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*This chart represents common types of submissions to Clinical Chemistry.

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  A statement must be included in the text that Institutional Review Board approval was obtained and written informed consent obtained from study subjects.

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The Problem

Significant Hematocrit Error With Single-Channel Glucose Meters Leads to Excessive Insulin Infusion/Hypoglycemia in ICU Patients

“Here we demonstrate for the first time that anemia is the primary cause of glucometer error in hemodynamically stable adult ICU patients and that eliminating hematocrit error decreases the frequency of hypoglycemia…”1

“Glucometer error drives glucose to a lower range by reporting glucose concentrations that are higher.”1

“Uncorrected glucometer analysis underestimated the number of glucose values below target (80-110 mg/dL) in the above data set by 86% and overestimated those above target by 95%, undoubtedly leading to excessive insulin infusion.”

“Critical care providers should be aware of the potential for unrecognized hypoglycemia with the use of single-channel glucometers….In our study, hematocrit effect was the overriding cause for glucometer error, and the false results masked hypoglycemia.”

The Solution

New Four Channel Nova Glucose Meter Eliminates Glucose Errors Due to Hematocrit

“In this study, we found that four-channel glucometers, [Nova StatStrip®] which use proprietary software to correct hematocrit error before reporting a result, perform at least as well as our correction formula.”1

According to a recent published study by Karon2 et al at the Mayo Clinic, only the Nova 4-channel StatStrip glucometer continued to provide accurate glucose results as patient hematocrits varied from 20-65%.

For copies of these and other StatStrip® glucose studies contact Nova Biomedical and request StatStrip® Technology Publications and Presentations


Abstracts on all areas of pre-commercial technology for clinical diagnostics are welcome!

$500 Outstanding Poster Award

The Oak Ridge Conference is the American Association for Clinical Chemistry’s annual forum for emerging clinical diagnostic technologies. With presentations focusing on novel technologies and systems, the meeting brings together thought leaders from industry, academia, and clinical laboratories. The conference focuses exclusively on pre-commercial technologies, and session topics are updated each year to reflect diagnostic trends. Now in its 43rd year, the Oak Ridge Conference is firmly established as the premier forum for next generation clinical diagnostics developers.

Last year, the conference attracted more than 80 abstracts. You can be a part of this highly regarded conference by submitting an abstract for the poster session. The conference committee will select abstracts for brief oral presentations.

Sessions

- New Sequencing Technologies for Clinical Diagnostics
- Innovative Technologies for Infectious Disease Diagnostics
- New Technologies for Quantitative Pathway Mapping in Tissues
- Novel Nanotechnology Approaches for Diagnostics

For more information and to submit an abstract, go to: www.aacc.org/events/

Attendees rate this the best poster session for emerging diagnostic technologies.
Contemporary Issues in Thyroid Disease Management

Wednesday, December 1, 2010 ~ 2:00-3:30 pm Eastern U.S. Time

Approximately 20 million Americans now suffer from some form of thyroid disease, but experts estimate that about 13 million of them have not been diagnosed. With so many affected by a dysfunctional thyroid gland, thyroid function testing is becoming increasingly important to support both the diagnosis and management of thyroid disease. Unfortunately, controversy still exists concerning the upper limit of the TSH reference range and there is still confusion over when to use other thyroid immunoassays in the management of patients suspected of thyroid disease. Additionally, tandem mass spectrometry is rapidly emerging as a technology that could challenge labs’ reliance on traditional immunoassays for T4 and FT4.

During this interactive webinar, you will hear the most up-to-date information on a variety of contemporary issues related to testing for thyroid disease. Our expert speakers will help you understand:

- Where various organizations and interested parties now stand in the debate over the TSH upper reference limit
- How to recognize and manage interferences in thyroid immunoassays
- What’s new in testing for thyroid disease in pregnant women
- When to use TT3, FT3, total T4, free T4, and thyroid autoantibody assays
- Why one lab moved all of its FT4 testing to a tandem mass spec platform, and how it justifies the cost of using this technology

The Experts:

Laurence M. Demers, PhD, (moderator), Distinguished Professor of Pathology and Medicine, The Milton S. Hershey Medical Center at Penn State University, Hershey, PA

Steven J. Soldin, PhD, Professor in the Departments of Endocrinology and Metabolism and Pharmacology, Georgetown University, Washington, DC, and Clinical Director Endocrinology Laboratories NMS Laboratories, Willow Grove, PA

Carole A. Spencer, PhD, Professor of Medicine & Technical Director, Endocrine Services Laboratory, University of Southern California, Los Angeles, CA

Target Audience: This program is designed for laboratorians, thyroid specialists, pathologists, laboratory directors, clinicians, endocrinologists, diagnostic manufacturers and anyone involved in the diagnosis or management of patients with thyroid disease.

This program is approved by AACC for 1.5 Category 1 ACCENT credit hours.

Ask your questions online or via the phone during this must-attend, interactive webinar!

TO REGISTER
Go to www.aacc.org and click on the “Events” tab. Then, go to the conference and events calendar and select this webinar. Click “Register” to register online or print a registration form.
Applying Evidence-Based Laboratory Medicine: A Step-by-Step Guide

Christopher P. Price, Joanne Lozar Glenn, and Robert H. Christenson

Published 2009,
270 pages, softcover,
ISBN 9781594250897,
Product #5175

Price only $70; AACC Member $58

This workbook offers a step-by-step guide to applying the principles of evidence-based laboratory medicine (EBLM) in routine practice.

The term “evidence-based” is increasingly becoming part of the language in the practice of clinical medicine, and in laboratory medicine. In laboratory medicine, it is also becoming clear that the “evidence” differs somewhat from that on which the specialty was founded. The foundation of laboratory medicine is an understanding of the molecular mechanisms that describe the pathology of disease, but in applying this knowledge to patient care, the emphasis moves from understanding disease mechanisms to improving health outcomes.

By applying EBLM to daily practice, laboratory professionals can
• Ensure appropriate use of tests at the requesting, decision-making, and application phases.
• Make the business case for implementing new diagnostic tools and strategies that meet clinical needs.
• Become full members of the clinical team and take an important role in implementing change.

The key is understanding the question being asked—and then applying the EBLM A5 Cycle: Ask, Acquire, Appraise, Apply, Assess.

This workbook walks readers through this process by providing a wide range of case studies that illustrate applications of EBLM in routine laboratory practice. Readers are then encouraged to record their own examples, consider how they might be addressed using the principles of EBLM, formulate research questions, and then follow those questions to their evidence-based solutions.

Throughout the text, sidebars and exercises offer additional helpful information and highlight key concepts. Whether used alone or with colleagues, this workbook provides the knowledge and practice that will give readers confidence that they are indeed learning how to apply the best available scientific evidence to diagnostic challenges, and in the process, playing a central role in patient care.

www.aacc.org
Acute kidney injury (AKI) is a common and serious condition that affects 20 million people in the U.S. over the age of 20, according to the CDC. Damage due to AKI often leads to other health problems including cardiovascular disease, anemia and bone disease. People with early AKI tend not to feel any symptoms. Therefore, the diagnosis depends on functional markers such as serum creatinine. Unfortunately, creatinine is a delayed and unreliable indicator of AKI.

New markers are now emerging that identify early stress response of the kidneys to acute injury. The most promising stand alone marker is neutrophil gelatinase-associated lipocalin (NGAL). This important development will mean an earlier and more accurate diagnosis of AKI so that it can be treated through medication and lifestyle changes to slow down disease progression and to prevent or delay the onset of kidney failure.

This program will review the latest developments in AKI diagnosis and the importance of monitoring co-morbid disease states such as cardiac disease. You will understand which biomarkers can positively affect clinical outcomes and improve patient care.

Attend this webinar and know:
- Why a marker of AKI that provides better information is needed
- The importance of looking at co-morbid disease states that occur with kidney injury (cardiac dysfunction, etc.)
- What the early markers of AKI are
- How best to use NGAL in the diagnosis of AKI
- How NGAL can tease out confounding variables in AKI

The Experts:
Robert Christenson, PhD, DABCC, FACB, Professor of Pathology, Medical & Research Technology, University of Maryland

Prasad Devarajan, MD, Professor of Pediatrics and Developmental Biology, University of Cincinnati College of Medicine

Target Audience: Laboratory administrators, directors, and managers; pathologists; critical care physicians, and anyone involved in the diagnosis and management of AKI.

This program is approved by AACC for 1.5 Category 1 ACCENT credit hours.

Invite your clinician colleagues to this interactive event! Register today!

Society of Critical Care Medicine Co sponsored by the Society of Critical Care Medicine.

TO REGISTER
Go to www.aacc.org and under “Upcoming Events,” select this webinar.
Then, click “Register” to register online or print a registration form.

Edited by Christopher P. Price, Andrew St John, and Larry J. Kricka
2010, 593 pages, softcover
ISBN 987-1-59425-103-0  Product # 6117
Price only $124;  AACC Member $99

Point-of-care testing (POCT) is now considered a key enabler of reform and quality improvement in healthcare. Written by an international list of authors, this book brings together:

- A distillation of the key challenges in healthcare today, including the move to patient-centered care
- Analytical principles of POCT technology and the new developments in this field
- How to manage an effective POCT service in a changing environment
- Applications of POCT in a range of clinical settings and the improved outcomes that results from POCT
- A discussion of the challenges of translating innovative technology in the complex environment of healthcare, and the leading role that POCT will play in transforming healthcare delivery.

The technological developments described in this book demonstrate how all in vitro tests can potentially be delivered at the point of care in the future. The challenge for developer, manufacturer, purchaser, provider and user is to determine which tests will offer the greatest benefit and address the challenges of healthcare delivery. As a disruptive technology, experience indicates that the biggest challenge for all stakeholders will be transforming the practice of healthcare in order to generate these benefits. This is a ‘must read’ book for all developers and manufacturers of POCT technology, those who develop healthcare policy, those who purchase or commission healthcare services, and those who will use this innovative technology.
Quick Guide to Venipuncture

Alexis Bennett and
George A. Fritsma

2010, 54 pages, spiral binding
ISBN 987-1-59425-105-4
Product # 6118
Price only $20; AACC Member $16

The Quick Guide to Venipuncture assists phlebotomists, patient care technicians, nurses, physicians, medical laboratory scientists, respiratory therapists, students, residents, fellows and all health care practitioners with blood specimen collection responsibilities. The Guide describes standard venipuncture equipment and addresses patient identification and management, order of specimen tube draw, and good venipuncture techniques; provides criteria that ensure specimen suitability including complete draws, specimen mixing, hemolysis avoidance, and proper transport and storage; emphasizes safety for the patient and for the phlebotomist, including prevention of needlestick injury and minimizing risk of infection; and describes proper blood collection by vascular access device, and provides detailed capillary puncture and arterial puncture instructions.

The authors are faculty of the University of Alabama at Birmingham (UAB) Department of Pathology Division of Laboratory Medicine. The Guide arose from their experiences in teaching medical laboratory science students, residents, fellows, nurses, and physicians at the UAB Hospital. The Quick Guide to Venipuncture joins a series that includes Quick Guide to Coagulation Testing, Quick Guide to Hematology Testing, Quick Guide to Transfusion Medicine, and Quick Guide to Clinical Chemistry.
Critical Issues in Alcohol and Drugs of Abuse Testing

Edited by Amitava Dasgupta

2009, 319 pages, softcover
ISBN 9781594250934
Product # 5629

Price only $90; AACC Member $75

Critical Issues in Alcohol and Drugs of Abuse Testing addresses problems encountered in workplace alcohol and drug testing and how to resolve such problems. People try to pass drug tests by using a variety of urinary adulterants, and this book reviews, in detail, how to catch these cheaters. Ingestion of certain prescription medications or poppy seed-containing food, however, may also cause positive results in drug testing. Two chapters are devoted to reviewing true analytical positive results in drugs of abuse testing. In addition, drug testing using alternative specimens such as hair, saliva, and sweat is also addressed. Additional chapters review the following:

- Pharmacogenomics of alcohol abuse
- Pharmacogenomics of drugs of abuse
- Abuse of magic mushrooms, peyote cactus, khat, and volatiles
- Sports drug testing

Critical Issues in Alcohol and Drugs of Abuse Testing will be helpful to toxicologists, medical review officers, pathologists, and medical technologists as a quick handbook and reference book to address problems encountered in alcohol and drugs of abuse testing.
As international laboratory professionals, each of us shares a single concern—in a field as fast-changing and information-fueled as ours, how does one stay at the cutting edge? Only together can we advance the knowledge and practice of laboratory medicine.

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Biochemical and Molecular Basis of Pediatric Disease, 4th Edition

Edited by Dennis J. Dietzen, Michael J. Bennett, and Edward C. C. Wong

2010, 660 pages, softcover
ISBN 978-1-59425-100-9, Product # 6114
Price only $124; AACC Member $99

For many years Biochemical Basis of Pediatric Disease, 3rd Edition, edited by Drs. Soldin, Rifai, and Hicks, has served as the critical standard for pediatric clinical laboratory medicine. This new edition, retitled Biochemical and Molecular Basis of Pediatric Disease, 4th Edition, continues the previous edition’s strong focus on understanding the pathogenesis of pediatric disease, emphasizing not only the important role of the clinical laboratory in defining parameters that change with the disease process, but also the molecular basis of many pediatric diseases.

Biochemical and Molecular Basis of Pediatric Disease, 4th Edition, includes new chapters in the areas of neonatology, iron metabolism, coagulation, endocrinology, and allergy. All other chapters have been extensively updated, covering nearly all aspects of pediatric disease and the many advances that have been made in recent years. Fifty-two pediatric academic faculty, all nationally known for their pediatric clinical and laboratory expertise, have contributed to this new edition, designed not only for trainees in pediatrics and laboratory medicine, but also for well-established practitioners who wish to keep up with advances in the field and those who would like to better understand the unique aspects of pediatric disease and the clinical laboratory.

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**Handbook of Workplace Drug Testing, 2nd Edition**

*Edited by Jeri Ropero-Miller and Bruce Goldberger*

Published 2008, 506 pages, softcover, ISBN 9781594250903, Product #5176
Price only $89; AACC Member $71

The Second Edition of *Handbook of Workplace Drug Testing* builds on the knowledge included in the first edition and offers considerable updates and enhancements. It remains a valuable resource for understanding the complexity of the science, law, and interpretation of workplace drug testing. The information that has been compiled in the second edition was obtained through extensive laboratory study and literature surveys. As leaders in their fields, the authors provide a historical perspective of workplace drug testing and an understanding of analytical procedures and theory, drug class overviews, adulteration and specimen validity testing, alternative matrices, quality assurance and quality control, result interpretation for medical review officers, and laboratory accreditation.

This book is a “must have” for all workplace drug testing laboratories and practitioners in forensic toxicology, clinical toxicology, and clinical chemistry. A complete subject index is included for easy referencing of topics.

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www.aacc.org
Quick Guide to Coagulation Testing, 2nd Ed.

Marisa B. Marques and George A. Fritsma

2009, ~105 pages, spiral binding
ISBN 9781594250958
Product # 5644

Price only $20; AACC Member $16

The Quick Guide to Coagulation Testing, Second Edition, is a quick-access, readily available pocket reference for health practitioners who order, collect, perform, or interpret hemostasis laboratory test results or administer hemostasis-related therapy.

The Guide outlines the most common hemorrhagic and thrombotic conditions together with their respective assays to emphasize correct laboratory evaluation. Treatment discussions include the prophylactic and therapeutic application of non-biological, synthetic, and human blood-derived components to control bleeding, and the use of antithrombotics designed to prevent or resolve arterial and venous occlusions. The emphasis is on proper dosing and valid laboratory monitoring of hemostatic therapy.

New to the second edition is a series of introductory-reference tables summarizing hemostasis assays for various conditions with their reference intervals, and when applicable, therapeutic ranges. The discussion of platelet and coagulation physiology is expanded, platelet function testing is detailed, and new antithrombotic therapies are described with therapeutic monitoring recommendations. All portions of the second edition have been enhanced to reflect current international practice standards.

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