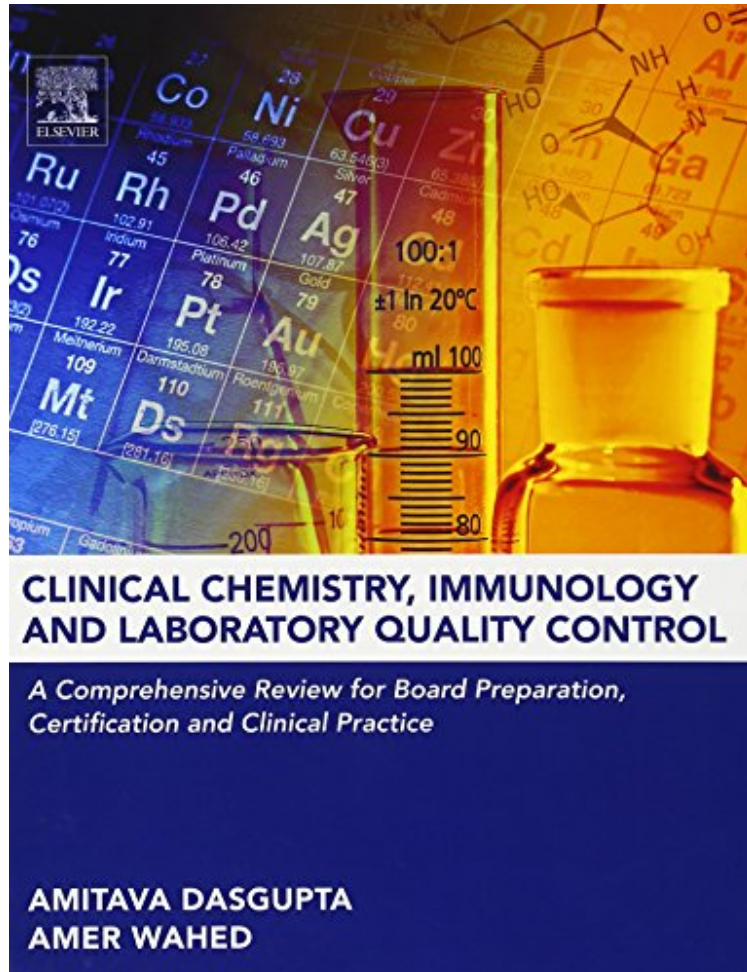


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# Clinical Chemistry, Immunology and Laboratory Quality Control: A Comprehensive Review for Board Preparation, Certification and Clinical Practice

Amer Wahed

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All pathology residents must have a good command of clinical chemistry, toxicology, immunology, and laboratory statistics to be successful pathologists, as well as to pass the American Board of Pathology examination. Clinical chemistry, however, is a topic in which many senior medical students and pathology residents face challenges. Clinical Chemistry, Immunology and Laboratory Quality Control meets this challenge head on with a clear and easy-to-read presentation of core topics and detailed case studies that illustrate the application of clinical chemistry knowledge to everyday patient care. This basic primer offers practical examples of how things function in the pathology clinic as well as useful lists, sample questions, and a bullet-point format ideal for quick pre-Board review. While larger textbooks in clinical chemistry provide highly detailed information regarding instrumentation and statistics, this may be too much information for students, residents, and clinicians. This book is designed to educate senior medical students, residents, and fellows, and to "refresh" the knowledge base of practicing clinicians on how tests are performed in their laboratories (i.e., method principles, interferences, and limitations). Takes a practical and easy-to-read approach to understanding clinical chemistry and toxicology Covers all important clinical information found in larger textbooks in a more succinct and easy-to-understand manner Covers essential concepts in instrumentation and statistics in such a way that fellows and clinicians understand the methods without having to become specialists in the field Includes chapters on drug-herb interaction and pharmacogenomics, topics not covered by textbooks in the field of clinical chemistry or laboratory medicine

About the Author Amer Wahed is a graduate of Medicine, training initially in Internal Medicine at Royal Postgraduate Medical School, London, England. He subsequently trained in Anatomic and Clinical Pathology from the University of Texas-Houston Medical School. After working for several years in a private setting, he joined the Department of Pathology and Laboratory Medicine at the University of Texas-Houston Health Sciences Center. Currently he is an Assistant Professor of Pathology and Laboratory Medicine and Associate Director of Clinical Chemistry and Immunology at Memorial-Hermann Hospital at the Texas Medical Center. He is also the Associate Director of the Pathology Residency Program at the University of Texas-Houston Medical School. Dr. Wahed has a strong interest in teaching and is actively involved in the education of medical students, graduate students, residents, and fellows. He has been recognized for his teaching contributions through awards from his department, as well as the Office of the Dean. He is also active in mentoring pathology residents in research and has published multiple papers in peer-reviewed journals. Amitava Dasgupta received his PhD degree in Chemistry from Stanford University and his fellowship training in Clinical Chemistry from the Laboratory Medicine Department of the University of Washington School of Medicine at Seattle. He is a tenured Full Professor of Pathology and Laboratory Medicine at the University of Texas Health Sciences Center located at the Texas Medical Center at Houston. Dr. Dasgupta has published 210 scientific papers, written many invited review articles, and has edited, co-edited or written 15 books. He is on the Editorial Board of five major medical journals including American Journal of Clinical Pathology, Archives of Pathology and Laboratory Medicine, Therapeutic Drug Monitoring, Clinica Chimica Acta and Journal of Clinical Laboratory Analysis.