

# Curriculum Vitae and Bibliography (updated 10/06/2014)

## Bradley S. Karon, MD, PhD

### Personal Information

Place of Birth: (b) (6)  
Citizenship: (b) (6)  
Work Address: 507-538-4921  
Email Address: Karon.Bradley@mayo.edu

### 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 Professor of Laboratory Medicine & Pathology** - Mayo Clinic College of Medicine 04/2010 - Present  
**Associate Dean for Academic Affairs** - Mayo School of Health Sciences, College of Medicine, Department of Education Services, Rochester, Minnesota 03/2014 - Present

### Education

University of Minnesota - BA, Summa cum laude, Chemistry major, Biology minor (b) (6)  
University of Minnesota Medical School - MD/PhD (b) (6)  
Barnes-Jewish Hospital, Washington University School of Medicine - Resident, Clinical Pathology (b) (6)

### Certifications

#### Board Certifications

##### American Board of Pathology

Clinical Pathology 1999 - Present

##### Mayo Clinic Quality Academy

Mayo Clinic Quality Fellow: Bronze Level Certification 11/2011

Mayo Clinic Quality Fellow: Silver Level Certification 01/2013

### Licensure

Nevada (b) (5) (Medical) 07/1999 - 10/2005  
Minnesota (b) (6) (Medical) 11/2004 - Present

### Honors/Awards

**B.A., Summa cum laude, Phi Beta Kappa** - University of Minnesota, Twin Cities (b) (6)  
**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

<b>NACB Distinguished Abstract Award</b> - National Academy of Clinical Biochemistry	07/2006
<b>AACC Outstanding Speaker Award</b> - American Association for Clinical Chemistry	01/2009
<b>AACC Outstanding Speaker Award</b> - American Association for Clinical Chemistry	01/2010
<b>AACC Pediatric and Maternal-Fetal Division Abstract Award for Research Excellence</b> - American Association for Clinical Chemistry	07/2012
<b>Best abstract award, 24th International AACC Symposium on Point of Care Testing</b> - American Association for Clinical Chemistry	10/2012
<b>Outstanding Physician/Scientist Educator</b> - Mayo Clinic School of Health-Related Sciences, Mayo Clinic College of Medicine	2013
<b>AACC Outstanding Speaker Award</b> - American Association for Clinical Chemistry	06/2013
<b>AACC Outstanding Speaker Award</b> - American Association for Clinical Chemistry	05/2014

### Previous Professional Positions and Major Appointments

<b>Assistant Medical Director, Clinical Laboratory</b> - Sunrise Hospital & Medical Center/Sunrise Children's Hospital, Las Vegas, Nevada Medical Director: Transfusion services, Chemistry and Toxicology, Immunology and Serology, Microbiology, Point of Care Testing	1999 - 2004
<b>Member</b> - Antibiotic Subcommittee, Sunrise Hospital & Medical Center/Sunrise Children's Hospital, Las Vegas, Nevada	2000 - 2004
<b>Chair</b> - Blood Usage Committee, Sunrise Hospital & Medical Center/Sunrise Children's Hospital, Las Vegas, Nevada	2001 - 2004
<b>Chair</b> - Infection Control Committee, Sunrise Hospital & Medical Center/Sunrise Children's Hospital, Las Vegas, Nevada	2003 - 2004
<b>Senior Associate Consultant</b> - Division of Clinical Core Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota	09/2004 - 09/2007
<b>Assistant Professor of Laboratory Medicine &amp; Pathology</b> - Mayo Clinic College of Medicine	04/2005 - 03/2010

### Professional & Community Memberships, Societies and Services

#### Professional Memberships & Services

American Board of Clinical Pathology Diplomate	
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 North Central Deputy Regional Commissioner	11/2013 - Present
Continuous Compliance Committee Member	08/2006 - Present
Vice Chair	01/2012 - 06/2012
Chair	06/2012 - Present

Point of Care Testing Committee	
Member	01/2007 - 12/2010
Commission on Laboratory Accreditation	
Member	06/2012 - Present
Society for the Advancement of Blood Management	
Founding Member	
American Society for Clinical Pathology	
Fellow	
National Academy of Clinical Biochemistry	
Fellow	
American Pathology Foundation	
Member	
Academy of Clinical Laboratory Physicians and Scientists	
Member	
American Association of Blood Banks	
Annual Meeting Education Program Subunit	
Member	01/2004 - 12/2007
American Association for Clinical Chemistry	
Strategies Online Editorial Advisory Board	
Member	01/2006 - 12/2010
Chair	01/2009 - 12/2010
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
Critical and Point of Care Testing Division	
Chair-Elect	01/2009 - 12/2009
Chair	01/2010 - 12/2010
Past Chair	01/2011 - 12/2011
Arnold O. Beckman Conference	
Conference Organizer, San Diego, California	04/2011
Pediatric and Maternal Fetal Division	
Member at Large	01/2014 - Present
Division Management Group	
Member	03/2014 - Present
Clinical and Laboratory Standards Institute	
Subcommittee on Method Comparison of Glucose Methodologies	
Member	11/2006 - Present
Subcommittee on Point-of-care Blood Glucose Testing in Acute and Chronic Care Facilities	

Member Food and Drug Administration	11/2008 - Present
Advisory Panel Member, Silver Spring, Maryland Hematology and Pathology Medical Devices panel	04/2014 - Present

## Journal Responsibilities

### Journal Editorial Responsibilities

Medical Laboratory Observer Contributing Editor	05/2009 - 06/2011
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### Journal Other Responsibilities

Clinical Biochemistry Scientific Reviewer	
Clinical Chemistry Scientific Reviewer	
Diabetes Technology and Therapeutics Scientific Reviewer	
Medical Laboratory Observer Panel Member	01/2008 - 06/2011

## Educational Activities

### Curriculum/Course Development

Co-Director: Pediatric Residency Pathology Elective Co-Developer of Elective Rotation University of Nevada School of Medicine Las Vegas, Nevada	2002 - 2004
Clinical Chemistry Curriculum Committee; Laboratory Medicine and Pathology Residency Program Member Mayo School of Graduate Medical Education Rochester, Minnesota	2004 - Present
Course Director: Leadership and Management Department of Laboratory Medicine and Pathology Mayo School of Graduate Medical Education Rochester, Minnesota	2005 - Present
Course Director: Phlebotomy; Beyond the basics Mayo Collaborative Services, Inc. Woodstock, Vermont	05/2007
Medical Director, Clinical Laboratory Sciences Program Mayo School of Health Sciences	07/2008 - 03/2014
Medical Director, Phlebotomy Technician Program Mayo School of Health Sciences	01/2010 - 03/2014

### Teaching Intramural

Leadership and Management Course Department of Laboratory Medicine and Pathology Reimbursement and Regulatory Issues in Pathology Mayo School of Graduate Medical Education Rochester, Minnesota	10/2004
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Clinical Chemistry Seminar Series Department of Laboratory Medicine and Pathology Issues in Pediatric Clinical Chemistry Mayo School of Graduate Medical Education Rochester, Minnesota	03/2005
Clinical Chemistry Seminar Series Department of Laboratory Medicine and Pathology Basic Laboratory Statistics Mayo School of Graduate Medical Education Rochester, Minnesota	07/2005
Clinical Chemistry Seminar Series Department of Laboratory Medicine and Pathology Quality Control Theory Mayo School of Graduate Medical Education Rochester, Minnesota	07/2005
Clinical Chemistry Seminar Series Department of Laboratory Medicine and Pathology Blood Gas Made Easy Mayo School of Graduate Medical Education Rochester, Minnesota	03/2006
Clinical Chemistry Seminar Series Department of Laboratory Medicine and Pathology Instrument Selection Mayo School of Graduate Medical Education Rochester, Minnesota	07/2006
Quality Control Theory and Practical Applications Clinical Laboratory Sciences Program Mayo School of Health Sciences	07/2008
Basic Blood Gas Analysis Clinical Laboratory Sciences Program Mayo School of Health Sciences	08/2008
Pregnancy-related chemistry testing Clinical Laboratory Sciences Program Mayo School of Health Sciences	09/2008

**Mentorship**

(b)(6) (Clinical Chemistry Fellow) <b>Description:</b> Evaluation of urinalysis analyzers <b>Outcomes:</b> -1 peer reviewed abstract published -1 peer reviewed manuscript published	01/2004 - 01/2005
(b)(6) (Clinical Chemistry Fellow) <b>Description:</b> Rapid HIV tests <b>Outcomes:</b> -1 peer reviewed abstract published -1 peer reviewed manuscript published	01/2004 - 01/2005
(b)(6) (Clinical Chemistry Fellow) <b>Description:</b> Evaluation of HCG tests <b>Outcomes:</b> -1 peer reviewed abstract published	01/2005 - 01/2006

(b)(6) (Clinical Chemistry Fellow)	01/2006 - 01/2007
<b>Description:</b> Hemolysis interference with bilirubin assays	
<b>Outcomes:</b> -1 peer reviewed abstract published -1 peer reviewed manuscript published	
(b)(6) (Pathology Resident)	01/2007 - 01/2008
<b>Outcomes:</b> - 1 peer-reviewed abstract published - 1 peer-reviewed manuscript published	
(b)(6) (Clinical Chemistry Fellow)	08/2007 - 08/2008
<b>Outcomes:</b> - 1 peer-reviewed abstract published - 1 peer-reviewed manuscript published	
(b)(6) (Clinical Chemistry Fellow)	08/2007 - 08/2008
<b>Outcomes:</b> - 1 peer-reviewed abstract published - 1 peer-reviewed manuscript published	
(b)(6) (Pathology Resident)	01/2010 - 01/2011
<b>Current Status:</b> Senior Associate Consultant, Lab Med and Pathology, Mayo Clinic Arizona	
<b>Outcomes:</b> --2 peer-reviewed abstracts published --3 peer-reviewed manuscripts published	
(b)(6) (Fellow)	07/2012 - 07/2013
<b>Current Status:</b> Assistant Lab Director, Beth Israel Hospital	
<b>Outcomes:</b> 4 national abstract presentations	

## Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities

### Mayo Clinic

Department of Education Administration

Mayo Clinic College of Medicine

Mayo Clinic School of Health-Related Sciences

Associate Dean for Academic Affairs, Rochester, Minnesota

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

Orders and Scheduling Committee

Member

09/2006 - Present

Priorities of Laboratory Testing Committee

Member	01/2007 - Present
Vice Chair	01/2009 - Present
Allied Health Professional Academic and Promotions Committee Member, Rochester, Minnesota	01/2012 - Present

## Presentations Extramural

### National/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
Laboratory testing for diabetes: An update American Society for Clinical Laboratory Science Annual Meeting Chicago, Illinois	07/2009
Billing, charging and reimbursement: Unrelated, irrelevant or obscure? Society for Young Clinical Laboratorians Workshop Chicago, Illinois	07/2009
Update in Diabetes Testing and Glycemic Control American Society for Clinical Pathology Annual Meeting Chicago, Illinois	10/2009
Did You Know? Phlebotomy case studies revealed Mayo Medical Labs Audioconference Rochester, Minnesota	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 Radiometer University Webinar Rochester, Minnesota	02/2011
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
<b>Oral</b>	
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
Tips for inspecting a point of care program American Association for Clinical Chemistry Meeting Washington, District of Columbia	07/2008
Patient safety and tight glycemic control: How close is close enough? American Association for Clinical Chemistry Meeting Washington, District of Columbia	07/2008
Effect of different glucose meter error tolerances on dosing errors during intravenous insulin administration AACC International Point of Care Meeting Barcelona, Spain	09/2008
Critical and point of care testing for special populations AACC International Point of Care Meeting Barcelona, Spain	09/2008
Impact of measurement technology on risk assessment for neonatal hyperbilirubinemia American Association for Clinical Chemistry Meeting Chicago, Illinois	07/2009
Establishing a formal leadership and management curriculum: One institution's tale 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

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
Determining Accuracy Requirements for Glucose Meters 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
Motivation and conflict resolution: Stories from the trenches American Association for Clinical Chemistry Meeting Houston, Texas	07/2013
Comparison of viscoelastic to routine coagulation tests 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

**Regional****Invited**

Who Pays for Clinical Pathology? Invited lecture, Washington University St. Louis, Missouri	03/2002
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
Trends in Occupational Exposure Mayo Medical Labs Phlebotomy Conference Rochester, Minnesota	03/2007
CAP Inspector Training Seminar Regional Inspector Training Seminar Madison, Wisconsin	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 Rochester, Minnesota	03/2010
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

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
Getting to the right discharge number Utilization Management 2013: Mayo Medical Labs Conference Atlanta, Georgia	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
<b>Oral</b>	
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

## Research Grants Awarded

### Active Grants

#### Industry

Program Director / Principal Investigator	Immature granulocyte (IG) counts as a predictor of severe sepsis and septic shock. Funded by Sysmex America.	07/01/2012 - 12/31/2013
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#### Mayo Clinic

Program Director / Principal Investigator	Capillary lipid screening in children ages 9-11 years. Funded by SGP - Small Grants Program (b) (4).	05/10/2013 - 05/09/2015
Co-Investigator	Point-of-Care Glucose Meter Accuracy in the Operating Room. Funded by SGP - Small Grants Program (b) (4)	04/25/2014 - 04/24/2016

**Completed Grants  
Industry**

Co-Investigator	Utility of Accuvein device for visibility of veins during Venipuncture and Sclerotherapy / Ambulatory phlebectomy in: MCHS - Utility of Accuvein device for visibility of veins during Venipuncture and Sclerotherapy / Ambulatory phlebectomy. Funded by Accuvein, LLC.	08/2008 - 07/2009
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**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 (b) (4)	11/2011 - 11/2013
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. Funded by SGP - Small Grants Program (b) (4)	05/2009 - 05/2010
Co-Investigator	Effects of Propofol on Intraoperative PTH monitoring during parathyroidectomy. Funded by SGP - Small Grants Program (b) (4)	01/2010 - 01/2011

## 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 Cyclopiazonic 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 Continuous Spectrophotometric Assay for Simultaneous 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):155-160.
8. **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.
9. 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.
10. Fantz CR, Powell C, **Karon BS** , Parvin CA, Hankins K, Dayal M, Sadovsky Y, Johari V, Apple FS, Gronowski AM. Assessment of the Diagnostic 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.
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-Schimnich 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. **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.
24. \* 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.
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. Epub 2009 Mar 23. 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. \* 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.

28. **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.
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