

**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).

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**William J. Marshall**



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**Phytoceuticals in Food for Health and Wellness** Tanmay Sarkar, Slim Smaoui, Wing-Fu Lai, 2025-09-01 Phytoceuticals in Food for Health and Wellness Harnessing Plant Therapeutics emphasizes the growing interest of the potential health benefits of phytochemicals in wellness and product development by uncovering innate bioactive compounds found in plants Highlighting the diverse classes of phytochemicals including flavonoids carotenoids polyphenols antioxidants and alkaloids the book explores the sources chemical structures and distribution in various plants and what role they play in nutrition and disease prevention Phytoceutical and phytochemical approaches targeting immunity obesity cancer respiratory gut cardiovascular and eye health and more will be discussed Through traditional and modern extraction methods Phytoceuticals in Food for Health and Wellness Harnessing Plant Therapeutics also demonstrates how plant bioactives can be used for fortifying foods for optimal nutrition innovating in product development and developing the use of phytochemicals in culinary and food manufacturing applications to maximize flavor and extend shelf life Discusses plant based compounds and their role in food health and disease Explores distribution of flavonoids carotenoids and phenolic compounds for optimal bioactive content Provides insights to plant antioxidant anti inflammatory anticancer and neuroprotective properties Explains interactions between phytochemicals and the human body Integrates phytochemicals into culinary practices for flavor enhancement and functional food development *Library & Information Science Abstracts*, 2004

**Dietary, Sensory and Gastronomic Applications** Tanmay Sarkar, Slim Smaoui, 2025-11-13 Dietary Sensory and Gastronomic Applications Exploring Unconventional Food Sources Volume 2 showcases how untapped food sources can be harnessed for product development Highlighting dietary enrichment heightened sensory experiences and enhanced functional attributes this book provides insights into innovative plant based ingredient solutions for those wanting to take their products to the next level to meet myriad dietary needs in a sustainable way Dietary Sensory and Gastronomic Applications Exploring Unconventional Food Sources Volume 2 takes a deep dive into exploring microbes for food production and consumption and looks at the challenges and opportunities for product shelf life extension texture modification sugar substitutions and natural pigmentation enhancement It also explores novel texturizers emulsifiers and surfactants and acidulants and pH regulators to achieve enhanced sensory characteristics such as mouthfeel flavor balance and umami The book concludes with innovations in edible packaging the use of functional and designer lipids for the food industry and how to navigate the challenges around these new culinary innovations A complementary volume highlighting the health nutrition and sustainability of unconventional foods and how they can diversify diets and enhance future meals is also available Discusses non traditional ingredient solutions for product innovation Highlights unconventional and underutilized ingredients for enhanced sensory appeal Provides insight to sustainable sources of alternative fiber for diversified dietary needs Explores microbial characteristics of unconventional foods for culinary applications and new product development Uncovers sustainable

solutions for food packaging innovation Genetic Engineering News, 2001 *Multiple Choice Questions and Case Histories in Clinical Chemistry* D. McDowell, C. Weinkove, 1989 **Chemistry Case Studies for Allied Health Students** Colleen Kelley, 2006 **A Case Oriented Approach Towards Biochemistry** Namrata Chhabra, 2012-12-30 Presented as case studies this book provides students with up to date logical coverage of basic biochemistry with normal and abnormal aspects of physiological chemistry Each section features case studies discussing different disorders and conditions in topics including chemistry and metabolism of carbohydrates lipids amino acids proteins and nucleotides as well as vitamins minerals hormones diet and detoxification Each case is presented in a problem solving approach describing the history clinical manifestations and laboratory findings of the disease assisted by detailed illustrations The final sections offer normal laboratory reference values and case studies and answers for self assessment Key points Case studies presented in problem solving approach covering history clinical manifestations and laboratory findings of biochemistry of different diseases and conditions Separate sections dedicated to AIDS cancer molecular biology organ function tests and water and electrolyte imbalance Includes normal laboratory reference values and case studies for self assessment **Review and Case Studies** Roger L. Boeckx, Thomas P. Moyer, 1984 **Clinical Chemistry Self-assessment** Marge A. Brewster, Charles P. Turley, Alan H. B. Wu, 1989 **Clinical Chemistry Self-Assessment** Marge A. Brewster, 1982 *Tietz Textbook of Laboratory Medicine - E-Book* Nader Rifai, 2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more Authoritative current content helps you perform tests in a cost effective timely and efficient manner provides expertise in managing clinical laboratory needs and shows how to be responsive to an ever changing environment Current guidelines help you select perform and evaluate the results of new and established laboratory tests Expert internationally recognized chapter authors present guidelines representing different practices and points of view Analytical criteria focus on the medical usefulness of laboratory procedures Use of standard and international units of measure makes this text appropriate for any user anywhere in the world Elsevier eBooks provides the entire text as a fully searchable eBook and includes animations podcasts more than 1300 clinical case studies over 2500 multiple choice questions a lecture series and more all included with print purchase NEW 19 additional chapters highlight various specialties throughout laboratory medicine NEW Updated peer reviewed content provides the most current information possible NEW The largest ever compilation of clinical cases in laboratory medicine is

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