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Topics include

► Mass spectrometry in personalized medicine, breath analysis, tissue imaging, point-of-care diagnostics

► Biomarker discovery and validation

► FDA perspectives on clinical mass spectrometry

► CLSI C62-A standards for clinical mass spectrometry

► Monitoring cancer treatment and minimal residual disease by mass spectrometry

► Novel metabolite identification in congenital glycosylation disorders

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Quick Guide to Endocrinology

By William E. Winter, Lindsay A. L. Bazydlo, and Neil S. Harris
2013, 189 pages, spiral binding
ISBN 9781594251573
Product # 7298
Price only $28; AACC Member $23

The Quick Guide to Endocrinology addresses the clinical presentation, pathophysiology, and laboratory testing required for diagnosing common endocrinologic problems seen by the laboratorian and clinician on a regular basis. The Guide focuses on disturbances involving the anterior and posterior lobes of the pituitary gland, the thyroid gland, the adrenal glands, the parathyroid glands, the ovaries, and the testes. A future Quick Guide will address issues relevant to diabetes mellitus.

Understanding the basic biochemistry and physiology of endocrine systems is critically important when the laboratorian serves as a consultant to the clinician. This Guide can help assist graduate students, medical students, medical technologists, and laboratory supervisors, as well as MDs and PhDs, in comprehending basic endocrinology. Endocrine disorders are common and affect all aspects of medicine involving psychiatrists to neurosurgeons, and the information found in this Quick Guide will help prepare the laboratorian to act as a consultant to all of these practitioners.

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Quick Guide to Immunoassay Interference

By Pradip Datta, Adetoun A. Ejilemele, and John R. Petersen
2013, 75 pages, spiral binding
ISBN 9781594251566
Product # 8289
Price only $22; AACC Member $18

The Quick Guide to Immunoassay Interference is a valuable resource for medical laboratory scientists and directors, physicians, and other clinical support personnel to identify how laboratory immunoassay results may be affected by different types of interference. The Guide’s pocket size provides immediate access about what to watch for and how to correct such aberrant results, which are now ever dependent on clinical laboratory results, and maintain the integrity of patient care.

Starting from the basics of both immunoassays and assay interference, the Guide presents various sources of assay interference: cross-reactivity, prozone effects, heterophilic antibodies, endogenous serum components, system components, and analyte heterogeneity. The Guide also includes the various sources of preanalytical interference and is intended to be used as a reference for the diagnostics and pharmaceutical industries with regard to choosing an assay design to minimize interferences and to product support specialists so they can respond to reports of erroneous results from their customers.

The Guide can be used to assist physicians, pharmacists, pathologists, physician assistants, and medical fellows, residents, and students in understanding not only how to detect erroneous immunoassay results before making clinical decisions based on them but how such interference can be resolved and correct results may be obtained. The information contained in this Quick Guide also clarifies laboratory assay utilization to help predict, diagnose, and monitor therapy for clinical conditions and disease.
An Expert’s Quick Guide to Diabetes Mellitus includes the basics of what laboratorians need to know about the pathophysiology, etiology, epidemiology, diagnosis, and clinical management of diabetes. Topics also include measuring glucose, managing diabetic crises, and the laboratory evaluation of the person with diabetes. This Guide complements the Quick Guide to Endocrinology that addressed the clinical presentation, pathophysiology, and laboratory testing of common endocrinologic problems.

Caring for patients with diabetes affects all aspects of the medical field, from obstetrics to geriatrics. Thus, understanding the basic biochemistry and physiology of beta cells and insulin-responsive tissues is critically important for laboratorians. Because diabetes is one of the most common, chronic diseases in the world, the information contained in this Guide is relevant to the entire gamut of students and medical professionals, including graduate students, medical students, medical technologists, laboratorians, laboratory supervisors, clinicians, and researchers.
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The Guide outlines common hemorrhagic and thrombotic conditions together with their respective assays to emphasize accurate laboratory evaluation. Treatment discussions include the prophylactic and therapeutic use of nonbiologic, synthetic, and plasma-derived components to control bleeding, and antithrombotics that prevent or resolve arterial and venous occlusions.

The Guide expands on a series of “front-end” quick-access tables that summarize hemostasis assays and therapies with their reference intervals and therapeutic ranges. Platelet function and antiplatelet drug testing details have been added. The third edition reflects current practice standards as it describes the management of trauma-induced coagulopathy, thromboelastography, and laboratory measurement of the new direct oral anticoagulants.
The Quick Guide to Body Fluid Testing is intended to provide clinical laboratory directors, managers, and medical laboratory scientists with practical information to consider when testing body fluids. This concise pocket reference outlines the entire body fluid testing process, beginning with the preanalytical phase, which includes collection, labeling, transport, processing, and test requests/order management. Practical how-to guidance is provided to complete the analytical validation and includes figures that illustrate the preparation of specimens for each experiment and example calculations to manage and analyze the data for test performance verification in body fluid matrices. Postanalytical considerations are outlined, including best practices for reporting, and some common interpretive information about body fluid testing results is also provided.
Quick Guide to
TRANSFUSION MEDICINE
2nd Edition
Lance A Williams, III,
Marisa B. Marques, and
Margaret G. Fritsma

Spiral binding
Copyright: 2014
Pages: 169
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Product ID: 9261

This new edition of the Quick Guide to Transfusion Medicine gives you expert-level knowledge in the palm of your hand. Within the Guide, you will learn about transfusion medicine from beginning to end. It covers donor blood collection and testing, product composition, indications and administration of blood components, and recognition and treatment of transfusion reactions.

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Quick Guide to Molecular Diagnostics

By D. Hunter Best, Elaine Lyon, Kristina A. Roberts, and Alex Valsamakis
2013, 234 pages, spiral binding
ISBN 9781594251597
Product # 7297
Price only $24; AACC Member $20

The Quick Guide to Molecular Diagnostics is intended for physicians, residents/fellows, allied medical health professionals, nonmedical professionals, and students who wish to better understand the complex field of molecular diagnostics. The Guide is intended to be a quick, informative reference for individuals who order molecular tests in the fields of genetics, oncology, and infectious disease. For each of these fields, information about common molecular diagnostic tests is provided to assist in ordering and results interpretation. Molecular laboratory techniques are also discussed to help readers better understand their advantages and limitations. The pocket size of this text offers immediate access when and where tests are ordered. Our experience suggests that this Guide will be a useful reference for individuals in many different fields.

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Illicit drug chemists have been modifying structures of abused drugs to circumvent legal restrictions and evade detection. The novel compounds they create have been given the moniker "designer drugs."

The Quick Guide to Designer Drugs reviews the major classes of abused drugs where this phenomenon has been occurring. Included are discussions of designer cathinones (bath salts), synthetic cannabinoids (spice, K2), and designer phenethylamines and tryptamines, as well as analogs of benzodiazepines, ketamine, opioids, and phencyclidine. Specific sections are devoted to the designer cathinones and synthetic cannabinoids because of their popularity for use and abuse.

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