

CLINICAL INTERNSHIP 1
CLINICAL CHEMISTRY

OVERVIEW OF AUTOMATED CLINICAL CHEMISTRY TESTS

Machines used in sequence:

- For routine chemistry tests:
 - Siemens Dimension
 - Pentra C400
- For blood gas and electrolyte tests:
 - OPTI-CCA TS

Clinical chemistry evaluates the biochemical components of the liquid portion of the blood which is plasma/ serum. Most commonly used specimen is serum.

*What are the different tests in clinical chemistry?

- **Kidney Function Test** which include creatinine, blood urea nitrogen (BUN) and uric acid.
 - ❖ **Creatinine and BUN** measures kidney function.
 - ❖ **Creatinine** is the more specific test and is done using either enzymatic or colorimetric methods. Enzymatic is said to be the better method for the determination of any laboratory tests.
 - ❖ **Uric acid** is not really a kidney function test but it can also attest kidney function, while it's also an indicator of joint diseases especially rheumatoid, gouty arthritis and other types of arthritis.
- **Liver or Hepatic Panel** this includes ALT (SGPT), AST (SGOT), total protein, albumin, globulin, alkaline phosphatase, direct and indirect bilirubin and GGT (an indicator of alcoholic cirrhosis) while all other test will test liver function.
 - ❖ **Prothrombin time** is also part of the hepatic panel, it can assess several clotting factors and also vitamin K dependent this includes factors 2, 7, 9 and 10.
 - ❖ **Clotting factors: 2, 7, 9, and 10** - independent on prothrombin time because they are **vitamin K dependent**.
- **Thyroid Panel** this includes TSH, Free T3, Free T4, T3 and T4.
 - ❖ All of this test will attest hyperthyroidism, hypothyroidism and euthyroidism.
- **Executive Panel #3/ Cardiac Panel** it will assess cardiac enzymes like the CKMB (creatinine-kinase-MB) and AST.
 - ❖ The most accurate cardiac enzyme is called the **CKMB** because it is more secreted by the cardiac muscle and it is not so concentrated in the skeletal muscle.
 - ❖ The most specific protein and the most specific cardiac muscle is **Troponin.**
 - It has two types: **Troponin T and Troponin I**
 - Both are specific except the troponin I lacks periodicity compared to troponin T. **Troponin I** is more specific. Other tests in cardiac function although it is not done in the hospital includes myoglobin and AST (not anymore part of the cardiac panel).

Clinical Chemistry Case Studies Answers

**Michael L. Bishop, Janet L. Duben-
Engelkirk, Edward P. Fody**



Clinical Chemistry Case Studies Answers:

Clinical Chemistry: Principles, Techniques, and Correlations Michael L. Bishop, 2022-03-10 Medical Lab Science students need a strong foundation in applied chemistry need to learn and demonstrate mastery of the required knowledge skills and competencies as specified by certifying bodies and accreditation organizations to be prepared for certification and employment as a professional medical assistant ear explanations that balance analytic principles techniques and correlation of results with coverage of disease states For over 30 years and 8 editions Bishop has gained the reputation in the market as the trusted resource written by Clinical Lab Scientists specifically for CLS students Many of the leading books on the market are adapted from general chemistry textbooks while Bishop sets itself apart from the competition by its logical organization reorganize the chapter order to reflect clinical chemistry flow in most courses today Individual chapter content will be based on the ASCLS Entry Level Curriculum A map of how the textbook correlates to the ASCLS curriculum will be provided as an instructor resource Bishop not only demonstrates the how of clinical testing but also the what why and when of testing correlations to help students develop the knowledge and interpretive and analytic skills they will need in their future careers

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 **Linne & Ringsrud's**

Clinical Laboratory Science E-Book Mary Louise Turgeon, 2018-12-22 Thoroughly updated and easy to follow Linne Ringsrud s Clinical Laboratory Science Concepts Procedures and Clinical Applications 8th Edition offers a fundamental overview of the laboratory skills and techniques you ll need for success in the clinical laboratory Author Mary Louise Turgeon s simple and straightforward writing clarifies complex concepts and her unique discipline by discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with accurate effective results Topics like safety measurement techniques and quality assessment are woven throughout the various skills The new eighth edition also features updated content including expanded information on viruses and automation It s the must have foundation for anyone wanting to pursue a profession in the clinical lab Broad content scope provides an ideal introduction to clinical laboratory science at a variety of levels including CLS MT CLT MLT and Medical Assisting Case studies include critical thinking and multiple choice questions to challenge readers to apply the content to real life scenarios Expert insight from respected educator Mary Lou Turgeon reflects the full spectrum of clinical lab science Detailed procedures guides readers through the exact steps performed in the lab Vivid full color illustrations familiarize readers with what they ll see under the microscope

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Clinical Laboratory Science - E-Book Mary Louise Turgeon,2022-09-14 Selected for Doody s Core Titles 2024 in Laboratory Technology Using a discipline by discipline approach Turgeon s Clinical Laboratory Science Concepts Procedures and Clinical Applications 9th Edition provides a fundamental overview of the concepts procedures and clinical applications essential for working in a clinical laboratory and performing routine clinical lab tests Coverage includes basic laboratory techniques and key topics such as safety phlebotomy quality assessment automation and point of care testing as well as discussion of clinical laboratory specialties Clear straightforward instructions simplify laboratory procedures and are guided by the latest practices and CLSI Clinical and Laboratory Standards Institute standards Written by well known CLS educator Mary Louise Turgeon this edition offers essential guidance and recommendations for today s laboratory testing methods and clinical applications Broad scope of coverage makes this text an ideal companion for clinical laboratory science programs at various levels including CLS MT CLT MLT medical laboratory assistant and medical assisting and reflects the taxonomy levels of the CLS MT and CLT MLT exams Detailed procedure guides and procedure worksheets on Evolve and in the ebook familiarize you with the exact steps performed in the lab Vivid full color illustrations depict concepts and applicable images that can be seen under the microscope An extensive number of certification style multiple choice review questions are organized and coordinated under major topical headings at the end of each chapter to help you assess your understanding and identify areas requiring additional study Case studies include critical thinking group discussion questions providing the opportunity to apply content to real life scenarios The newest Entry Level Curriculum Updates for workforce entry published by the American Society for Clinical Laboratory Science ASCLS and the American Society for Clinical Pathology ASCP Board of Certification Exam Content Outlines serve as content reference sources Convenient glossary makes it easy to look up definitions without having to search through each chapter An Evolve companion website provides convenient access to animations flash card sets and additional review questions Experienced author speaker and educator Mary L Turgeon is well known for providing insight into the rapidly changing field of clinical laboratory science

Case

Studies in Clinical Laboratory Science Linda Graves, 2002 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 Clinical Chemistry Michael L. Bishop, Janet L. Duben-Engelkirk, Edward P. Fody, 2000 Written in a concise readable style the Fourth Edition of this leading text continues to set the standard in the constantly evolving field of clinical chemistry Completely revised and updated this text reflects the latest developments in clinical chemistry Recent advances in quality assurance PCR and laboratory automation receive full coverage The immunochemistry chapter has been expanded to reflect the latest technological advances and two entirely new chapters on cardiac function and point of care testing have been added Chapters have been combined and restructured to match the changes that have occurred in the clinical laboratory Plus the contributors continue to be the leaders in the field of clinical chemistry Other text features include outlines objectives case studies practice questions and exercises a glossary and more **Clinical Chemistry Review** Anna P. Ciulla, 1985 **Clinical Chemistry** Theresa Dean, Sheryl Whitlock, 1997 This complete procedural manual offers laboratory technicians hands on coverage of all aspects of clinical chemistry Using numerous real world case studies it fully examines test principles and demonstrates correct test techniques and procedures Effective quality control and safety procedures are incorporated throughout 55 illus *Principles of Clinical Chemistry* Kenneth E. Blick, Suzanne Martin Liles, 1985 A structured easy to view guide for practicing technologists and chemistry majors preparing for the specialty registry exam in clinical chemistry The book treats advances in the field including therapeutic drug monitoring and toxicology new developments in endocrinology management aspects of computerized lab and predictive value model Each chapter includes learning objectives a detailed chapter outline a test and many solved examples Selected case histories demonstrate how laboratory results are utilized in diagnostic studies Pharmacotherapy Casebook Terry L. Schwinghammer, Julia M. Koehler, 2011-08-05 More than 150 cases help you develop the problem solving and decision making skills necessary to succeed in real world clinical practice Pharmacotherapy Casebook provides the case studies you need to learn how to identify and resolve drug therapy problems you're most likely to encounter in real world practice This new edition is packed with 157 patient cases and makes the ideal study companion to the eighth edition of DiPiro's Pharmacotherapy A Pathophysiologic Approach The case chapters in this book are organized into organ system

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Case Studies in Clinical Biochemistry Michael Julian Murphy, Rajeev Srivastava (Clinical biochemist), Allan Gaw, 2012 Clinical Biochemistry is about patients how we investigate their signs and symptoms how we diagnose their illnesses and how we treat them In this book the authors present a series of clinical cases all based on real patients and invite the reader to answer key questions using their knowledge and experience of each topic Each case and its questions are accompanied by the authors detailed answers which can be found by simply turning the page As such it is an ideal revision aid for those studying Medicine Nursing and Biomedical Sciences and for those preparing for post graduate membership examinations

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