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AACC understands that your job demands results as quickly as possible and your time for career enrichment is limited. To fit into this strained schedule, AACC is holding three Quick Take webinars in August. All webinars take place at lunch time, 1:00–1:30 PM ET. Recordings of missed sessions will be provided. You get all three webinars for the price of one and 1.5 ACCENT credits.

Expert George Fritsma, author of AACC Press’ Quick Guide to Hematology Testing, understands the importance of valid coagulation testing. Fritsma will present three webinars discussing QC and QA issues that relate specifically to hemostasis.

Over the course of three webinars, to be held August 7, 14, and 21, learn:

- How to develop a Brill-Edwards curve to establish the partial thromboplastin time (PTT) unfractionated heparin therapeutic range
- How to determine PTT sensitivity to factor VIII and IX deficiency
- Specimen management for coagulation and platelet aggregometry
- How to employ local calibration for prothrombin time/international normalized ratio (PT/INR) monitoring of warfarin therapy

EXPERT: George Fritsma, MS, MLS
Associate Professor and consultant to the Department of Laboratory Medicine, University of Alabama at Birmingham, proprietor of The Fritsma Factor, your Interactive Hemostasis Resource, www.fritsmafactor.com, and co-editor of Hematology, Clinical Principles and Applications, Elsevier Press

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www.aacc.org/QuickTakes14
This fourth edition of the classic, best-selling textbook—ideal for the classroom and the reference shelf—includes a new section on “special topics” in forensic toxicology and updated chapters on drug testing, methods validation, alcohol, GHB, and metals. Since the publication of the first edition in 1999, Principles of Forensic Toxicology has been used extensively for teaching students taking a one-semester course in forensic toxicology. It has also proven to be an invaluable reference for laboratorians.

The first section provides an introduction to postmortem forensic toxicology, human performance forensic toxicology, forensic drug testing, and pharmacokinetics and pharmacodynamics. Additions to this section of the fourth edition include chapters on pain management and performance-enhanced drug testing.

The second section is devoted to analytical principles, including both theory and applications. Methodologies covered include specimen preparation, spectrophotometry, chromatography, immunoassay, mass spectrometry, and methods validation.

The third section covers commonly encountered analytes, including alcohol, benzodiazepines, GHB, miscellaneous central nervous system depressants, opioids, cocaine, cannabis, amphetamines/sympathomimetic amines, hallucinogens, anticonvulsants, antiarrhythmics, antidepressants, antihistamines, neuroleptics, nonnarcotic analgesics, carbon monoxide/cyanide, inhalants, and metals.

The newly added fourth section includes chapters on in vitro stability of drugs, postmortem redistribution, postmortem chemistry, pharmacogenomics, hair, and meconium.
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.
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Newly released guidelines are changing the lab’s role in the management of patients at risk of having a cardiac event. Researchers continue to discover new markers or novel ways to use existing assays to identify cardiovascular events earlier. Early diagnosis of both conditions allows clinicians to intervene and prevent further damage, leading to better patient outcomes.

AACC keeps laboratorians on the cusp of these new developments with three exclusive webinars featuring lectures, question-and-answer sessions, and research selections with experts from the Clinical Chemistry journal.

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**JULY 8** The Drive to Define “Normal”: The 99th Percentile Value of Cardiac Troponin  
Fred Apple, PhD, Medical Director of Clinical Laboratories, Clinical Chemistry, POC Testing and Clinical And Forensic Toxicology Laboratories at Hennepin County Medical Center, and Professor of Laboratory Medicine and Pathology, University of Minnesota School of Medicine, Minneapolis, MN

**SEPTEMBER 2** Stroke Biomarkers: Current Status, Future Promise  
Robert Christenson, PhD, Professor of Pathology and of Medical and Research Technology at the University of Maryland School of Medicine, and Director of the Clinical Chemistry, Toxicology, and Core Laboratories and Point of Care Services at the University of Maryland Medical Center, Baltimore, MD

**SEPTEMBER 9** CVD Risk Prediction: The Evolving Role of Laboratory Testing  
Paul Ridker, MD, MPH, Director, Center for Cardiovascular Disease Prevention at Brigham and Women’s Hospital and Eugene Braunwald Professor of Medicine at Harvard Medical School, Boston, MA

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Available Now from AACC Press!

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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Clinical Chemistry is pleased to announce a special upcoming theme issue on Molecular Diagnostics edited by Drs. Rossa W.K. Chiu, Frank R. Cockerill, Y.M. Dennis Lo, and Carl T. Wittwer titled “Molecular Diagnostics: A Revolution in Progress.” Clinical Chemistry, published by the American Association for Clinical Chemistry, is the most highly cited forum for peer-reviewed, original research in the fields of clinical chemistry and laboratory medicine.

The purpose of this issue is to highlight recent advances in molecular diagnostics that focus on either: (1) clinical applications that use molecular diagnostics to reach novel conclusions about disease and/or therapy; or (2) new technologies that improve high-volume needs, test turnaround time, comprehensive analysis, or ease of use.

Clinical Chemistry invites authors to submit original articles related to molecular diagnostics for potential publication in this special issue. In general, manuscripts must be quantitative rather than descriptive. Article selection will be based on the overall quality and potential impact of the manuscript.

Potential topics of interest include:

- New technologies that further advance the utility of molecular diagnostics
- Significant applications of molecular diagnostics that improve patient care
- Sample-to-answer platforms that can be used at the point of impact
- Informatics advances to analyze genomes, exomes, transcriptomes, epigenomes, or microbiomes
- Generic technologies that depend less on proprietary instruments and reagents
- Novel massively parallel sequencing approaches
- Methods and applications of cell-free nucleic acid analysis
- Guidelines for using specific molecular diagnostic techniques

Be a part of this exciting issue!

Submissions must be received through our online submission system at submit.clinchem.org. We welcome submissions after June 2014, but cannot guarantee the inclusion of late submissions for the Special Issue. Your cover letter should express your interest in submitting your paper for consideration for the Molecular Diagnostics theme issue. Journal guidelines for submission apply as described in the Information for Authors on the submission website.
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DIVISION DIRECTOR OF CLINICAL CHEMISTRY  
HENRY FORD HEALTH SYSTEM

The Department of Pathology at the Henry Ford Hospital (HFH) and Medical Group invites applications for a full-time clinical scientist as the director of the division of Clinical Chemistry Laboratories. The position entails responsibilities in directing the provision of clinical chemistry and immunochemistry testing throughout the Pathology product-line of the Henry Ford Health System as well as the teaching of residents, fellows and medical technology students.

The candidate must hold a PhD degree, and be certified by the American Board of Clinical Chemistry. The successful candidate will have a strong post-graduate background of at least three years in clinical and laboratory chemistry and immunochemistry in a university or large hospital/health system setting. In addition, the candidate should have a record progressively increasing managerial responsibility in the laboratory. The latter entails substantive activities in evaluation and implementation of testing and related quality assurance activities, in accordance with federal, state and local regulatory requirements.

HFH is an 811 bed, tertiary care facility in Detroit, MI, and the Pathology Department is the 12th largest hospital based laboratory in the country. The chemistry and other laboratories provide services to a level 1 trauma center, solid organ/stem cell transplant and comprehensive oncology programs, and 160 bed ICUs dedicated to surgical, medical, neurologic, neonatal and oncologic critical care. The HFH Pathology Department also serves as a core reference laboratory and as the source of expertise and oversight for the technical, regulatory and interpretive aspects of chemistry and other clinical laboratory testing in the Health System. This includes 3 other acute care hospitals, 1 psychiatric hospital and a network of 30 System “outpatient clinics in Southeast Michigan.

HFH serves as one of the area’s predominant health care teaching institutions. As part of this, HFH Pathology directly supports a training program of 16 pathology residents in anatomic and clinical pathology, as well as internships for Medical Technology students from the two major training programs in the State. Lastly, educational support in laboratory science is provided to other HFH medical specialty's residency and fellowship programs.

The Pathology product-line is an ISO 15189 accredited system of laboratories overseen by a pathologist vice-president and chair. Physicians and Clinical Scientists are members of the Henry Ford Medical Group, one of the nation’s largest and oldest group practices composed of over 1,200 physicians in 40 specialties. Medical school academic appointments are available with several primary affiliates including Wayne State University School of Medicine.

Interested applicants should submit curriculum vitae, a statement describing previous accomplishments and future direction and the names of three references to:

John L. Carey, MD  
Vice Chairman, Pathology and Laboratory Medicine  
Henry Ford Hospital and Medical Group  
2799 W. Grand Blvd.  
Detroit, MI  48202-2689  
(313) 916-1533  
jcarey1@hfhs.org
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 phenecyclidine. Specific sections are devoted to the designer cathinones and synthetic cannabinoids because of their popularity for use and abuse.

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Quick Guide to Clinical Chemistry, 2nd Edition

By Janelle M. Chiasera, Robert W. Hardy, and John A. Smith
2013, 150 pages, spiral binding
ISBN 9781594251443
Product # 7293
Price only $24; AACC Member $20

The Quick Guide to Clinical Chemistry, Second Edition, is a pocket-sized reference intended for physicians, nurses, physician assistants, nurse practitioners, medical technologists, pharmacists, and residents and students in those professions. This Guide focuses on the selection and use of chemistry laboratory tests for diagnosing and managing emergent conditions such as poisonings, acute abdominal pain, sepsis, and acute myocardial infarction.

The Guide’s small size allows it to be used in situations when quick decisions must be made regarding the ordering and interpretation of chemistry tests. The emergent clinical conditions and the associated laboratory tests are described together for quick reference.

Although this Guide reviews several clinical conditions, it is not intended to be a comprehensive guide to all clinical laboratory tests, nor is it intended to dictate what constitutes reasonable, appropriate, or best care in a given situation. Comprehensive references for such information currently exist. Instead, it should be seen as it is clearly named, a “Quick Guide” to clinical chemistry.

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Laboratory testing plays an integral part in the diagnosis and treatment of inherited metabolic diseases. With the introduction of expanded newborn screening for inherited metabolic diseases, increasing numbers of laboratory personnel and healthcare providers are involved in initial and follow-up confirmatory laboratory testing. Because inherited metabolic diseases are still rare and infrequently encountered, few guides to the selection and interpretation of laboratory tests are available, which can make choosing the appropriate diagnostic test challenging. Written by practicing clinical and laboratory experts, *Laboratory Diagnosis of Inherited Metabolic Diseases* is intended to provide information about the laboratory test selection, sample collection, processing and handling, and results interpretation in patients with suspected inherited metabolic diseases. Although detailed method description is beyond the scope of this book, interested laboratory professionals will find information to identify necessary resources to set up a particular method. Illustrative metabolic pathways and chromatograms for a number of inherited metabolic disorders are provided. The book also provides the basic information on clinical presentation, genetics and pathogenesis, treatment, and prognosis of selected inherited metabolic diseases.

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   *Uttam Garg, Laurie D. Smith, and Bryce A. Heese*

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Quick Guide to Hematology Testing, 2nd Edition

By Vishnu Reddy, Marisa B. Marques, and George A. Fritsma
2013, 180 pages, spiral binding
ISBN 9781594251559
Product # 8290
Price only $24; AACC Member $20

The Quick Guide to Hematology Testing is a speedy reference for anyone who orders, performs, or interprets hematology laboratory tests, including complete blood counts, bone marrow aspirate and biopsies, flow cytometry, cytogenticstics, and molecular diagnosis. Clear understanding of the significance of hematology laboratory results is critical, and awareness of the effect of confounding factors leads to clinically sound interpretations.

The Guide’s pocket size provides immediate access at the time and place that tests are ordered, performed, and interpreted. The text discusses benign and malignant conditions of the three cell lineages, including anemias, leukemias, and thrombocytopenia, emphasizing their diagnosis, treatment, and laboratory-based treatment monitoring. Disease descriptions and assays are adjacent so that all conditions may be correlated. The extensively updated second edition has new sections and expands on newly described phenotypes and genotypes of hematologic disorders and new methods, providing a current list of cell markers and mutations.

Although the Guide reviews clinical conditions, treatment, and laboratory assays, it should not be used alone to make final diagnoses. Many current references are provided for further reading. The authors’ local experience helps make the Guide a valuable resource for physicians, physician assistants, nurse practitioners, nurses, pharmacists, and medical laboratory scientists.

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Sponsored by the AACC CPOCT Division in cooperation with CSCC and EFLM, and under the auspices of IFCC.

The conference is supported by educational grants from Accriva Diagnostics, Alere, Instrumentation Laboratory, Medica Corporation, Nova Biomedical Corporation, Radiometer, Roche, and Siemens Healthcare Diagnostics.
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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