

EDITORIAL


- Can EHR Data Close the Gap with Reference Interval Studies?343**
Angela R. Davis and Mark D. Kellogg

ARTICLES

MOLECULAR DIAGNOSTICS AND GENETICS

- Early and Accurate Sex Determination by qPCR of Y Chromosome Repetitive Sequence (YRS) In Cell-Free Fetal DNA from Maternal Plasma346**
Ditte Jacobsen, Grethe Risum Krog, and Frederik Banch Clausen

EVIDENCE-BASED LABORATORY MEDICINE AND TEST UTILIZATION

-  **Elimination of 72-Hour Quantitative Fecal Fat Testing by Restriction, Laboratory Consultation, and Evaluation of Specimen Weight and Fat Globules357**
Michael Korostensky, Steven R. Martin, Mark Swain, Maitreyi Raman, Christopher T. Naugler, S.M. Hossein Sadrzadeh, and Lawrence de Koning
- Comparing Ethnicity-Specific Reference Intervals for Clinical Laboratory Tests from EHR Data366**
Nadav Rappoport, Hyojung Paik, Boris Oskotsky, Ruth Tor, Elad Ziv, Noah Zaitlen, and Atul J. Butte

CANCER DIAGNOSTICS

- Incidence of Myelodysplastic Syndromes in a Major Canadian Metropolitan Area378**
Jonathan Slack, Leonard Nguyen, Christopher Naugler, and Fariborz Rashid-Kolvear

DRUG MONITORING AND TOXICOLOGY

- Selecting a Structural Analog as an Internal Standard for the Quantification of 6-Methylmercaptopurine by LC-MS/MS384**
Kathryn A. Smith, Stephen D. Merrigan, and Kamisha L. Johnson-Davis
- Quantitation of Benzodiazepines and Metabolites in Urine by Liquid Chromatography–Tandem Mass Spectrometry397**
Yu Zi Zheng, Dustin R. Bunch, Katherine Lembright, and Sihe Wang

ENDOCRINOLOGY AND METABOLISM

- Rapid Underivatized Method for Quantitative Methylmalonic Acid by Liquid Chromatography–Tandem Mass Spectrometry408**
Justin Mak, Beverly T. Wong, Tony Kwan, Anthony Le, and Tina M. Cowan

POINT-OF-CARE TESTING

- Intervention to Reduce Unnecessary Glucose Tolerance Testing in Pregnant Women418**
Joshua D. Buse, Lois E. Donovan, Christopher T. Naugler, S.M. Hossein Sadrzadeh, and Lawrence de Koning

PEDIATRIC LABORATORY MEDICINE

- Molecular Testing for Detection of Groups A, C, and G β -Hemolytic Streptococci in Pharyngeal Samples from Children**429
Tam T. Van, Javier Mestas, and Jennifer Dien Bard


CARDIAC MARKERS

- Direct Immunoassay for Free Pregnancy-Associated Plasma Protein A (PAPP-A)**438
Emilia Tuunainen, Juha Lund, Joanna Danielsson, Pirjo Pietilä, Veikko Wahlroos, Keira Pudge, Isto Leinonen, Pekka Porela, Tuomo Ilva, Mauri Lepäntalo, Kari Pulkki, Liisa-Maria Voipio-Pulkki, Kim Pettersson, and Saara Wittfooth

FOCUSED REPORTS

- Proteolytic Digestion of Serum Cardiac Troponin I as Marker of Ischemic Severity**450
Somaya Zahran, Vivian P. Figueiredo, Michelle M. Graham, Richard Schulz, and Peter M. Hwang
- Impact of Point-of-Care Diagnostics on Clinical Decision-making in Low- and Middle-Income Countries**456
Andrea DeLuca, Joshua Betz, Robert Bollinger, Stuart C. Ray, and Yukari C. Manabe


REVIEWS

-  **The (Sun)Light and Dark of 25-Hydroxyvitamin D Testing**460
Deborah French
- Clinical Pharmacogenetics for Precision Medicine: Successes and Setbacks**474
Allison B. Chambliss and Mark A. Marzinke


MINI-REVIEW

- Improving the Delivery of Healthcare through Clinical Diagnostic Insights: A Valuation of Laboratory Medicine through “Clinical Lab 2.0”**487
Kathleen Swanson, Monique R. Dodd, Richard VanNess, and Michael Crossey

SPECIAL REPORT

-  **Creation of a Professional Development Program for Women in a Major US Medical School Pathology Department**498
Ann M. Gronowski and Carey-Ann D. Burnham

CASE REPORTS

-  **Case of Sudden Acute Coma Followed by Spontaneous Recovery**507
Oscar F. Lopez Nunez, Jacqueline A. Rymer, and Kenichi Tamama
- An HbA1c of 25%—Is It Real?**511
Amanda B. Moyer, Xin Yi, and Tara N. Miller

LETTER TO THE EDITOR

Method Comparison Between ELISAs Suggests Therapeutic Ranges for Infliximab Should Be Assay-Specific515
Mandy H. Pery and Timothy J. McDonald

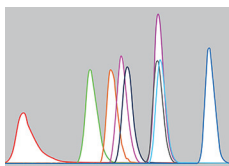
LABORATORY REFLECTIONS

TECHNICAL TIPS

Factual or Factitious Hypocalcemia?518
Jieli Li and Qing H. Meng

Establishing Normal Reference Ranges in Pediatric Patients521
Amy L. Pyle-Eilola and Brenda B. Suh-Lailam

COVER IMAGE



This November edition of *The Journal of Applied Laboratory Medicine* features four articles on mass spectrometry. The cover highlights a chromatogram that might be seen with GC/MS or HPLC tandem mass spectrometry analysis.



JALM TALK podcast coming soon to <http://www.jalm.org>.

SOCIAL MEDIA



Follow us on Twitter
http://twitter.com/JALM_AACC



Like us on Facebook
<http://www.facebook.com/JournalAppliedLaboratoryMedicine>

AACC

AACC Officers

Dennis Dietzen, *President*
Carmen L. Wiley, *President-Elect*
Michael J. Bennett, *Past President*
Anthony A. Killeen, *Secretary*
Corinne R. Fantz, *Treasurer*

AACC Board of Directors

Lorin Bachmann
Linnea M. Baudhuin
William A. Clarke
Shannon Haymond
Stephen R. Master
David B. Sacks
William E. Winter
Steven J. Zibrat

AACC
ACADEMY