Graves Ed.D. MT (ASCP), Elizabeth Gockel-Blessing
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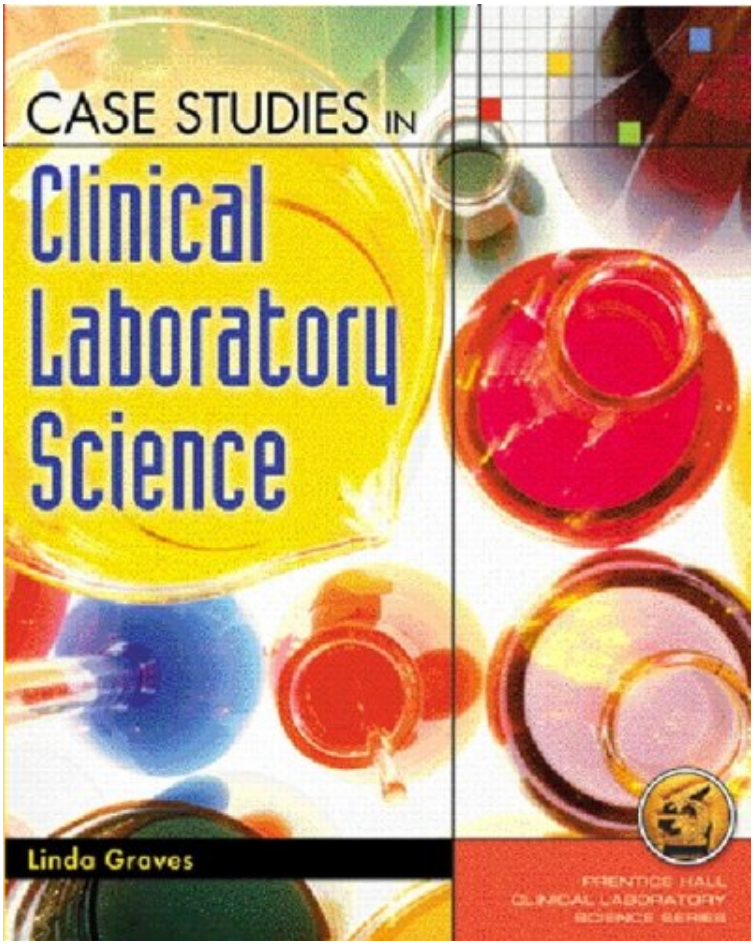

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This unique collection of 55 multidisciplinary case studies is designed to help laboratory technologists and technicians "experience" how departments work together to help the physician make a diagnosis and determine the best course of treatment for 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.

From the Back Cover Case Studies in Clinical Laboratory Science Unique in its approach and comprehensive in subject matter, Case Studies in Clinical Laboratory Science is the only text to present case studies from the broad spectrum of disciplines within the clinical laboratory science field. Going beyond the traditional medical model of case studies, real-life scenarios are presented that not only correlate results with disease states, but also serve as problem-solving and critical thinking exercises. A multidisciplinary approach allows one to experience how departments work together to help health professionals make a diagnosis and determine the best course for treatment. Features Include: 55 Case Studies in 6 main disciplines that include relevant data from the patient's medical history and physical examination as well as laboratory results. 11 Blood Bank Cases 12 Chemistry Cases 10 Hematology Cases 5 Immunology Cases 10 Microbiology Cases 7 Urinalysis Cases Critical Thinking Questions presented for each case study that test analysis, synthesis and evaluation. References included within each case study provide sources for current up-to-date information. Other Titles of Interest Leach, Outline of Clinical Laboratory Science, 0-13-018404-7 Ciulla, Prentice Hall Health's of Clinical Laboratory Science, 3/e, 0-8385-0340-3 Fremgen/Bloom, Phlebotomy, 0-8359-6164-8 Becan-McBride/Garza, Prentice Hall Health's QA for Phlebotomy, 5e, 0-13-088715-3 McKenzie, Hematology, 0-13-019996-6 Excerpt. Reprinted by permission. All rights reserved. Case Studies in Clinical Laboratory Science was developed as a textbook to be used by students in the final semester or year of their 2- or 4-year clinical laboratory science programs. It will be most appropriate for students who have completed the didactic/theory portion of their education. 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 will also find these cases a valuable exercise. Case Studies in Clinical Laboratory Science consists of 55 cases in six main disciplines: * 11 blood bank cases * 12 chemistry cases * 10 hematology cases * 5 immunology cases * 10 microbiology cases * 7 urinalysis cases Each case has * A case presentation (including relevant data from the patient's medical history and physical examination as well as laboratory results) * Questions * References * Answers The answers are located in the appendix. Students will get more out of the exercise if they make a concerted effort to answer the questions before looking up the answers. If they are unable to answer the question from textbooks or class notes, the lists of references and suggested readings are sure to provide the relevant facts. Many of the references include Web sites that provide up-to-date information. The cases provide an extensive review of important information in each of the areas. Many cases are multidisciplinarytying together data from two, three, or four departmentsto get students to see the big picture. Students often do not integrate the material from the various clinical laboratory disciplines as much as program directors and faculty would expect. Students don't make the connections between departments; each discipline remains in its own little box. These cases give students the opportunity to "experience" how departments work together to help the physician make a diagnosis and determine the best course of treatment for the patient. The cases are problem-solving and critical-thinking exercises, which also review pathophysiology (disease process), etiology (cause), and epidemiology. Questions like "What would you do next?" "What test(s) would the physician order?" "What other tests might be useful to determine the patient's status?" "Are these results consistent with other laboratory values or the patient's diagnosis?" give students the experience of making some of the decisions they will be making as laboratory professionals. They will be part of a health care team and should be ready to answer questions and provide physicians with the information they need. These cases are also an excellent way for students to gain skills in keeping up with the latest developments in clinical laboratory science. As we all know, the field is changing so fast that technicians and technologists who don't keep up with the latest developments are soon left behind. Clinical laboratory professionals need to be concerned with interpretation of data across disciplines, correlation of results to disease, problem solving, and quality assurance. Case in Clinical Laboratory Science will provide readers with some experience dealing with "real" situations. Excerpt. Reprinted by permission. All rights reserved. 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