

Curriculum Vitae and Bibliography

Bradley S Karon, MD, PhD

Personal Information

Place of Birth: Duluth, MN
Citizenship: United States of America
Work Address: Mayo Clinic Rochester
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Rochester, MN 55905-0001
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Present Academic Rank and Position

Consultant - Division of Clinical Core Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota 09/2007 - Present
Associate Dean for Academic Affairs - Mayo School of Health Sciences, Mayo Clinic College of Medicine and Science, Department of Education Administration, Rochester, Minnesota 03/2014 - Present
Professor of Laboratory Medicine And Pathology - Mayo Clinic College of Medicine and Science 06/2017 - Present

Education

University of Minnesota - BA, Summa cum laude, Chemistry major, Biology minor 1985 - 1989
University of Minnesota Medical School - MD/PhD 1989 - 1996
Barnes-Jewish Hospital, Washington University School of Medicine - Resident, Clinical Pathology 1996 - 1999

Certification

Board Certifications

American Board of Pathology

Clinical Pathology 1999 - Present

Licensure

Nevada 9071 (Medical) 07/1999 - 2005
Minnesota 47220 (Medical) 11/2004 - Present

Honors and Awards

B.A., Summa cum laude, Phi Beta Kappa - University of Minnesota, Twin Cities 01/1989
Medical Scientist Training Program Predoctoral Fellowship - National Institutes of Health 01/1989 - 01/1991
Chemical Basis of Cell and Molecular Biology Predoctoral Fellowship - National Institutes of Health 01/1992 - 01/1994
Medical Scientist Training Program Predoctoral Fellowship - National Institutes of Health 01/1994 - 01/1996
J. Jacob Kaplan Research Award - University of Minnesota Medical School 01/1996

NACB Distinguished Abstract Award - National Academy of Clinical Biochemistry	07/2006
AACC Outstanding Speaker Award - American Association for Clinical Chemistry	01/2009
AACC Outstanding Speaker Award - American Association for Clinical Chemistry	01/2010
AACC Pediatric and Maternal-Fetal Division Abstract Award for Research Excellence - American Association for Clinical Chemistry	07/2012
Best abstract award, 24th International AACC Symposium on Point of Care Testing - American Association for Clinical Chemistry	10/2012
Outstanding Physician/Scientist Educator - Mayo Clinic School of Health-Related Sciences, Mayo Clinic College of Medicine	2013
AACC Outstanding Speaker Award - American Association for Clinical Chemistry	06/2013
AACC Outstanding Speaker Award - American Association for Clinical Chemistry	05/2014
2016 AACC outstanding speaker award - American Association for Clinical Chemistry	09/2017
Department of Laboratory Medicine and Pathology Innovation and Leadership in Education Award - Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota	06/2018 - Present

Professional and Community Memberships, Societies, and Services

Professional Memberships and Services

AACC Academy	
Awards Committee, member	01/2018 - Present
Nominating Committee, member	01/2018 - Present
Academy of Clinical Laboratory Physicians and Scientists	
Member	
American Association for Clinical Chemistry	
Arnold O. Beckman Conference	
Conference Organizer	04/2011
Critical and Point of Care Testing Division	
Chair-Elect	01/2009 - 12/2009
Chair	01/2010 - 12/2010
Past Chair	01/2011 - 12/2011
Division Management Group	
Member	03/2014 - 12/2015
International Point of Care Meeting	

Abstract Reviewer	09/2006
Meeting Organizer	09/2008
Abstract Reviewer	09/2008
Meeting Chair	09/2010
Meeting Organizer	10/2012
Meeting Organizer	09/2018
Pediatric and Maternal Fetal Division	
Member at Large	01/2014 - 12/2017
Strategies Online Editorial Advisory Board	
Member	01/2006 - 12/2010
Chair	01/2009 - 12/2010
American Association of Blood Banks	
Annual Meeting Education Program Subunit	
Member	01/2004 - 12/2007
American Board of Clinical Pathology	
Diplomate	
American Pathology Foundation	
Member	
American Society for Clinical Pathology	
Fellow	
Centers for Disease Control and Prevention	
Advisory Panel Member	10/2016 - Present
Clinical and Laboratory Standards Institute	
Subcommittee on Method Comparison of Glucose Methodologies	
Member	11/2006 - 12/2010
Subcommittee on Point-of-care Blood Glucose Testing in Acute and Chronic Care Facilities	
Member	11/2008 - Present
College of American Pathologists	
Fellow	
LAP State Commissioner (Nevada)	01/2002 - 08/2004
LAP State Commissioner (Minnesota)	10/2005 - Present
North Central Deputy Regional Commissioner	11/2013 - Present
College of American Pathologists, Chemistry resource committee	
Member	01/2008 - 12/2010
College of American Pathologists	
Commission on Laboratory Accreditation	
Member	06/2012 - 12/2017
Vice Chair	01/2015 - Present
Continuous Compliance Committee	
Member	08/2006 - Present
Vice Chair	01/2012 - 06/2012
Chair	06/2012 - 12/2016
Point of Care Testing Committee	
Member	01/2007 - 12/2010
Food and Drug Administration	
Advisory Panel Member	04/2014 - Present
National Academy of Clinical Biochemistry	
Fellow	

Society for the Advancement of Blood Management
Founding Member

Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities

Mayo Clinic

Department of Education Administration

Mayo Clinic College of Medicine

Library Advisory Committee

Member

01/2015 - Present

Mayo Clinic School of Health-Related Sciences

Associate Dean for Academic Affairs

03/2014 - Present

Education Committee

Member	01/2011 - Present
Mayo Clinic in Rochester	
Department of Laboratory Medicine and Pathology	
Associate Residency Director	11/2005 - 07/2013
Vice Chair for Education	03/2007 - 03/2014
Residency Program Director	07/2013 - Present
Education Committee	
Member	04/2005 - Present
Chair	03/2007 - 03/2014
Information Technology Steering Committee	
Member	01/2006 - 2009
Mayo Clinic Rochester Committees	
Allied Health Professional Academic and Promotions Committee	
Member	01/2012 - Present
Orders and Scheduling Committee	
Member	09/2006 - Present
Priorities of Laboratory Testing Committee	
Member	01/2007 - 12/2014
Vice Chair	01/2009 - 12/2014

Presentations Extramural

National or International

Invited

Lean/Six Sigma: Complementary Methods to Improve Laboratory Operations AACC Audioconference Rochester, Minnesota	06/2005
Troponin and BNP: The more we learn, the more questions we have MML Disease Management Strategies Satellite Broadcast	12/2008
Billing, charging and reimbursement: Unrelated, irrelevant or obscure? Society for Young Clinical Laboratorians Workshop Chicago, Illinois	07/2009
Laboratory testing for diabetes: An update American Society for Clinical Laboratory Science Annual Meeting Chicago, Illinois	07/2009
Did You Know? Phlebotomy case studies revealed Mayo Medical Labs Audioconference Rochester, Minnesota	10/2009
Update in Diabetes Testing and Glycemic Control American Society for Clinical Pathology Annual Meeting Chicago, Illinois	10/2009
The New Role of STAT Creatinine Testing Radiometer University Webinar Rochester, Minnesota	04/2010
Patient Safety and Tight Glycemic Control BioConference Live Online Clinical Diagnostics Conference	10/2010
The role of the laboratory in early sepsis detection AACC Webinar: Sepsis and the clinical lab	01/2011
Creatinine Results at the Point of Care	02/2011

Radiometer University Webinar Rochester, Minnesota	
Glucose meter accuracy and glycemic control: How good is good enough? AACC Webinar: High-value tests for high-impact diseases series	05/2012
The impact of whole blood creatinine testing accuracy on screening for medical imaging Radiometer University Webinar Rochester, Minnesota	08/2012
Whole blood creatinine: Reliable or ruse? Canadian Society for Clinical Chemistry Webinar Rochester, Minnesota	04/2013
Point of care platelet function testing: Ready for prime time? AACC Online Conference: The role of POCT in patient care	10/2013
Achieving concordance between POCT and central laboratory results AACC/Seattle Children's Hospital Lab Management Series Rochester, Minnesota	11/2013
Viscoelastic coagulation testing Food and Drug Administration, Office of In Vitro Diagnostics and Radiologic Health, Division of Immunology and Hematology Devices Silver Springs, Maryland	12/2013
Preventing Critical Proficiency Testing Failures College of American Pathologists Annual Meeting Chicago, Illinois	09/2014
Best practices in alternative assessment of performance College of American Pathologists Compliance Webinar Rochester, Minnesota	11/2014
Impact of glucose meter error on efficacy of glycemic control after cardiovascular surgery IFCC Point of Care Testing International Symposium Cancun, Mexico	11/2015
Point of Care Testing Then and Now--A Conversation AACC International Point of Care Symposium Copenhagen, Denmark	09/2016
Point of Care Lactate for Sepsis Detection: Reconsidering accuracy, precision and concordance criteria AACC International Point of Care Symposium Copenhagen, Denmark	09/2016
Glucose meter use in critically ill patients: Why improved meter accuracy may lead to better ICU outcomes Nova Biomedical Webinar Rochester, Minnesota	05/2018
Root cause analysis for problem solving Ortho Lab Leadership Scientific Summit Seoul, South Korea	05/2018
Understanding and avoiding common quality defects Ortho Lab Leadership Scientific Summit Seoul, South Korea	05/2018
The relationship between glucose meter accuracy and glycemic control efficacy South Carolina Point of Care Network webinar Rochester, MN	07/2018

Oral

Molecular Mechanism of Ca-ATPase Regulation by Cyclopiazonic Acid and Halothane Biophysical Society Meeting New Orleans, Louisiana	03/1994
Monitoring glucose concentration in patients on intensive intravenous insulin therapy American Association for Clinical Chemistry Meeting San Diego, California	07/2007
Practical Applications for Point of Care Testing Programs: Glucose Control and Patient Safety American Association for Clinical Chemistry Meeting San Diego, California	07/2007
Patient safety and tight glycemic control: How close is close enough? American Association for Clinical Chemistry Meeting Washington, District of Columbia	07/2008
Tips for inspecting a point of care program American Association for Clinical Chemistry Meeting Washington, District of Columbia	07/2008
Critical and point of care testing for special populations AACC International Point of Care Meeting Barcelona, Spain	09/2008
Effect of different glucose meter error tolerances on dosing errors during intravenous insulin administration AACC International Point of Care Meeting Barcelona, Spain	09/2008
Establishing a formal leadership and management curriculum: One institution's tale American Association for Clinical Chemistry Meeting Chicago, Illinois	07/2009
Impact of measurement technology on risk assessment for neonatal hyperbilirubinemia American Association for Clinical Chemistry Meeting Chicago, Illinois	07/2009
Patient safety and tight glycemic control: Determining accuracy requirements for glucose meters American Association for Clinical Chemistry Meeting Chicago, Illinois	07/2009
Determining Accuracy Requirements for Glucose Meters American Association for Clinical Chemistry Meeting Anaheim, California	07/2010
Laboratory Tests for Aspirin and Clopidogrel Response American Association for Clinical Chemistry Meeting Anaheim, California	07/2010
Leadership and Conflict Resolution: Styles, strengths and weaknesses American Association for Clinical Chemistry Meeting Anaheim, California	07/2010
Neonatal Bilirubin: Impact of clinical practice guidelines and different measurement technologies American Association for Clinical Chemistry Meeting Anaheim, California	07/2010

Glycemic Control Issues Arnold O. Beckman Conference: Glycemic control in the hospital San Diego, California	04/2011
Investigating and responding to critical proficiency testing failures Clinical Laboratory Management Association (CLMA) national meeting Atlanta, Georgia	04/2012
Impact of glycemic target on accuracy needs for glucose monitors in the intensive care unit American Association for Clinical Chemistry Meeting Los Angeles, California	07/2012
Regulatory and accreditation requirements for waived testing and provider-performed microscopy American Society for Microbiology General Meeting Denver, Colorado	05/2013
What can simulation models tell us about the impact of glucose meter accuracy on insulin dosing decisions in the hospital? Diabetes Technology Society meeting Washington, District of Columbia	05/2013
Comparison of viscoelastic to routine coagulation tests American Association for Clinical Chemistry Meeting Houston, Texas	07/2013
Motivation and conflict resolution: Stories from the trenches American Association for Clinical Chemistry Meeting Houston, Texas	07/2013
Regulating and accrediting agency requirements for proficiency testing American Association for Clinical Chemistry Meeting Houston, Texas	07/2013
Impact of glucose meter accuracy on the efficacy of glycemic control in critically ill patients after cardiovascular surgery AACC International Point of Care Symposium San Diego, California	09/2014
A health system approach to glucose meter use in the hospital American Association for Clinical Chemistry Meeting Atlanta, Georgia	07/2015
Preventing critical proficiency testing failures American Association for Clinical Chemistry Meeting Atlanta, Georgia	07/2015
Best Practices in Laboratory Compliance College of American Pathologists Annual Meeting Nashville	10/2015
Preventing critical proficiency testing failures American Association for Clinical Chemistry Meeting Philadelphia, Pennsylvania	07/31/2016
Trends in allied health education American Association for Clinical Chemistry Meeting Philadelphia, Pennsylvania	08/03/2016
Regional	
Invited	
Who Pays for Clinical Pathology? Invited lecture, Washington University	03/2002

St. Louis, Missouri	
CAP Inspector Training Seminar Regional Inspector Training Seminar Las Vegas, Nevada	10/2004
Evaluation of Three Rapid HIV Tests North Country Point of Care Network Rochester, Minnesota	10/2005
Hot Topics in Phlebotomy Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	03/2006
CAP Inspector and Team Leader Training Seminars CAP Team Leader Workshop and Inspector Training Seminar Minneapolis, Minnesota	04/2006
CAP Inspector Training Seminar Regional Inspector Training Seminar Madison, Wisconsin	03/2007
Trends in Occupational Exposure Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	03/2007
QC Theory and Practice Mayo Medical Labs Visiting Faculty Lecture Olmsted Medical Center Rochester, Minnesota	12/2007
Phlebotomy Top Gun Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	03/2008
Stump the Chump: Phlebotomy Mayo Medical Labs Visiting Faculty Lecture Mankato, Minnesota	04/2008
Factors influencing the relationship between transcutaneous and serum bilirubin ASCLS-MN Central Area Fall meeting St. Cloud, Minnesota	10/2008
Phlebotomy Top Gun Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	03/2009
Adventures in Specimen Collection: An interactive journey Clinical Laboratory Collaborative Rochester, Minnesota	05/2009
Quality Control: From theory to practical application Mayo Medical Labs Visiting Faculty Lecture Winneshiek Medical Center Decorah, Iowa	10/2009
Risk Assessment for Neonatal Hyperbilirubinemia Clinical Chemistry Grand Rounds U.T. Southwestern Medical Center Dallas, Texas	12/2009
Monitoring Glucose Concentration in Patients on Intensive Intravenous Insulin Therapy Central Michigan Association of Medical Technologists Mount Pleasant, Michigan	03/2010
Phlebotomy Top Gun Mayo Medical Labs Phlebotomy Conference	03/2010

Rochester, Minnesota	
Transcutaneous Bilirubin: Pearls, Pitfalls and Possibilities TriMark Point of Care Testing 3: Breakthroughs in Patient Care and Data Management San Diego, California	05/2010
Glucose Meter Use in the ICU: How close is close enough? Teleconference Network of Texas Webinar	06/2010
Phlebotomy Practice in the ICU: Past, present and future Critical Care Grand Rounds Rochester, Minnesota	01/2011
Transcutaneous Bilirubin: How does it compare to the lab? Southwest Florida Point of Care Network Rochester, Minnesota	02/2011
Hot Topics in Phlebotomy Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	10/2011
Glucose meters in various settings Bay Area Point of Care Coordinators Webinar Rochester, Minnesota	12/2011
Point of care lactate in the detection of sepsis Teleconference Network of Texas Webinar Rochester, Minnesota	05/2012
Rapid HIV assays Bay State Point of Care Collaborative Web Meeting Rochester, Minnesota	06/2012
Medical complications of phlebotomy Mayo Medical Laboratories Phlebotomy Forum Rochester, Minnesota	08/2012
Point of care INR device evaluation Virginia Point of Care Network Webinar Rochester, Minnesota	08/2012
Blood Culture Update Mayo Medical Laboratories Phlebotomy Forum Rochester, Minnesota	05/2013
Glucose meters for hospital use North Texas Point of Care Network Webinar Rochester, Minnesota	08/2013
Efficacy of transcutaneous bilirubin screening BayChem 2013 (AACC): Emerging concepts in point of care testing San Leandro, California	09/2013
Getting to the right discharge number Utilization Management 2013: Mayo Medical Labs Conference Atlanta, Georgia	10/2013
Phlebotomy Top Gun 2013 Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	10/2013
Preventing critical proficiency testing failures North Country Point of Care Testing Network Minneapolis, Minnesota	10/2013

Inpatient laboratory utilization GME Core Competency Conference Kansas University Medical Center Kansas City, Kansas	01/2014
Transcutaneous Bilirubin North Texas Point of Care Network Webinar Rochester, Minnesota	02/2014
Laboratory Test Utilization MidMichigan Medical Center (Midland) Grand Rounds Midland, Michigan	08/2014
Laboratory test utilization: Practical solutions across laboratory medicine Utilization Management 2014: Mayo Medical Laboratories Conference Rochester, Minnesota	09/2014
Glucose Meter use in the ICU: How close is close enough? North Country Point of Care Network Annual Meeting St Paul, Minnesota	10/2014
Point of Care Lactate in the Detection of Sepsis North Country Point of Care Network Annual Meeting St Paul, Minnesota	10/2014
Laboratory test utilization AACC Southeast Section Teleconference Rochester, Minnesota	12/2014
Phlebotomy Top Gun 2015 Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	04/2015
Platelet function testing for detecting effects of antiplatelet agents Minnesota Clinical Laboratory Collaborative Rochester, Minnesota	04/2015
Utilization management: Inpatient test utilization Iowa CLMA Spring Meeting	05/2015
Glucose Meters in Acute Care Minnesota Clinical Laboratory Collaborative Brooklyn Center, Minnesota	04/2016
Glucose meter testing in critical care North Country Point of Care Testing Network Mankato, MN	10/2016
Platelet function tests for monitoring antiplatelet agent therapy Point-of-care Arizona webinar Rochester, Minnesota	02/2017
You want to stick me where? Risks of arterial puncture compared to venipuncture Mayo Medical Laboratories Phlebotomy Forum Webinar Rochester, Minnesota	03/2017
Demonstrating the effect of pre-analytical errors Mayo Medical Laboratories Phlebotomy Conference Rochester, MN	04/2017
Point of care coagulation testing Mayo Medical Laboratories Bleeding and Thrombosing Diseases Conference Rochester, MN	09/2017
Platelet function tests for monitoring antiplatelet agent therapy North Country Point of Care Network	10/2017

Oral

Update in Clinical Chemistry ASCP Workshop for Laboratory Professionals Baltimore, Maryland	03/2008
Update in Clinical Chemistry ASCP Workshop for Laboratory Professionals East Hanover, New Jersey	05/2009

Clinical Practice, Interests, and Accomplishments

Laboratory Director: Hospital Clinical Laboratories, Northeast and Northwest Clinic, Kasson Clinic, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN. Medical Director: Phlebotomy Services (Hilton Desk C, Baldwin, St. Mary's Hospital and Charlton Laboratory Services; Vascular Access and Testing), Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN.

Research Interests

Testing for aspirin resistance Red cell membrane stability Point of care and critical care testing

Research Grants Awarded**Active Grants****Other**

Principal Investigator	Estimating reference change values for tests of platelet function.. Funded by Mayo Clinic	01/2015 - 12/2015
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Completed Grants**Industry**

Program Director / Principal Investigator	Immature granulocyte (IG) counts as a predictor of severe sepsis and septic shock. Funded by Sysmex America	07/2012 - 12/2013
Co-Investigator	Utility of Accuvein device for visibility of veins during Venipuncture and Sclerotherapy / Ambulatory phlebectomy: MCHS - Utility of Accuvein device for visibility of veins during Venipuncture and Sclerotherapy / Ambulatory phlebectomy. Funded by Accuvein, LLC	08/2008 - 07/2009

Mayo Clinic

Principal Investigator	Spectroscopic evaluation of Band 3 on Red Blood Cell membranes in Hereditary Spherocytosis. Funded by Small Grants Program-Lab Medicine and Pathology	11/2005 - 11/2006
Principal Investigator	Evaluation of a transcutaneous bilirubin measurement system for use in preventing severe bilirubin toxicity in full-term newborns. Funded by Mayo Clinic Clinical Practice Innovation (CPI-10) Program	03/2006 - 03/2007
Program Director / Principal Investigator	Defining limitations of transcutaneous bilirubin measurement. Funded by SGP - Small Grants Program <\$10K	11/2011 - 11/2013
Program Director / Principal Investigator	Capillary lipid screening in children ages 9-11 years. Funded by SGP - Small Grants Program <\$10K	05/2013 - 05/2015
Co-Investigator	The Role of Platelet Reactivity in the Pathogenesis of Acute Coronary Syndromes. Funded by CR Programs	05/2007 - 06/2011
Co-Investigator	Evaluation of a transcutaneous bilirubin monitor in the outpatient setting. Funded by Scholarly Opportunity Award	10/2008 - 09/2010

Co-Investigator	Preliminary study of cytokine production and red cell membrane changes during blood bank storage: Preliminary study of cytokine production and red cell membrane changes during blood bank storage. Funded by SGP - Small Grants Program <\$10K	05/2009 - 05/2010
Co-Investigator	Effects of Propofol on Intraoperative PTH monitoring during parathyroidectomy. Funded by SGP - Small Grants Program <\$10K	01/2010 - 01/2011
Co-Investigator	Point-of-Care Glucose Meter Accuracy in the Operating Room. Funded by SGP - Small Grants Program <\$10K	04/2014 - 04/2016
Co-Investigator	Interprofessional Education to Practice: An Application of the Interprofessional Core Competencies. Funded by Endowment for Education Research Award (EERA)	01/2016 - 12/2016

Bibliography

Peer-reviewed Articles

1. **Karon BS**, Thomas DD. Molecular Mechanism of Ca-ATPase Activation by Halothane in Sarcoplasmic Reticulum. *Biochemistry*. 1993; 32:7503-7511. PMID: 8393342
2. **Karon BS**, Mahaney JE, Thomas DD. Halothane and Cyclopiiazonic Acid Modulate Ca-ATPase Oligomeric and Function in Sarcoplasmic Reticulum. *Biochemistry*. 1994; 33:13928-13937. PMID: 7947799
3. **Karon BS**, Nissen ER, Voss J, Thomas DD. A Continous Spectrophotometric Assay for Simutaneous Measurement of Calcium Uptake and ATP Hydrolysis in Sarcoplasmic Reticulum. *Anal Biochem*. 1995; 227:328-333. PMID: 7573954
4. **Karon BS**, Nissen ER, Kutchai H, Thomas DD. Anesthetics Alter the Physical and Functional Properties of the Ca-ATPase in Cardiac Sarcoplasmic Reticulum. *Biophys J*. 1995; 68:936-945. PMID: 7756557 PMCID: 1281817
5. Shi Y, **Karon BS**, Kutchai H, Thomas DD. Phospholamban-Dependent Effects of C12E8 on Calcium Transport and Molecular Dynamics in Cardiac Sarcoplasmic Reticulum. *Biochemistry*. 1996; 35:13393-13399. PMID: 8873607
6. **Karon BS**, Kempe KC, Scott MG. Heparin Interference with Sodium and Albumin Assays. *Clin Chem*. 1997; 43(4):697-698. PMID: 9105280
7. **Karon BS**, Daly TM, Scott MG. Mechanisms of Dopamine and Dobutamine Interference in Biochemical Tests Using Peroxide and Peroxidase to Generate Chromophore. *Clin. Chem.*. 1998; 43: (1)155-60.
8. Clark AC, **Karon BS**, Frieden C. Cooperative Effects of Potassium, Magnesium, and Magnesium-ADP on the Release of Dihydrofolate Reductase from the Chaperonin GroEL. *Protein Sci*. 1999; 8:2166-2176. PMID: 10548063 PMCID: 2144136
9. **Karon BS**, Autry JM, Shi Y, Garnett CE, Inesi G, Jones LR, Kutchai H, Thomas DD. Different Anesthetic Sensitivities of Skeletal and Cardiac Isoforms of the Ca-ATPase. *Biochemistry*. 1999; 20:9301-9307.
10. Fantz CR, Powell C, **Karon BS**, Parvin CA, Hankins K, Dayal M, Sadovsky Y, Johari V, Apple FS, Gronowski AM. Assessment of the Dlagnostic Accuracy of the TDx-FLM II to Predict Fetal Lung Maturity. *Clin Chem*. 2002; 48(5):761-765. PMID: 11978603
11. Winn-McMillan T, **Karon BS**. Comparison of the TDx-FLM II and lecithin to sphingomyelin ratio assays in predicting fetal lung maturity. *Am J Obstet Gynecol*. 2005 Sep; 193(3 Part 1):778-82. PMID: 16150274 PMCID: 0
12. * Babic N, Chen LS, **Karon BS**, Santrach PJ. Evaluation of the Clinitek Status and Clinitek 500 Urine Dipstick Analyzers. *Point of Care*. 2006 Jun; 5(2):80-3.
13. * Chen LS, Babic N, Yao JDC, **Karon BS**. Comparative evaluation of rapid HIV antibody tests Point of Care. 2007; 6(2):109-11.
14. Hemmer PR, **Karon BS**, Hernandez JS, Cuthbert C, Fidler ME, Tazelaar HD. Leadership and management training for residents and fellows: a curriculum for future medical directors. *Arch Pathol Lab Med*. 2007 Apr; 131(4):610-4. PMID: 17425393 DOI: 10.1043/1543-2165(2007)131[610:LAMTFR]2.0.CO;2
15. **Karon BS**, Gandhi GY, Nuttall GA, Bryant SC, Schaff HV, McMahon MM, Santrach PJ. Accuracy of roche accu-chek inform whole blood capillary, arterial, and venous glucose values in patients receiving intensive intravenous insulin therapy after cardiac surgery. *Am J Clin Pathol*. 2007 Jun; 127(6):919-26. PMID: 17509989 DOI: 10.1309/6RFQCKAAJGKWB8M4
16. **Karon BS**, Scott R, Burritt MF, Santrach PJ. Comparison of lactate values between point-of-care and central laboratory analyzers. *Am J Clin Pathol*. 2007 Jul; 128(1):168-71. PMID: 17580286 DOI: 10.1309/HBQEFDPH34MKK5GP
17. * Algeciras-Schimmich A, Cook WJ, Milz TC, Saenger AK, **Karon BS**. Evaluation of hemoglobin interference in capillary heel-stick samples collected for determination of neonatal bilirubin. *Clin Biochem*. 2007 Nov; 40(16-17):1311-6. Epub 2007 Aug 11. PMID: 17825810 DOI: 10.1016/j.clinbiochem.2007.08.003
18. * Scott RJ, Deobald G, Griesmann L, Wockenfus AM, **Karon BS**. Evaluation of multiple whole blood glucose methods compared with a laboratory plasma hexokinase reference assay. *Point of Care*. 2008; 7:43-6.
19. Sheikh-Ali M, **Karon BS**, Basu A, Kudva YC, Muller LA, Xu J, Schwenk WF, Miles JM. Can serum beta-hydroxybutyrate be used to diagnose diabetic ketoacidosis? *Diabetes Care*. 2008 Apr; 31(4):643-7. Epub 2008 Jan 09. PMID: 18184896 DOI: 10.2337/dc07-1683

20. **Karon BS**, Griesmann L, Scott R, Bryant SC, Dubois JA, Shirey TL, Presti S, Santrach PJ. Evaluation of the impact of hematocrit and other interference on the accuracy of hospital-based glucose meters. *Diabetes Technol Ther.* 2008 Apr; 10(2):111-20. PMID: 18260774 DOI: 10.1089/dia.2007.0257
21. **Karon BS**, Wockenfus A, Scott R, Hartman SJ, McConnell JP, Santrach PJ, Jaffe AS. Aspirin responsiveness in healthy volunteers measured with multiple assay platforms. *Clin Chem.* 2008 Jun; 54(6):1060-5. Epub 2008 Apr 17. PMID: 18420732 DOI: 10.1373/clinchem.2007.101014
22. **Karon BS**, McBane RD, Chaudhry R, Beyer LK, Santrach PJ. Accuracy of capillary whole blood international normalized ratio on the CoaguChek S, CoaguChek XS, and i-STAT 1 point-of-care analyzers. *Am J Clin Pathol.* 2008 Jul; 130(1):88-92. PMID: 18550476 DOI: 10.1309/DEK41W141Y0KRN8A
23. * Ridenour RV, Gada RP, Brost BC, **Karon BS**. Comparison and validation of point of care lactate meters as a replacement for fetal pH measurement. *Clin Biochem.* 2008 Dec; 41(18):1461-5. Epub 2008 Sep 18. PMID: 18824163 DOI: 10.1016/j.clinbiochem.2008.08.088
24. **Karon BS**, Teske A, Santrach PJ, Cook WJ. Evaluation of the BiliChek noninvasive bilirubin analyzer for prediction of serum bilirubin and risk of hyperbilirubinemia. *Am J Clin Pathol.* 2008 Dec; 130(6):976-82. PMID: 19019777 DOI: 10.1309/AJCPRX1E3NWCXHMZ
25. **Karon BS**, Hoyer JD, Stubbs JR, Thomas DD. Changes in Band 3 oligomeric state precede cell membrane phospholipid loss during blood bank storage of red blood cells. *Transfusion.* 2009 Jul; 49: (7)1435-42. PMID: 19389033 PMID: 3649012 DOI: 10.1111/j.1537-2995.2009.02133.x
26. Saenger AK, Lockwood C, Snozek CL, Milz TC, **Karon BS**, Scott MG, Jaffe AS. Catecholamine interference in enzymatic creatinine assays. *Clin Chem.* 2009 Sep; 55(9):1732-6. Epub 2009 Jul 09. PMID: 19589845 DOI: 10.1373/clinchem.2009.127373
27. **Karon BS**, Koch CD, Wockenfus AM, Brown JK. Accuracy of whole blood glucose measurement when venous catheter blood samples are used on glucose meters. *Diabetes Technol Ther.* 2009 Dec; 11(12):819-25. PMID: 20001684 DOI: 10.1089/dia.2009.0074
28. * Korpi-Steiner NL, Williamson EE, **Karon BS**. Comparison of three whole blood creatinine methods for estimation of glomerular filtration rate before radiographic contrast administration. *Am J Clin Pathol.* 2009 Dec; 132 (6):920-6 PMID: 19926585 DOI: 10.1309/AJCPT5FEY0VCGOZ
29. **Karon BS**, Boyd JC, Klee GG. Glucose meter performance criteria for tight glycemic control estimated by simulation modeling. *Clin Chem.* 2010 Jul; 56(7):1091-7. Epub 2010 May 28. PMID: 20511447 DOI: 10.1373/clinchem.2010.145367
30. Otte KK, Zehe SC, Wood AJ, Hernandez JS, **Karon BS**. Legal aspects of laboratory medicine and pathology for residents and fellows: a curriculum for pathology training programs. *Arch Pathol Lab Med.* 2010 Jul; 134(7):1029-32. PMID: 20586633 DOI: 10.1043/2009-0251-OA.1
31. **Karon BS**, Wickremasinghe AC, Lo SF, Saenger AK, Cook WJ. BiliChek transcutaneous bilirubin meter overestimates serum bilirubin as measured by the Doumas reference method. *Clin Biochem.* 2010 Aug; 43(12):1009-12. Epub 2010 May 06. PMID: 20451510 DOI: 10.1016/j.clinbiochem.2010.04.065
32. Hanchard NA, Skierka J, Weaver A, **Karon BS**, Matern D, Cook W, O'Kane DJ. UGT1A1 sequence variants and bilirubin levels in early postnatal life: a quantitative approach. *BMC Med Genet.* 2011; 12:57. Epub 2011 Apr 22. PMID: 21513526 PMID: 3107779 DOI: 10.1186/1471-2350-12-57
33. * Jaben EA, Koch CD, **Karon BS**. Lipid emulsion solution: A novel cause of hemolysis in serum and plasma blood samples. *Clin Biochem.* 2011 Feb; 44(2-3):254-6. Epub 2010 Nov 09. PMID: 21070759 DOI: 10.1016/j.clinbiochem.2010.10.010
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