

Curriculum Vitae

Date: July 7, 2020

PERSONAL INFORMATION

Name: **Marisa B. Marques, MD**
Place of Birth: Livramento, RS, Brazil
Citizenship: United States, Brazil
Foreign Languages: Portuguese, Spanish

RANK/TITLE: **Professor of Pathology**

Business Address: The University of Alabama at Birmingham
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HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:

March 1999-July 2015	Section Head, Hemostasis, Division of Laboratory Medicine, University of Alabama at Birmingham, Birmingham, AL
April 2001 – July 2015	Medical Director, UAB Coagulation Service, Division of Laboratory Medicine, University of Alabama at Birmingham, Birmingham, AL
July 2003 – June 2004	Interim Section Head, Transfusion Medicine Services, Division of Laboratory Medicine, University of Alabama at Birmingham, Birmingham, AL
October 2003-June 2015	Consultant, Veterans Administration Medical Center, Pathology & Laboratory Medicine Service, Birmingham, AL
July 2004 – present	Section Head, Transfusion Medicine Section, Division of Laboratory Medicine, University of Alabama at Birmingham, Birmingham, AL
February 2006 – August 2018	Laboratory Director, Anesthesia/CICU laboratory, University of Alabama Hospital, Birmingham, AL
September 2007-present	Medical Director, Transfusion Services, University of Alabama Hospital, Birmingham, AL
October 2013-February 2015	Medical Director, Blood Bank, Baptist Health System hospitals, Montgomery, AL
February 15-present	Consultant, Blood Bank, Baptist Health System hospitals, Montgomery, AL

November 2014 – present	Consultant, Blood Bank, Northeast RMC and affiliated hospitals, Anniston, AL
August 2017 – present	Consultant in Apheresis, Children’s Hospital of Alabama, Birmingham, AL
January 2018- present	Medical Director, Apheresis Collection Facility, University of Alabama Hospital, Birmingham, AL
November 2018 – present	Consultant, Blood Bank, Riverview RMC, Gadsden, AL
December 2019 – present	Associate Division Director, Division of Laboratory Medicine, Department of Pathology, University of Alabama at Birmingham, Birmingham, AL
April 2020 – present	Interim Division Director, Division of Laboratory Medicine, Department of Pathology, University of Alabama at Birmingham, Birmingham, AL

Other Professional Appointments

July 2003 – present	Director, Transfusion Medicine Fellowship Program, University of Alabama at Birmingham, Department of Pathology, Birmingham AL
October 2006- present	Medical Director, UAB Highlands Blood Bank

PROFESSIONAL CONSULTANTSHIPS:

None

EDUCATION:

Institution	Degree	Year
Federal University of Rio Grande do Sul, Brazil	MD	1983

LICENSURE:

1983 Rio Grande do Sul, License Registration #13280
 1983 Certified, Medical Association of Rio Grande do Sul Examination
 1985 ECFMG Examinations - Certificate # 369-715-8
 1986 Federal License Examination (FLEX)
 1996 Alabama Medical License #19961

BOARD CERTIFICATION:

1997 Diplomate of The American Board of Pathology (ABP) in combined Anatomic and Clinical Pathology
 1998 Diplomate of The American Board of Pathology in Hematology

2000 Diplomat of The American Board of Pathology in Blood Banking/Transfusion Medicine

POSTDOCTORAL TRAINING:

Year	Institution
December 1983-1985	Resident in Medicine, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil
April 1986 - June 1988	Visiting Fellow, Fogarty International, Laboratory of Clinical Investigation, NIAID, NIH, Bethesda, MD
July 1988 – March 1990	Research Fellow, Division of Infectious Disease, Beth Israel Hospital, Harvard Medical School, Boston, MA
May 1990 – June 1992	Research Fellow, Channing Laboratory, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA
January 1994 – June 1997	Resident in Anatomic and Clinical Pathology, University of Alabama at Birmingham, Birmingham, AL
July 1997 – June 1998	Fellow in Hematopathology, University of Alabama at Birmingham, Birmingham, AL
April 6-11, 2003	Program for Health Care Negotiation and Conflict Resolution Leadership, Harvard School of Public Health, Boston, MA
January 20-25, 2007	Physician in Management Seminar, American College of Physician Executives, Amelia Island, FL

ACADEMIC APPOINTMENTS: (In reverse chronological order)

Year	Rank/Title	Institution
October 2008 – present	Professor, Division of Laboratory Medicine, Department of Pathology	University of Alabama at Birmingham, Birmingham, AL
October 2004 – September 2008	Associate Professor, Division of Laboratory Medicine, Department of Pathology	University of Alabama at Birmingham, Birmingham, AL
June 2003 - July 2008	Mentor, UAB Minority Medical Education Program	University of Alabama Medical School, Birmingham, AL
March 2002 – June 2008	UASOM Pathology Career Advisor	University of Alabama Medical School, Birmingham, AL

October 2001 – September 2004	Member, Dean’s Council for Graduate Medical Education	University of Alabama at Birmingham, Birmingham, AL
August 2001 – June 2007	UASOM Mentor Program	University of Alabama Medical School, Birmingham, AL
August 1998 – September 2004	Assistant Professor, Division of Laboratory Medicine, Dept of Pathology	University of Alabama at Birmingham, Birmingham, AL
July 1992 – June 1993	Research Associate in Medicine	Harvard Medical School, Boston, MA
March 1983 – December 1983	Teaching Assistant, Department of Internal Medicine	Federal University of Rio Grande of Sul, Porto Alegre, RS, Brazil
March 1979 – December 1982	Teaching Assistant, Department of Biochemistry	Federal University of Rio Grande of Sul, Porto Alegre, RS, Brazil

AWARDS/HONORS:

1986-1988	Visiting Fellow, Fogarty International, Laboratory of Clinical Investigation, NIAID, NIH, Bethesda MD
1995-1996	Chief Resident in Laboratory Medicine, Department of Pathology, University of Alabama at Birmingham, Birmingham AL
1996	Paul E. Strandjord Young Investigator Award from the Academy of Clinical Laboratory Physicians and Scientists (ACLPS)
2001	Excellence in Resident Education in Clinical Pathology Award
2002	Excellence in Resident Education in Clinical Pathology Award
2002	Best Teacher Award from Hematology/Oncology fellows to non-Hematology faculty
2003	Award of Excellence for “Care” – UAB University Hospital
2005	Excellence in Resident Education in Clinical Pathology Award
2006	Argus Society Award nominee
2008	Argus Society Award – Best Lecturer – Hematopathology, Class of 2009
2008	Lecturer Award – ASEFA Annual Meeting
2009	Argus Society Award – Best Lecturer – Hematopathology, Class of 2010
2009	Argus Society Award – Best Lecturer Runner-Up – Hematopathology, Class of 2011
2009	Shu T. Huang Award for Excellence in Laboratory Medicine Education
2009-2018	Best Doctors in America
2010	Argus Society Award – Best Lecturer Runner-Up – Hematopathology, Class of 2012
2010	Shu T. Huang Award for Excellence in Laboratory Medicine Education
2010	Top-rated Hospital Medical Director (perfect score), UAB Hospital
2011	Becky Trigg Outstanding Woman Faculty Member
2012	First Place, Innovation Award, Blood Management Program, UAB Hospital
2013	Argus Society Award – Best Lecturer Nominee – Hematopathology, Class of 2015
2014	Argus Society Award – Best Lecturer Nominee – Hematopathology, Class of 2016
2014	Alpha Omega Alpha Honor Medical Society, UAB

- 2015 Klaus Mayer Lecture in Laboratory Medicine, Memorial Sloan Kettering Cancer Center
- 2016 Inaugural Executive Section Editor of Anesthesia&Analgesia new section “Blood Management”
- 2017 Presidential Award – American Society for Apheresis (ASFA)
- 2017 Excellence in Mentorship Award – American Medical Women’s Association (AMWA)
- 2017 Award for Outstanding Contributions to Management Sciences and Patient Safety (MSPS) (AACC)
- 2017 Argus Society Award – Best Lecturer Nominee – Hematopathology, Class of 2019
- 2018 Dean’s Excellence Award in Teaching, Senior Faculty

PROFESSIONAL SOCIETIES:

- 2015- Alpha Omega Alpha Honor Medical Society, UAB
- 2014- Society for the Advancement of Blood Management (SABM)
- 2013-2016 American Society of Nephrology (ASN)
- 2010- American Medical Women’s Association (AMWA)
- 2004- American Society of Hematology (ASH)
- 2002-2014 International Society on Thrombosis and Haemostasis (ISTH)
- 1999- American Society for Apheresis (ASFA)
- 1998- AABB
- 1996- Academy of Clinical Laboratory Physicians and Scientists (ACLPS)
- 1995-2016 College of American Pathologists (CAP)
- 1995- American Society for Clinical Pathology (ASCP)

MEMBERSHIPS:

See “Professional Societies”

COUNCILS AND COMMITTEES:

National

- 2001-2004 Nominations and Awards Committee, Academy of Clinical Laboratory Physicians and Scientists (ACLPS)
- 2004-2014 Education Committee, American Society for Apheresis (ASFA)
- 2005-present Clinical Applications Committee, ASFA
- 2005-2008 International Committee, ASFA
- 2006-2009 Chair, Performance Metrics Subcommittee, ASFA
- 2007 Co-chair, scientific program, ASFA annual meeting, Nashville, TN
- 2007-2012 Clinical Transfusion Medicine Committee, AABB
- 2007-2011 Annual Meeting Education Program Unit, AABB
- 2008-2010 ASFA Board of Directors - Medical Director
- 2008-2012 ACLPS Executive Council
- 2008-2018 Clinical Laboratory Integration into Healthcare Collaborative (CLIHC), CDC
- 2009-2012 Scientific Committee on Hematopathology and Clinical Laboratory Hematology, American Society of Hematology (ASH)
- 2009-present AABB Press Editorial Board
- 2009-2014 Education Committee, ACLPS

2009-2011	PRISE Committee, ASCP
2010-2011	TMISE Committee, ASCP
2010-2011	Secretary, ASFA
2010-2011	ASFA Liaison to the AABB education program
2011-2012	Treasurer, ASFA
2012-2014	National Comprehensive Cancer Network (NCCN) Cancer and Chemotherapy-induced Anemia Panel Member
2012	The Joint Commission Overuse Summit member (ASCP representative)
2012-2013	Vice-President, ASFA
2012-2015	Blood Banking Examination Committee, ASCP Board of Certification
2013-2014	President-Elect, ASFA
2013-2014	Chair, Organizing Committee ASFA/WAA 2014 conference
2013-2016	Commission on Continuing Professional Development (CCPD), ASCP
2013-2015	Laboratory Medicine Best Practices (LMBP™) Expert Panel, Centers for Disease Control and Prevention (CDC)
2014-2015	President, ASFA
2015-2016	Past-President, ASFA
2015-	Chair, Qualification in Apheresis exam, ASCP Board of Certification
2015-2016	President-elect, ACLPS
2015-2016	Treasurer, Society for the Advancement of Blood Management (SABM)
2016-2017	President, ACLPS
2017-2018	Immediate Past-President, ACLPS
2018-2019	Past-President, ACLPS
2019-	Test Development and Advisory Committee for Blood Banking/Transfusion Medicine, American Board of Pathology (ABP)
2019-	Bylaws Committee, ASFA

University

1999-2005	Department of Pathology Residency Selection Committee
2004-2008	Senator, UAB Faculty Senate
2004-2006	Member, Faculty Subcommittee, LCME Accreditation Preparation Process
2006-2007	Member, Commission on the Status of Women
2007-2008	Senator-at-large, UAB Faculty Senate

University Hospital

1998- 2003	Transfusion Medicine/Blood Bank Fellowship Committee
1998- 2003	Blood Utilization Committee, member
2001-2004	Dean's Council for Graduate Medical Education
2003-2008	Chair, Blood Utilization Committee (BUC)
2003-2010	Quality Council
2003-present	Blood Banking/Transfusion Medicine Fellowship, Program Director
2006-2014	Critical Care Committee
2006-2010	Utilization Review Committee
2007-2018	Medical Directors Council
2008-2009	Anticoagulation Task Force
2008-present	Chair, Blood Utilization and Management Committee (BUMC)

2012-2015	Laboratory Optimization Committee (LOC)
2013-2014	UABHS Anticoagulation Task Force
2013-2015	Cardiovascular Blood Management Task Force
2013-2015	Pharmacy & Therapeutics Committee
2016-2019	Promotion and Tenure Committee, Department of Pathology
2020-	Pharmacy & Therapeutics Committee – Anticoagulation Subcommittee

Health Services Foundation

2000-present	"Dear Doctors" column consultant
2002-2004	HSF-GEF review committee for Medical Education Initiatives
2007-2011	Performance Improvement Patient Safety Committee
2008-present	Anticoagulation Standardization Committee
2009	Ambulatory EHR Executive Steering Team
2009	Ambulatory EHR Laboratory Orders Team Physician Sponsor

Veterans Affairs Medical Center

2003-2015	Veterans Administration Transfusion Practice Committee
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Community

1998-present	Chamber Choir, Saint Peter Catholic Church
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UNIVERSITY ACTIVITIES:

Medical/ Dental School

1999-present	Medical School Pathology Course – lecturer
1999-2001	Dental-Optometry Pathology Course – lecturer
1999-2010	Dental Clinical Pathology Graduate Course - course master
2000-2007	Medical School Pharmacology Course - lecturer
2000-2001	Dental-Optometry Pharmacology Course – lecturer
2003	Medical Student Research Day - judge
2007-2010	Scholarship Committee – University of Alabama School of Medicine (UASOM)
2008, 2009, 2011	Admissions Committee - UASOM
2008-present	Special Topics course in Appropriate Laboratory Test Utilization, UASOM
2008-2013	Faculty Advisor, UASOM American Medical Women’s Association (AMWA)
2015-2018	Admissions Committee – UASOM
2009-2012	Mentor, Scholar activity (various students)
2016-2017	Membership chair, UASOM American Medical Women’s Association (AMWA)
2018-present	Student Academic Standing Committee (SASC)
2019 – present	President, American Medical Women’s Association (AMWA) UASOM chapter

EDITORIAL BOARD MEMBERSHIPS:

2002-2008	Laboratory Medicine - Editorial Advisory Board
2003-2012	American Journal of Clinical Pathology – Board of Editors
2004-2016	Journal of Clinical Apheresis – Associate Editor

2009-present	American Journal of Medicine - Ad Hoc reviewer
2010-present	JAMA - Ad Hoc reviewer
2010-present	Clinical Chemistry - Ad Hoc reviewer
2010-present	Transfusion - Ad Hoc reviewer
2013-present	Vox Sanguinis – Ad Hoc reviewer
2015-2016	American Journal of Clinical Pathology –Editorial Board member
2016-2018	Anesthesia & Analgesia, Executive Section Editor, Blood Management section

MAJOR RESEARCH INTERESTS:

Patient Blood Management (PBM)
 Thrombotic thrombocytopenic Purpura (TTP)
 Proper Laboratory Utilization

TEACHING EXPERIENCE:

1998-present	Blood Bank Morning Report
1998-2002	Pathology Residents' Orientation
1998-2003	Introduction to Laboratory Medicine
1999-present	Medical School Pathology Courses (2)
1999-present	Coagulation Case Studies
1999-present	Coagulation Curriculum
1999-present	Transfusion Medicine Didactic sessions
1999-2011	Dental Clinical Pathology Graduate Course (course master)
1999-present	UAB Surgery Basic Science Course
2001-2014	UASOM Scholar's Week
2003-2015	Heme/Onc Fellows' Didactic Courses
2003-2015	Pediatric Heme/Onc Fellows' Conference
2005-present	Medicine Noon Conference
2008-present	Special Topics, UASOM

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

Review of Hemostasis – Scientific session, AABB National Meeting, Orlando, FL, October 2002.
 Diagnostic Tests to Evaluate Hemostasis – Scientific session, AABB National Meeting, San Diego, CA, November 2003.
 Thrombophilia and its Treatment – Scientific sessions parts I and II. ASCLS Annual Meeting. Los Angeles, CA, July 2004.
 Workshop on Hemostasis (6 hours). Hospital de Clinicas de Porto Alegre, Porto Alegre, Brazil, June 2004.
 Transfusion Safety, International Symposium. AABB National Meeting. Baltimore, MD, October 2004.
 Photopheresis in Solid Organ Transplantation. Mexican Association of Blood Banks. Queretaro, MX, October 2004.
 Hemostasis: From Physiology to Pathology. Lee Moffit Cancer Center Pathology Grand Rounds. Tampa, FL, March 2005.

Theoretical and Practical Aspects of Photopheresis in Solid Organ Transplantation. American Society for Apheresis, Chicago, IL, April 2005.

Stepwise Approach to the Bleeding Patient. ASCP Teleconference. April 2005.

Thrombotic Microangiopathies. ASCLS National Meeting. Orlando, FL, July 2005.

Update on Oral Anticoagulants. ASCLS National Meeting. Orlando, FL, July 2005.

Stump the Stars. ASCP Annual Meeting. Seattle, WA, October 2005.

Principles of Transfusion Medicine. Carraway Methodist Medical Center Medicine Grand Rounds. Birmingham, AL, December 2005.

TRALI – University of Alabama at Birmingham – Medicine Clinico-Pathologic Conference – August 2006.

Applications of Therapeutic Apheresis - Mexican Association of Blood Banks National Meeting. Merida, MX, September 2006.

Transfusion Reactions Everyone Should Know About! - University of Alabama at Birmingham – Obstetrics and Gynecology Grand Rounds. October 2006.

Use of Fresh Frozen Plasma for Correction of the INR – University of Alabama at Birmingham – Medicine Grand Rounds. October 2006.

What is New in Therapeutic Apheresis – ASFA Annual Meeting, Nashville, TN, April 2007.

The Transfusion Medicine Physician as a Consultant in the Hospital – AABB Annual Meeting. Anaheim, CA, October 2007.

New Evidence for Therapeutic Apheresis - AABB Annual Meeting. Anaheim, CA, October 2007.

Challenging Coagulation Cases – Tri-State Pathology Meeting. New Orleans, LA, May 2008.

Why More is Less in Transfusion Therapy - Tri-State Pathology Meeting. New Orleans, LA, May 2008.

Heparin-induced Thrombocytopenia- Precision Biologic Round Table. Dartmouth, NS, Canada, June 2008.

Evidence-Based Transfusion Therapy - Saint Vincent's East Grand Rounds. Birmingham, AL, July 2008.

When and How to Use Plasma and Platelets - Baptist Montgomery Grand Rounds. Montgomery, AL, September 2008.

Bleeding Patients – Quest Symposium in Bleeding and Thrombosis. Fairfax, VA, September 2008.

Clinical Consultation Leads to Cost-Effective Management of Bleeding Patients – University of Vermont Grand Rounds. Burlington, VT, November 2008.

Evidence-Based Red Cell Transfusion – Alabama Academy of Family Physicians Mid-Winter Meeting. Hoover, AL, December 2008.

Hospital-and Blood Provider-Driven Blood Management: A Unique and Creative Joint Venture - AABB Audio Conference, Birmingham, AL, December 2008.

Laboratory Evaluation of Coagulopathies – Cook Children's Hospital Grand Rounds. Fort Worth, TX, February 2009.

Perinatal Transfusions – University of Alabama at Birmingham – Perinatal Grand Rounds. Birmingham, AL, April 2009.

Photopheresis – ASFA Annual Meeting Clinical Rounds. San Diego, CA, May 2009.

What We Know and Don't Know About ECP in 2009 - ILABB Fall Meeting. Lisle, IL, September, 2009

Apheresis Support for Transplant Patients – AABB Annual Meeting. New Orleans, LA, October 2009.

Will My Bleeding Patient Benefit from a Transfusion? – AABB Annual Meeting. New Orleans, LA, October 2009.

How a Large Academic Medical Center Decreased its Dependency on Imported Blood - AABB Annual Meeting. New Orleans, LA, October 2009.

Von Willebrand Disease – The Greater New Orleans Coagulation Conference. New Orleans, LA, February, 2010.

What is My Role as a Clinical Pathologist in the Evaluation of Patients with Bleeding or Thrombosis? - Columbia University Department of Pathology. New York, NY, February 2010.

How Multidisciplinary Collaboration Led to a Reduction in Red Blood Cell Usage by More than 25% in a Tertiary Care Hospital – Executive War College on Lab and Pathology Management. New Orleans, LA, April 2010.

Transfusion & Blood Management: Practical Advice on How to Save Blood, Save Dollars and Save Lives – The Dark Report Audio Conference, Birmingham, AL, May 2010.

Photopheresis in Solid Organ Transplantation. ASFA Annual Meeting. New Orleans, LA, May 2010.

How Do I Communicate, Document and Bill as a TM physician? AABB Annual Meeting – Baltimore, MD, October 2010.

The Pathologist as a Consultant. ASCP Annual Meeting – San Francisco, CA, October 2010.

Graft-versus-host disease (GVHD). ASFA Webinar series. February 2011.

Hospital Experience with Blood Management. American Red Cross Medical Advisory Committee. Washington, DC. May 2011

Serious Transfusion Reactions. ASCLS Annual Meeting. Atlanta, GA. July 2011

Why and How We Should Be Working on Blood Utilization in Our Hospitals. Vanderbilt University Department of Pathology Laboratory Medicine Grand Rounds. Nashville, TN, October 2011.

Apheresis in Cardiac Disorders. ASFA Annual Meeting. Atlanta, GA, April 2012.

Photopheresis. World Apheresis Association Meeting. Istanbul, Turkey, September 2012.

Managing the Complex Bleeding Patient. AABB Annual Meeting, Boston, MA, October 2012.

Apheresis 101. AIDS Clinical Trials Group Annual Meeting, Washington DC, July 2013.

Out with the Bad, In with the Good. The 6th Annual Therapeutic Apheresis Academy, Charlottesville, Virginia, September 2013.

Photopheresis. The 6th Annual Therapeutic Apheresis Academy, Charlottesville, Virginia, September 2013.

Transfusion Medicine Physician Career Development and Networking Dinner. AABB Annual Meeting, Denver, CO, October 2013.

Thrombotic Thrombocytopenic Purpura. HEMO 2013, Brasilia, Brazil, November 2013.

Isolated Prolonged PTT: What Is the Problem? ASCP Webinar. December 2013.

What is Laboratory Management? USCAP Annual Meeting. San Diego, CA, March 2014.

Is This Enough Laboratory Medicine Training in Medical School? ASCP Annual Meeting, Tampa, FL, October 2014.

Care of the Patient Undergoing Therapeutic Apheresis. HEMO 2014, Florianopolis, Brazil, November 2014.

Therapeutic Apheresis: Principles and Indications. HEMO 2014, Florianopolis, Brazil, November 2014.

Therapeutic Apheresis: State of the Art. HEMO 2014, Florianopolis, Brazil, November 2014.

Bone Marrow Necrosis in Sickle Cell Disease. HEMO 2014, Florianopolis, Brazil, November 2014.

Patient Blood Management in the United States. Keynote speaker. First Patient Blood Management Symposium. Frankfurt, Germany, March 2015.

Laboratory Medicine is a Team Sport. Play On. Klaus Mayer Lecture Award in Laboratory Medicine. Memorial Sloan Kettering Cancer Center, New York City, NY, May 2015.

Apheresis in Thrombotic Microangiopathies. Jornada Chilena de Hematologia e Medicina Transfusional. Santiago, Chile, August 2015.

Bone Marrow Necrosis and Fat Embolism Syndrome in Sickle Hemoglobinopathies. AABB Annual Meeting, Anaheim, CA, October 2015.

Apheresis in Solid Organ Transplantation. HEMO 2015. Sao Paulo, Brazil, November 2015.

Apheresis in Neurologic Diseases. HEMO 2015. Sao Paulo, Brazil, November 2015.

Extracorporeal Photopheresis. HEMO 2015. Sao Paulo, Brazil, November 2015.

Patient Blood Management. 51st ACLPS Annual Meeting. Birmingham, AL, June 2016.

Differential Diagnosis of Thrombotic Microangiopathies. AMMT (Mexican Association of Blood Banks). Leon, Mexico, September 2016

Alternatives to Transfusion – Prevention of Risks to the Patient. AMMT (Mexican Association of Blood Banks). Leon, Mexico, September 2016

Patient Blood Management Around the World – Initiatives and Opportunities. Society for the Advancement of Blood Management Annual Meeting. Grand Rapids, MI, October 2016.

Thrombotic Microangiopathies: Current Treatments and Future Directions. AABB Annual Meeting. Orlando, FL, October 2016.

Ask the Expert podcast: Open Anesthesia. November 2016.

Blood Components and Blood Derivatives. IARS Annual Meeting. Washington, DC, May 2017.

Pre-operative anemia: Detection, Evaluation, Management IARS Annual Meeting. Washington, DC, May 2017.

Teaching Initiatives to Reduce Diagnostic Errors. Academy of Clinical Scientists Annual Meeting. Birmingham, AL, May 2017.

Promoting Appropriateness of Laboratory Utilization. Pathology Grand-Rounds. Medical College of Georgia. Augusta, GA, September 2017.

Patient Blood Management in an Adult Academic Hospital. AABB Annual Meeting. San Diego, CA, October 2017.

Does Prophylactic Red Blood Cell Exchange Improve Pregnancy Outcomes in Patients with Sickle Cell Disease? AABB Annual Meeting. Boston, MA, October 2018.

Hemostatic and Metabolic Alterations in Therapeutic Apheresis. HEMO 2018. Sao Paulo, Brazil, November 2018.

What is Changing in Therapeutic Apheresis? HEMO 2018. Sao Paulo, Brazil, November 2018.

Changes in Clinical Practice that Affect the Blood Bank/Transfusion Services. ASCLS Annual Meeting, Charlotte, NC, June 2019.

What is New in the ASFA Guidelines. XVII Argentinian Congress of Transfusion Medicine. Buenos Aires, AR, September 2019.

Indications for Red Blood Cell Exchange Procedures in Sickle Cell Disease. San Antonio, TX, October 2019.

Plasma transfusion versus plasmapheresis: Indications x controversies. HEMO 2019. Rio de Janeiro, Brazil, November 2019.

Therapeutic apheresis: Current-state. HEMO 2019. Rio de Janeiro, Brazil, November 2019.

Vascular access for therapeutic apheresis. HEMO 2019. Rio de Janeiro, Brazil, November 2019.

GRANT SUPPORT: (Past and Current)

- 2001-2005 Health Services Foundation – General Endowment Fund grant for the development of the UAB Coagulation Service; Principal Investigator.
- 2009-2013 Co-investigator, RBC storage age and potentiation of transfusion-related clinicopathology in trauma patients. R01 HL95468. R. Patel, PhD (PI).
- 2011-2013 Co-investigator, Prospective, Randomized Optimal Platelet and Plasma Ratios (PROPPR). UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER (HOUSTON). J. Kerby, MD, PhD – UAB PI

BIBLIOGRAPHY:

MANUSCRIPTS PUBLISHED:

1. Basta M, Langlois P, **Marques MB**, Fries L, Frank MM. High-dose intravenous immunoglobulin modifies complement-mediated *in vivo* clearance. *Blood* 1989; 74:326-33.
2. **Marques MB**, Weller PF, Parsonnet J, Ransil BJ, Nicholson-Weller A. Phosphatidylinositol-specific phospholipase C: a possible virulence factor of *Staphylococcus aureus*. *J Clin Microbiol* 1989;27:2451-4.
3. **Marques MB**, Weller PF, Nicholson-Weller A. Growth in acidic-media increases production of phosphatidylinositol-specific phospholipase C by *Staphylococcus aureus*. *Curr Microbiol* 1992; 25:125-8.
4. **Marques MB**, Kasper DL, Pangburn MK, Wessels MR. Prevention of C3 deposition is a virulence mechanism of the type III group B *Streptococcus* capsular polysaccharide. *Infect Immun* 1992; 60:3986-93.
5. **Marques MB**, Kasper DL, Shroff A, Michon F, Jennings HJ, Wessels MR. Functional activity of antibodies to the group B polysaccharide of group B *Streptococcus* elicited by a polysaccharide-protein conjugate vaccine. *Infect Immun* 1994;62:1593-9.
6. Dale JB, Washburn RG, **Marques MB**, Wessels MR. Hyaluronate capsule and surface M Protein in resistance to opsonization of group A streptococci. *Infect Immun* 1996; 64:1495-501.
7. Jeff L, **Marques MB**, Brookings ES, Waites KB. Detection of *Kingella kingae* bacteremia and identification of the organism in the clinical laboratory: Experience from two cases. *Clin Microbiol Newsletter* 1997; 19:73-6.
8. **Marques MB**, Brookings E, Moser S, Sonke PB, Waites KB. Comparative in vitro antimicrobial susceptibilities of nosocomial isolates of *Acinetobacter baumannii* and synergistic activities of nine antimicrobial combinations. *Antimicrob Agents Chemother* 1997;41:881-5.

9. **Marques MB**, Waites KB, Mangino JE, Hines BB, Moser SA. Genotypic investigation of multidrug-resistant *Acinetobacter baumannii* infections in a medical intensive care unit. *J Hosp Infect* 1997; 37:125-35.
10. Kilby JM, **Marques MB**, Jaye DL, Tabereaux PB, Reddy VB, Waites KB. The role of bone marrow biopsy and culture versus blood culture in the evaluation of human immunodeficiency virus-infected patients for mycobacterial and fungal infections. *Am J Med* 1998; 104:123-8.
11. Pershad J, Simmons GT, Chung D, Frye T, **Marques MB**. Two pediatric abdominal catastrophes due to strangulated left paraduodenal hernias. *Pediatr Emerg Med* 1998; 14:347-9
12. **Marques MB**, Waites KB, Jaye DL, Kilby JM, and Reddy VVB. Histologic examination of bone marrow core biopsies has limited value in the diagnosis of mycobacterial and fungal infection in AIDS patients. *Ann Diag Path* 2000; 4:1-6.
13. Chandler D, Prchal J, **Marques MB**. A patient with rare prothrombin deficiency. *Clin Hemost Rev* 2000;14:7.
14. **Marques MB**, Carr KD, Brumfield CG, Huang ST. A pregnant patient with sickle cell disease and cefotetan-induced immune hemolysis. *Lab Med* 2000; 31:541-3.
15. **Marques MB**, McDonald JM. Defining/measuring the value of clinical information. *Clin Lead Manag Rev* 2000; 14:275-9.
16. **Marques MB**, Triplett DA. When to suspect hypercoagulability and how to investigate it. *Ann Diag Path* 2001; 5:177-83.
17. **Marques MB**, Huang ST. Patients with thrombotic thrombocytopenic purpura commonly develop metabolic alkalosis during therapeutic plasma exchange. *J Clin Apher* 2001; 16:120-4.
18. **Marques MB**. Testing for genetic predisposition to venous thrombosis. *Med Lab Obser* 2002; 34:8-13.
19. Gruszecki A, Wehrli G, Ragland B, Reddy VB, Nabell L, Garcia-Hernandez A, **Marques MB**. Management of a patient with HIV infection and thrombotic thrombocytopenic purpura-induced anemia and thrombocytopenia. *Am J Hematol* 2002; 69:228-31.
20. Khuu HM, Desmond R, Huang ST, **Marques MB**. Characterization of photopheresis in the management of heart and lung transplant rejection. *J Clin Apher* 2002; 17:27-32.
21. Fritsma G, **Marques MB**. Hemostasis in the core laboratory. *Adv Med Lab Profes* 2002;14:13-17.
22. Ragland B, Reed C, Eiland B, Hudson C, Tichenor P, Fritsma GA, Adler BK, **Marques MB**. Lupus anticoagulant interference on the activated protein C resistance assay. *Am J Clin Path* 2003; 119:66-71.
23. **Marques MB**. Treatment of single factor deficiencies: A case-study approach. *Clin Lab Scien* 2003; 16:120-2.
24. Adams A, Audeh Y, de Luna R, Baker M, **Marques MB**. Laboratory testing for coagulation inhibitors. *Lab Med* 2003;8:584-8.
25. de Luna R, Colley, BJ III, Smith K, Divers S, Rinehart J, **Marques MB**. Scurvy: An often forgotten cause of bleeding. *Am J Hematol* 2003; 73:85-7.

26. Mayfield CM, **Marques MB**. Von Willebrand factor-cleaving protease in thrombotic thrombocytopenic purpura. *Med Lab Obs* 2003; 35:10-6.
27. Robert F, Busby E, **Marques MB**, Reynolds RE, Carey DE. Phase II study of docetaxel plus enoxaparin in previously untreated patients with advanced or metastatic non-small cell lung cancer. *Lung Cancer* 2003; 42:237-45.
28. Fritsma G, **Marques MB**. Hemostasis in the core laboratory presents complex challenges but productive solutions. *Adv Admin Lab* 2003; 12:38-45
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13. Kankirawatana S, Huang ST, **Marques MB**. Experience with therapeutic plasma exchange at academic center, 1999-2003. ASFA Annual Meeting, 2005.
14. Knight CS, Vaphiades MS, **Marques MB**, Lakey MA, Boctor FN. Case Report: Autoimmune retinopathy treated with plasmapheresis. ASFA Annual Meeting, 2005.
15. Park YA, **Marques MB**, Boctor FN. Devic's neuromyelitis optica and clinical response to therapeutic plasmapheresis. ASFA Annual Meeting, 2006.
16. Reardon J, Yang Z, Tuncer HH, **Marques, MB**. Seasonal variation of TTP-HUS at a tertiary referral center: 1997-2005. ASFA Annual Meeting, 2006.
17. Huang ST, Huang Z, **Marques MB**. Absence of alloimmunization to D antigen in Rh-negative organ transplant patients receiving Rh-positive red blood cells and/or apheresis platelets. AABB Annual Meeting, 2007.
18. Cherry III SA, McKenzie MD, Arndt D, **Marques, MB**. Therapeutic plasma exchange prior to re-exposure to heparin in a patient with acute heparin-induced thrombocytopenia. AABB Annual Meeting, 2007.
19. Li S, Huang ST, **Marques MB**. Thrombotic thrombocytopenic purpura following hepatitis B vaccination. AABB Annual Meeting, 2007.
20. Dailey V, **Marques MB**, Cherry III SA. Stock platelets may provide appropriate platelet increment for patients with neonatal alloimmune thrombocytopenia. AABB Annual Meeting, 2008.
21. Lima J, **Marques MB**, Reddy V, Troughton M. Identification of anemia prior to elective cardiovascular surgery, an opportunity to reduce transfusion risk? AABB Annual Meeting, Montreal, 2008.
22. Nunez A, Gorman E, **Marques MB**, Huang ST, Troughton M. Procedure complications occurring during plasma exchange for cryoglobulinemia. ASFA Annual Meeting, 2009.

23. Downie B, Rossman J, **Marques MB**. Development of acquired factor V inhibitor after plasma exchange in a patient with congenital factor V deficiency: A case report. AABB Annual Meeting, 2009.
24. Lima J, Ren Z, McGiffin D, Nguyen T, Wille K, **Marques MB**. Successful pulmonary thromboendarterectomy in a patient with sickle cell disease treated with a single pre-operative RBC exchange. ASFA Annual Meeting, 2010.
25. Huang S, Huang Z, **Marques MB**. ABO antibody titers of solid organ transplant recipients remain low weeks after therapeutic plasma exchange. ASFA Annual Meeting, 2010.
26. Tichenor PH, Taylor LJ, Marques MB. Why and How Laboratory Professionals can avoid misdiagnosis of thrombophilia in protein C and protein S testing. ASCP Annual Meeting, 2011.
27. Oliver JC, Griffin RL, **Marques MB**. Can we predict the need for PRBC transfusions based on current utilization? AABB Annual Meeting, 2012.
28. Oliver JC, Griffin RL, **Marques MB**. The success of blood management programs depends on an institution-wide change in transfusion practices. AABB Annual Meeting, 2012.
29. McCleskey B, Scott J, Adamski J, Vetter T, **Marques MB**. In search of demographic and laboratory characteristics associated with increased risk of exacerbation and relapse in idiopathic thrombotic thrombocytopenic purpura. ASFA Annual Meeting, 2013.
30. Herring S, Gibbs MA, Adamski J, **Marques MB**. Impact of outpatient red cell exchange in an institution patient blood management program (PBM). AABB Annual Meeting, 2013.
31. Hill B, Hanna CA, Adamski J, **Marques MB**. Ficin-treated cells in ID-MTS gel test identify clinically significant antibodies which may mimic non-specific reactivity. AABB Annual Meeting, 2013.
32. Dasararaju R, Hanna CA, **Marques MB**, Adamski J. Decreased awareness and delayed treatment of patients with hemoglobinopathy and bone marrow necrosis can be fatal. AABB Annual Meeting, 2013.
33. Hill B, Williams LA, **Marques M**, Moon, P. Frequency of unexpected complications in a high-volume apheresis service. ASFA Annual Meeting, 2014.
34. Tracht JM, Mann SA, Williams LA, **Marques MB**. Does total plasma exchange for thrombotic microangiopathies affect overall plasma usage in the setting of patient blood management? ASFA Annual Meeting, 2014.
35. Mann SA, McCleskey B, **Marques MB**, Adamski J. A single center therapeutic apheresis registry: capturing 10 years of apheresis data. ASFA Annual Meeting, 2014.
36. Dasararaju R, Mann S, **Marques M**, Williams L. Seasonal variations in myasthenia gravis patients requiring therapeutic plasma exchange. ASFA Annual Meeting, 2014.
37. Ping Z, Brooks, KA, **Marques MB**, Williams III LA, Pham HP. Using normal saline as part of replacement fluid in therapeutic plasma exchange procedures – A pilot study. ASFA Annual Meeting, 2015.
38. Mann S A, Pham H P, Williams III L A, **Marques MB**. Diagnostic blood loss in myasthenia gravis inpatients receiving therapeutic plasma exchange contributes to hospital-acquired anemia. ASFA Annual Meeting, 2015.

39. Pagano MB, Mann SA, Schlueter AJ, Cataife G, Pham HP, Hofmann JC, King KE, Delaney M, **Marques MB**, Cooling LL, Wu Y, Wong E, Winters JL. Use of hydroxyethyl starch in leukocytapheresis procedures does not increase renal toxicity. ASFA Annual Meeting, 2015.
40. Gibson B, Pham HP, **Marques MB**, Williams III LA. Therapeutic plasma exchange (TPE) for intractable pruritus secondary to primary sclerosing cholangitis (PSC). ASFA Annual Meeting, 2015.
41. Siniard R, Burczyk-Brown JJ, Godby K, Erba H, Marques MB. Downward Platelet Utilization Trends in Acute Leukemia. ACLPS Annual Meeting, 2016.
42. Siniard RC, Paiste J, **Marques MB**. Opportunities to Decrease the CT Ratio beyond the MSBOS. AABB Annual Meeting, 2016.
43. Simmons SC, Staley EM, Dorn D, Nails A, **Marques MB**, Williams III LA, Pham HP. Therapeutic Plasma Exchange for Hashimoto Encephalopathy. ASFA Annual Meeting, 2017.

ORAL PRESENTATIONS

Scientific Papers Presented at National and International Meetings

1. **Marques MB**, Wessels MR, Jennings HJ, Kasper DL. Capsular sialic acid inhibits alternative pathway opsonization by cell wall polysaccharide antibodies. 30th Annual Meeting of the Infectious Diseases Society of America, 1992.
2. **Marques MB**, Jaye D, Kilby JM, Waites KB, Reddy VB. Utility of bone marrow examination versus blood culture for detection of mycobacterial and fungal infections in HIV-positive patients. ACLPS Meeting, 1996.
3. **Marques MB**, Moon PM, Huang ST. Metabolic changes associated with therapeutic plasmapheresis. ASFA Annual Meeting, 1999.
4. Huang ST, **Marques MB**, Moon PM, Hulse D. Photopheresis in child with low blood volume. ASFA Annual Meeting, 1999.
5. **Marques MB**. Utilization of coagulation tests and factors in a university hospital. ACLPS National Meeting, 2000.
6. **Marques MB**. Case Studies in Hypercoagulability. Hematology Grand-Rounds, Porto Alegre, RS, Brazil, 2002.
7. **Marques MB**, Fritsma GA, Adler BK. Impact of Clinical Pathology intervention in coagulation factor replacement. ACLPS National Meeting, 2002.
8. A. Baker, S. Huang, S. McAllister, **Marques MB**. Rituximab: An emerging therapy for relapsing or refractory thrombotic thrombocytopenic purpura. AABB Annual Meeting, 2003.
9. Tuncer HH, **Marques MB**, Huang ST. Experience with Vortex ports in establishing vascular access for photopheresis. ASFA Annual Meeting, 2004.
10. Tuncer HH, **Marques MB**, Harrison KD, Huang ST. In vitro comparison of access flow rates among permanent subcutaneous port catheters of different diameters. ASFA Annual Meeting, 2004.

11. Mayfield CA, Fritsma GA, Allison J, **Marques MB**. Thrombosis risk test utilization in an academic center. ACLPS National Meeting, 2004.
12. Rauch TM, **Marques MB**. Superwarfarin poisoning should be considered in patients with vitamin K deficiency unresponsive to therapy. ACLPS National Meeting, 2004.
13. Kim B, Tichenor P, Taylor L, Hudson C, **Marques M**. Unsuspected enoxaparin-treated patients may have false positive lupus anticoagulant results. ACLPS National Meeting, 2005.
14. Oetama B, **Marques MB**. In vitro strength of lupus anticoagulants do not correlate with clinical manifestations. ACLPS National Meeting, 2005.
15. Szczepiorkowski ZM, Bandarenko N, Kim HC, Linenberger ML, Maes L, **Marques MB**, et al. A new approach to assign ASFA categories for therapeutic apheresis indications. ASFA Annual Meeting, 2006.
16. Yang Z, de Mattos AM, Boctor FN, Huang ST, **Marques MB**. Effect of plasmapheresis on proteinuria and graft survival in focal segmental glomerulosclerosis post renal transplantation. ASFA Annual Meeting, 2006.
17. Park YA, Tatum, CH, Reardon JE, Alexander CB, Ho KJ, **Marques MB**. Not all microangiopathic hemolytic anemias are thrombotic thrombocytopenic purpura: A clinicopathologic correlation. ACLPS National Meeting, 2006.
18. Burford HN, Tichenor P, Reardon JE, Reddy VVB, McDaniel SA, **Marques MB**. Prolonged partial thromboplastin times without bleeding in two patients with metastatic melanoma and diffuse melanosis cutis. ACLPS National Meeting, 2006.
19. Alexander KA, **Marques MB**. Incidence of TRALI during therapeutic plasma exchange for thrombotic microangiopathies. ASFA Annual Meeting, 2007.
20. Park YA, Lakey MA, **Marques MB**. Exacerbations of thrombotic thrombocytopenic purpura-hemolytic uremic syndrome predict an infection. ASFA Annual Meeting, 2007.
21. Sanders RD, Carroll SH, Jones TA, Arndt D, Dlott JS, **Marques MB**. Is the new IgG enzyme-immunoassay for HIT a solution for our diagnostic dilemma? ACLPS National Meeting, 2008.
22. Huang S, Huang Z, Jones CR, **Marques MB**, Selection of low titer anti-A and anti-B apheresis platelets by a rapid method for ABO incompatible platelet transfusion. AABB Annual Meeting, 2008.
23. Alexander K, **Marques MB**. Thrombotic events in the setting of activated recombinant clotting factor VII use. ASCP Meeting, 2008.
24. Lima J, **Marques MB**. Rituximab does not prevent TTP relapses. ASFA Annual Meeting, 2009.
25. Sanders RD, Tichenor P, Henderson J, **Marques MB**. Chronic viral disease and acquired hemophilia: An association with prognostic significance? ACLPS Annual Meeting, 2009.
26. Huang S, Huang Z, **Marques MB**. ABO antibody titers of solid organ transplant recipients remain low weeks after therapeutic plasma exchange. ASFA Annual Meeting, 2010.
27. Deal TM, Kremer-Hovinga J, George JN, **Marques MB**, Adamski J. Novel ADAMTS-13 Mutations in an Obstetric Patient with Upshaw-Schulman Syndrome. ASFA Annual Meeting, 2011.

28. Halverson CB, Vanlandingham SC, **Marques MB**, Adamski J. Evaluation of Fibrinogen Levels in Patients with Acute Cardiac Transplant Rejection who Receive Daily Therapeutic Plasma Exchange. ASFA Annual Meeting, 2011.
29. Brazelton JD, Scott J, Adamski J, **Marques MB**. Are elevated cardiac markers associated with increased mortality in patients with thrombotic thrombocytopenia purpura? ASFA Annual Meeting Plenary Session, 2012.
30. Zhou Y, Reddy VB, Reilly SD, Litovsky SH, **Marques MB**. Gastrointestinal ischemia as the initial presentation of thrombotic thrombocytopenic purpura. ACLPS Annual Meeting, 2013 (Yaolin Zhao received a Young Investigator Award).
31. Gibson B, Mann SA, Williams L, **Marques MB**. Single-center evaluation of changes in indications of apheresis procedures performed in response to publication of updated guidelines for the use of therapeutic apheresis. ASFA Annual Meeting, 2014.
32. Harrison GP, Mullen M, Vetter TR, Turman T, Tichenor P, Taylor L, **Marques MB**. Clinical Pathology Intervention Improves Rate of Heparin Anticoagulation. ACLPS Annual Meeting, 2014 (Grant Harrison received a Young Investigator Award).
33. Ping Z, Williams III LA, Pham HP, Taylor L, **Marques MB**. Evaluation of aspirin resistance in LVAD patients using whole blood platelet aggregometry. ACLPS Annual Meeting, 2015.
34. Graham T, Peavey DB, Gray T, **Marques MB**. The Feasibility and Implications of Limiting Red Blood Cell Transfusions to Units Less Than 35 Days Old. ACLPS Annual Meeting, 2016.
35. Saylor B, Arndt D, **Marques MB**. Testing for Platelet Antibody Does Not Predict Results of Platelet Crossmatching in Platelet-Refractory Patients. ACLPS Annual Meeting, 2016.
36. Duncan V, Williams LA 3rd, **Marques MB**. Usage Pattern of 4-Factor Prothrombin Complex Concentrate in a Tertiary Care Center. ACLPS Annual Meeting, 2016.

Invited Lectures at Local and Regional Courses and Meetings

1. Use of flow cytometry in the investigation of hematologic malignancies. Presented at the Annual Meeting of the Alabama State Society of Clinical Laboratory Scientists, April 1999, Birmingham, AL.
2. Use of FFP and factor concentrates. Presented at the Alabama State Association of Blood Banks, September 2000, Birmingham, AL.
3. When to suspect and how to workup hypercoagulability. Presented at the Fourth Annual Update in Diagnostic Pathology, November 2000, Pine Mountain, GA.
4. When to suspect and how to workup hypercoagulability. Presented at the Brookwood Hospital Medicine Grand Rounds, November 2000, Birmingham, AL.
5. The role of clinical information in coagulation testing. Presented at the Alabama State Society for Clinical Laboratory Sciences, November 2000, Birmingham, AL.
6. What is the role of coagulation testing in stroke care? Presented at the Stroke Center Retreat, UAB, December 2000, Birmingham, AL.
7. Von Willebrand disease. Presented at the Brookwood Hospital Medicine Grand Rounds, April 2001, Birmingham, AL.

8. Heparin-induced thrombocytopenia. Presented at the Carraway Education and Research Day, May 2001, Birmingham, AL.
9. How to set up and “profit” from a coagulation service. Presented at the Tristate Pathology Meeting, May 2001, Perdido Beach, AL.
10. Monitoring anticoagulation therapy. Presented at the Second Birmingham Fall Hemostasis Symposium, October 2002, Birmingham, AL.
11. Transfusion Safety. Presented at the Alabama State Society for Clinical Laboratory Science, May 2005, Birmingham, AL.
12. Thrombotic Microangiopathies: Which one is which? Presented at the Alabama State Society for Clinical Laboratory Science, April 2006, Birmingham, AL.
13. Transfusion Triggers – Alabama State Association of Blood Banks Fall Meeting – November 2007, Birmingham, AL.
14. Pancytopenia. UAB Health System Montgomery: Internal Medicine Teaching Rounds - October 2010, Montgomery, AL.
15. Thrombocytopenia: Causes and Implications. UAB Health System Montgomery: Internal Medicine Grand Rounds, October 2010, Montgomery, AL.
16. Practical Aspects of Apheresis. ASFA Regional Meeting, March 2011, Birmingham, AL.
17. Opening Keynote: Reducing Diagnostic Errors. ASCLS Region III 2016 Triennial Meeting. November, 2016, Birmingham, AL.
18. Patient Blood Management. ASCLS Region III 2016 Triennial Meeting. November, 2016, Birmingham, AL.
19. Therapeutic Plasma Exchange – Fall ILABB meeting, October, 2017, Chicago, IL.
20. How to be a servant leader for our patients. Opening Keynote Speaker for CLS lab management meeting, November, 2017, Birmingham, AL.

MISCELLANEOUS

Web Site Development (no longer in charge)

<https://www.uab.edu/medicine/coag/>

Apps developed in collaboration with the CDC

PTT advisor - <https://itunes.apple.com/us/app/ptt-advisor/id537989131?mt=8>

Anticoagulation Manager - <https://itunes.apple.com/us/app/anticoagulation-manager/id1349838916?mt=8>