

HARVARD MEDICAL SCHOOL

*CURRICULUM VITAE*

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**Name:** RICHARD MAX KAUFMAN

**Office Address:** Department of Pathology  
Blood Bank – Amory 260  
Brigham and Women’s Hospital  
Boston, MA 02115 United States

**Work Phone:** (617) 732-5232

**Work Email:** rmkaufman@partners.org

**Work Fax:** (617) 277-9013

**Education**

1988	BS <i>Magna cum laude</i>	Zoology	Duke University
1992	MD	Medicine	Washington University School of Medicine

**Postdoctoral Training**

1992-1993	Intern	Internal Medicine	Barnes Hospital
1993-1994	Research Fellow	Pathology	Washington University School of Medicine
1994-2000	Resident	Laboratory Medicine	Barnes-Jewish Hospital
2000-2001	Fellow	Transfusion Medicine	Barnes-Jewish Hospital

**Faculty Academic Appointments**

2001-2004	Instructor	Pathology	Harvard Medical School
2004-2016	Assistant Professor	Pathology	Harvard Medical School
2016-	Associate Professor	Pathology	Harvard Medical School

### **Appointments at Hospital/Affiliated Institution**

2001-	Staff Physician	Laboratory Medicine	Brigham and Women's Hospital
2001-	Staff Physician	Pathology	Dana-Farber Cancer Institute
2002-	Consultant Staff	Laboratory Medicine	Boston Children's Hospital

### **Major Administrative Leadership Positions**

2001-2002	Associate Medical Director	Adult Transfusion Service	BWH
2001-2012	Medical Director	Kraft Family Blood Donor Center	DFCI
2002-	Medical Director	Blood Bank and Transfusion Service	BWH/DFCI
2004-	Director	Harvard Medical School Fellowship Program in Transfusion Medicine	BWH
2017-	Medical Director	Kraft Family Blood Donor Center	DFCI

### **Committee Service**

#### **Local**

2001-2002	Transfusion Committee	BWH
2001-2002		Member
2002-2003	Clinical Laboratories Coordinating Committee	BWH
2002-2003		Member
2002-	Quality Assurance/Risk Management Committee	BWH
2002-		Member
2002-2005	Transfusion Committee	BWH
2002-2005		Chair
2003-2004	FACT Steering Committee	DFCI
2003-2004		Member
2003-2005	Steering Committee for Transfusion Medicine	DFCI
2003-2005		Member
2004	BWH Utilization Management Committee	BWH
2004		Member
2005	Pathology Faculty Search Committee	DFCI
2005		Member
2005-2010	Mediware Steering Committee	BWH
2005-2010		Member

2005- 2005-	Biological Therapies Committee	BWH/DFCI Chair
2006 2006	Pathology Faculty Search Committee	BIDMC Member
2006- 2006-	HSCT QI Steering Committee	DFCI Member
2006- 2006-	Pathology Compliance Committee	BWH Member
2007 2007	Patient Flow – Adult Sub-Steering Committee	DFCI Member
2007 2007	Harvard Blood Scholars Curriculum Committee	BCH Member
2008 2008	Blood Product Utilization Task Force	BWH Member
2008 2008	Education Committee	BWH Member
2009 2009	Embryo Storage Task Force	BWH Member
2009- 2009-	Medical Staff Executive Committee	DFCI Member
2009- 2009-	Joint Commission Readiness Leadership Committee	BWH Member
2009-2015 2009-15	Pathology Residency Recruitment and Selection Committee	BWH Member
2011- 2011-	<i>In Vitro</i> Fertilization Quality Assurance Committee	BWH Chair
2012 2012	Tissue Typing Laboratory Process Improvement Committee	BWH Chair
2012- 2012-	Pathology Clinical Operations Committee	BWH Member

2013-2015	Partners ePathology Blood Bank Subcommittee 2013-15	PHS Chair
2013-2015	Partners ePathology Pathologist Advisory Group 2013-15	PHS Member
2014-2015	Partners ePathology Steering Committee 2014-15	PHS Member
2014-2016	Pathology Faculty Search Committee 2014-16	BWH Member
2014-	Partners Pharmacy & Therapeutics Committee – Hematology Subcommittee 2014-	PHS Member
2015-	Pathology Clinical Operations Working Group 2015-	BWH Member
2015-	Laboratory Information Systems Oversight Committee 2015-	BWH Member
2015-	Partners ePathology (PeP) Advisory Council (PAC) 2015-	PHS Member
2015-2016	Blood Bank Council 2015-	PHS Member
2016-	Pathology Fellowship Education Committee 2016-	BWH Member
2016-	Pathology Residency Education Committee 2016-	BWH Member

**National and International Committee Service**

2008	Efficient Blood Management Benchmarking Project Steering Committee Meeting	University HealthSystem Consortium Member
2009	Platelet Products Subcommittee, State of the Science Symposium	NIH/NHLBI Member

2014-2015	Transfusion Medicine Subcommittee	International Society on Thrombosis and Haemostasis Member
2014-2015	Platelet Subcommittee, State of the Science Symposium	NIH/NHLBI Member

**Professional Societies**

2000-2008-	AABB (formerly, American Association of Blood Banks) Member, Transfusion Medicine and Blood Banking Fellowship Program Directors Subcommittee
2011-2015	Member, Clinical Transfusion Medicine Committee
2012-2014	Chair, Clinical Transfusion Medicine Committee Platelet Guidelines Development Group
2015	Member, Working Group, Babesia and Other Tick-borne Diseases,
2015	Member, Planning Committee, Symposium on Implementation of Pathogen-Reduced Blood Components
2015-	Member, Karl Landsteiner Memorial Award and Lectureship Selection Committee
2015-2017	At-Large Director, AABB Board of Directors
2016	Member, Working Group, Work Product Policy
2016	Chair, Zika Virus Policy Working Group
2016-2017	Member, Finance Committee
2002-	American Society of Hematology (ASH)
2017-	Member, Scientific Committee on Transfusion Medicine
2008-	Biomedical Excellence for Safer Transfusion (BEST) Collaborative
2014-	International Society for Blood Transfusion (ISBT)
2017-	International Collaboration for Transfusion Medicine Guidelines (ICTMG)
2018-	Member, Editorial Committee

**Grant Review Activities (*Ad hoc* member)**

2005-	Research and Development Panel	Canadian Blood Services
2012	Scientific Advisory Council	Landsteiner Foundation (Netherlands)

**Editorial Activities**

***Ad hoc* Reviewer**

- American Journal of Hematology
- Blood
- Circulation
- Haematologica
- Hematology
- Immunohaematology
- Journal of the American College of Surgeons

Journal of Clinical Epidemiology  
 Lab Medicine  
 Lancet Haematology  
 New England Journal of Medicine  
 Transfusion  
 Transfusion and Apheresis Science  
 Transfusion Medicine  
 Transfusion Medicine Reviews  
 Vox Sanguinis

**Other Editorial Roles**

2005-13	Editorial Board Member	Transfusion
2006-	Editorial Board Member	American Journal of Hematology
2012-2017	Editorial Board Member	Transfusion Medicine Reviews
2013-2018	Associate Editor	Transfusion
2018-	Editor-in-Chief	Transfusion

Responsible for content and direction of the journal.

**Honors and Prizes**

1987	<i>Phi Beta Kappa</i>	Duke University
2008	Excellence in Tutoring Award	Harvard Medical School
2009	Excellence in Tutoring Award	Harvard Medical School
2010	Excellence in Tutoring Award	Harvard Medical School

**Report of Funded and Unfunded Projects**

**Funding Information**

**Past**

2002-2005	Improving Transfusion Practices Using Decision Support NHLBI/ HL01011 Co-investigator The major goal of the study was to evaluate the effectiveness of electronic decision support in reducing inappropriate transfusions.
2002-2013	Transfusion Medicine/Hemostasis Clinical Trials Network NHLBI/ U01HL72291 Site PI (\$564,101) The major goal of the network was to develop and conduct Phase III trials in Transfusion Medicine/Hemostasis. I was a member of the Platelet Dose (PLADO) trial writing group and led the writing group examining transfusion-related adverse events in the PLADO study.

- 2011-2014 Hospital Investigation of Serologic Testing and Results (HI-STAR)  
Individual research project/ Immucor, Inc.  
Site PI (\$25,075)  
The major goal of the study was to understand resource utilization associated with evaluating patients with red cell antibodies.
- 2015-2016 DARA-DTT Study  
Individual research project/ Janssen, Inc.  
PI (\$39,250)  
The major goal of the study is to perform a multicenter international validation of a DTT-based assay designed to negate the daratumumab interference with blood compatibility testing.

### **Current**

- 2013- Evaluating the frequency of TRALI after plasma, platelet and red blood cell administration in the inpatient setting: Phase A  
HHS/ HHSF2232009100061  
Co-investigator  
The major goal of the study is to develop a Common Data Model for identifying cases of transfusion-related acute lung injury (TRALI) from hospital databases.

### **Current Unfunded Projects**

- 2015- PI/ Thrombocytopenia and Procedures (TAP Study)  
The major goal of this study is to obtain observational data that will help establish safe minimum platelet counts for performing various invasive procedures.
- 2017- PI/ Testing the Utility of collecting Blood samples Electronically (TUBE Study)  
The major goal of this study is to determine the impact on patient safety of collecting blood bank samples electronically e.g. using bar code scanning versus using manual patient identification.

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses**

2004-2005	Hematology 2 <sup>nd</sup> -year Medical Students	Harvard Medical School 1 hour per week for 3 weeks
2004-2016	Hematology 2 <sup>nd</sup> -year Medical Students	Harvard Medical School 2.5-4 hours per week for 3 weeks
2008-2015	Hematology 2 <sup>nd</sup> -year Medical Students	Harvard Medical School 1-hour lecture

2014	Hematology 1 <sup>st</sup> -year Medical Students	Harvard Medical School 1-hour lecture
2015	Immunology, Microbiology and Pathology 1 <sup>st</sup> -year Medical Students	Harvard Medical School 2-hour laboratory session
2016	Hematology 1 <sup>st</sup> -year Medical Students	Harvard Medical School 1-hour lecture

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

2002-	Blood Product Support Hematology Fellows	DFCI 1-hour lecture
2003	Transfusion Support for BMT Hematology Fellows	BCH 1-hour lecture
2003	Nucleic Acid Testing Pathology Residents	BWH 1-hour lecture
2003	Blood Component Therapy Medicine Residents	BWH 1-hour lecture
2004	Platelet Transfusion Therapy Pathology Residents	BWH 1-hour lecture
2004	Transfusion Medicine Medicine residents	BWH 1-hour lecture
2005	Antibody Titrations in Pregnancy Obstetrics and Gynecology Residents	BWH 1-hour lecture
2006	Recombinant Factor VIIa Pathology Residents	BWH 1-hour lecture
2006	Transfusion Reactions Medicine Residents	BWH 1-hour lecture
2006	Transfusion Medicine/Hemostasis Clinical Trials Network Hematology Fellows	BWH 1-hour lecture
2006	Platelet Transfusion—Current Issues Pathology Residents	BWH 1-hour lecture

2006	Platelet Transfusion—Current Issues Medicine Residents	BWH 1-hour lecture
2007	Platelet Transfusion—Current Issues Pathology Residents	BWH 1-hour lecture
2007	Rapid Testing for Detecting Bacterial Contamination of Platelet Units Pathology Residents	BWH 1-hour lecture
2007	Transfusion Medicine Review Hematology Fellows	DFCI 1-hour lecture
2007	Blood Products: Indications and Complications Medicine Residents	BWH 1-hour lecture
2008	Blood Components: Indications and Risks Medicine Residents	BWH 1-hour lecture
2009	On Thin Ice: The Evidence Base for Fresh Frozen Plasma Transfusion Pathology Residents	BWH 1-hour lecture
2009	Blood Components: Indications and Risks Medicine Residents	BWH 1-hour lecture
2009	Introduction to Transfusion Medicine Hematology Fellows	BCH 1-hour lecture
2010	Blood Components: Indications and Risks Medicine Residents	BWH 1-hour lecture
2010-12	Introduction to Therapeutic Apheresis Pathology Residents	BWH 1-hour lecture
2010-	Massive Transfusion Pathology Residents	BWH 1-hour lecture, 4 per year
2010-	Massive Transfusion Anesthesiology Residents	BWH 1-hour lecture, 12 per year
2012	Blood Banking and Transfusion Medicine Medicine Residents	BWH 1-hour lecture

2012-	Coagulation Factors Pathology Residents	BWH 1-hour lecture, 4 per year
2012-	Coagulation Factors Anesthesiology Residents	BWH 1-hour lecture, 12 per year
2017	Transfusion Reactions Maternal-Fetal Medicine Fellows	BWH 1-hour lecture

### **Clinical Supervisory and Training Responsibilities**

2001-	Attending, Joint Program in Transfusion Medicine	BWH, BCH, DFCI	14 weeks per year
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### **Formal Teaching of Peers**

2012	My Patient is Bleeding: Now What? BWH 49 <sup>th</sup> Annual Update in Obstetrics and Gynecology,	45-min lecture Boston, MA
2013	Immune Hemolytic Anemia The Brigham Hematology Board Review Course	45-min recorded lecture Boston, MA
2016	Immune Hemolytic Anemia The Brigham Hematology Board Review Course	45-min recorded lecture Boston, MA

### **Local Invited Presentations**

(No presentations below were sponsored by an outside entity.)

2007	Transfusion Support in Obstetrical Emergencies/ Grand Rounds Department of Obstetrics and Gynecology, BWH
2008	Transfusion Medicine Essentials/ Grand Rounds Department of Anesthesiology, BWH
2008	Management of the Coagulopathic Critically Ill Patient/ Grand Rounds Department of Anesthesiology, BWH
2010	The First Casualty of War is Truth: Recent Studies on Massive Transfusion/ Invited Lecture Division of Hematology, BWH

- 2011            The First Casualty of War is Truth: Recent Studies on Massive Transfusion/ Invited Lecture  
Department of Pathology, BWH
  
- 2014            Massive Transfusion Update/ Invited Lecture  
Department of Anesthesia, BWH
  
- 2014            Truth or Daratumumab? New Cancer Drug, New Blood Bank Conundrum/ Invited Lecture  
Department of Pathology, BWH
  
- 2017            Resolving the Daratumumab Interference with Blood Compatibility Testing/  
Grand Rounds  
Division of Hematology, BWH
  
- 2017            Truth or daratumumab? New drug, new blood bank conundrum/ Grand Rounds  
Department of Pathology, Massachusetts General Hospital
  
- 2018            Reducing blood bank sample errors using electronic patient identification/ Invited Lecture  
Division of Clinical Pathology, Brigham and Women's Hospital

**Report of Regional, National, and International Invited Teaching and Presentations**

**Regional**

(No presentations below were sponsored by an outside entity.)

- 2008            On Thin Ice: The Evidence Base for Fresh Frozen Plasma Transfusion/ Grand Rounds  
Department of Medicine, Caritas Norwood Hospital, Norwood, MA
  
- 2015            Truth or Daratumumab? New Drug, New Blood Bank Conundrum/ Invited Lecture  
MABB Annual Spring Seminar, Westford, MA
  
- 2015            Developing the AABB Platelet Transfusion Guidelines/ Grand Rounds  
Department of Medicine, UMass Medical School, Worcester, MA
  
- 2015            Biovigilance and Hemotherapy Safety Initiatives/ Grand Rounds  
Lowell General Hospital, Lowell, MA
  
- 2016            Truth or Daratumumab? New Drug, New Blood Bank Conundrum/ Invited Lecture  
American Red Cross Medical Advisory Committee Meeting, Dedham, MA
  
- 2017            Truth or Daratumumab? New Drug, New Blood Bank Conundrum/ Invited Lecture  
American Red Cross 2017 Transfusion Medicine Conference, Marborough, MA

2017 Blood Product Transfusion/ Invited Lecture  
Brigham and Women's Outreach Program—Indian Health Service, Videoconference

**National**

(No presentations below were sponsored by an outside entity.)

2004 New Developments in Platelet Transfusion Therapy/ Invited Lecture  
New York Academy of Medicine, New York, NY

2006 Platelets: Testing, Dosing and the Storage Lesion: Recent Advances/ Invited Lecture  
ASH Annual Meeting, Orlando, FL

2008 Platelets: Testing, Dosing and the Storage Lesion/ Invited Lecture  
Tennessee Association of Blood Banks, Nashville, TN

2009 On Thin Ice: The Evidence Base for Fresh Frozen Plasma Transfusion/ Invited Lecture  
Montefiore Medical Center, Bronx, NY

2014 Hemostatic Agents in Postpartum Hemorrhage/ Invited Lecture  
AABB Annual Meeting, Philadelphia, PA

2014 Developing the AABB Platelet Transfusion Guidelines/ Invited Lecture  
Department of Pathology, Stanford University, Stanford, CA

2015 Truth or Daratumumab? New Drug, New Blood Bank Conundrum/ Grand Rounds  
Department of Pathology, Johns Hopkins University, Baltimore, MD

2015 Implementation: A View from the Hospital/ Invited Lecture  
AABB Symposium on Implementation of Pathogen-Reduced Blood Components,  
Bethesda, MD

2015 Truth or Daratumumab? New Drug, New Blood Bank Conundrum/ Grand Rounds  
Department of Pathology and Immunology, Division of Laboratory & Genomic  
Medicine, Washington University School of Medicine, St. Louis, MO

2015 AABB Platelet Transfusion Guidelines/ Invited Lecture  
AABB Webinar: Guidelines for Platelet Use

2015 AABB Platelet Transfusion Guidelines/ Invited Lecture  
AABB Annual Meeting, Anaheim, CA

2016 HOT TOPIC: Resolving the anti-CD38 interference with blood compatibility testing/  
Invited Lecture  
AABB Webinar: Anti-CD38 Interference with Serologic Testing

- 2016 Zika Virus—Introduction/ Invited Lecture  
AABB Zika Virus Symposium: Blood and HCT/P Safety/ Invited Lecture
- 2016 Platelet transfusions in the perioperative setting/ Invited Lecture  
New York Perioperative Hemostasis Course, New York, NY
- 2016 Resolving the daratumumab interference with blood compatibility testing/ Invited Lecture  
Michigan Association of Blood Banks Annual Meeting, Livonia, MI
- 2016 Resolving the daratumumab interference with blood compatibility testing/ Invited Lecture  
American Society of Clinical Pathology Annual Meeting, Las Vegas, NV
- 2016 Using audit/feedback and electronic decision support to improve transfusion appropriateness/ Invited Lecture  
AABB Webinar: Getting to 90% Appropriate RBC Utilization: Are You There?
- 2016 Resolving the anti-CD38 interference using DTT-treated cells/ Invited Lecture  
AABB Annual Meeting, Orlando, FL
- 2016 Resolving the anti-CD38 interference with blood compatibility testing/ Invited Lecture  
Indiana Blood Center, Indianapolis, IN

### **International**

(No presentations below were sponsored by an outside entity.)

- 2015 Developing the AABB Platelet Transfusion Guidelines/ Invited Lecture  
Department of Clinical Haematology, University of Oxford, Oxford, UK
- 2016 Trial of Feedback on Blood Use (TOFU)/ Invited Lecture  
BEST/NHSBT Education Forum, Oxford, UK
- 2017 Getting to patient blood management for platelets/ Invited Lecture  
5<sup>th</sup> International Symposium on Patient Blood Management, Nahariya, Israel
- 2017 Patient Blood Management: A New Concept in Transfusion Medicine/ Invited Lecture  
XXV International Symposium of Transfusion Medicine and Cell Therapy, Sao Paulo, Brazil
- 2017 Blood Conservation Strategies for the Surgical Patient/ Invited Lecture  
XXV International Symposium of Transfusion Medicine and Cell Therapy, Sao Paulo, Brazil

- 2017            How I get the best out of a platelet transfusion/ Invited Lecture  
Transfusion Update Conference, Sydney, Australia
- 2017            Dealing with daratumumab (anti-CD38) interference/ Invited Lecture  
Transfusion Update Conference, Sydney, Australia
- 2017            Reducing blood bank sample errors using electronic patient identification  
50<sup>th</sup> Anniversary Meeting of the German Society for Transfusion Medicine and  
Immunohematology (DGTI), Cologne, Germany

**Report of Clinical Activities and Innovations**

**Current Licensure and Certification**

- 2000            Board Certified: Clinical Pathology, American Board of Pathology
- 2001-           Commonwealth of Massachusetts Full Medical License
- 2002            Board Certified: Blood Banking/Transfusion Medicine, American Board of Pathology

**Practice Activities**

- 2001-           Inpatient and ambulatory care    Transfusion Medicine, BWH/CHB/DFCI    14 wks per yr

**Clinical Innovations**

- Massive transfusion protocol for postpartum hemorrhage            In conjunction with the BWH Departments of Obstetrics and Gynecology and Anesthesiology, I devised a novel obstetrical massive transfusion protocol designed to treat life-threatening postpartum hemorrhage. This protocol has been implemented at BWH.
- Electronic decision support to improve blood utilization            I led a multidisciplinary effort at BWH to improve red blood cell utilization throughout the institution by developing new institutional transfusion guidelines and providing routine division- and physician-level feedback on transfusion practices. I helped to develop a computerized decision support system to provide automated guidance to clinicians placing electronic blood orders.
- Approaches to platelet transfusion            I helped to develop, conduct, and analyze the multicenter randomized Platelet Dose (PLADO) trial, which established the safety and efficacy of low-dose platelet prophylaxis in patients with therapy-related hypoproliferative thrombocytopenia. I led the panel that developed the first AABB clinical practice guideline on platelet transfusion.

Method to eliminate the daratumumab interference with blood compatibility testing

Daratumumab (anti-CD38) is an important new therapy for multiple myeloma, but it potently interferes with routine blood compatibility tests. The laboratory method that I developed to solve this problem has been used internationally, allowing patients receiving daratumumab to be transfused safely.

## Report of Teaching and Education Innovations

PosterCast

<https://postercast.com>

PosterCast is a mobile app designed to improve the learning experience at scientific poster sessions. PosterCast lets users stream succinct 3-minute audio explanations of scientific posters as they view them. The audio files (“PosterCasts”) are pre-recorded by poster authors using a structured template. PosterCast was implemented at three national annual meetings in 2016 (Connected Health Symposium, AABB and ASH). I created the concept, contributed to app and web site design, and led business strategy development.

## Report of Education of Patients and Service to the Community

No presentations below were sponsored by outside entities

2016 AABB and International Collaboration for Transfusion Medicine Group (ICTMG) Podcast Platelets Unplugged: The Sticky Truth.

<http://www.aabb.org/development/elearning/Pages/podcasts.aspx>

2016 BloodBankGuy Essential Podcast

010: Dr. Rick Kaufman on Daratumumab Effect. <http://www.bbguy.org/2016/05/31/bbge-010-dr-rick-kaufman-daratumumab/>

2017 BloodBankGuy Essential Podcast

035: Why Give Platelets? with Rick Kaufman  
<http://www.bbguy.org/2017/07/24/035/>

## Report of Scholarship

### Peer-Reviewed Publications in print or other media

### Research Investigations

1. Telen MJ, Rao N, Udani M, Thompson ES, **Kaufman RM**, Lublin DM. Molecular mapping of the Cromer blood group Cra and Tca epitopes of decay accelerating factor: Toward the use of recombinant antigens in immunohematology. *Blood*. 1994;84(9):3205-3211.
2. Clarkson NA, **Kaufman R**, Lublin DM, Ward T, Pipkin PA, Minor PD, Evans DJ, Almond JW. Characterization of the echovirus 7 receptor: Domains of CD55 critical for virus binding. *J Virol*. 1995;69:5497-5501.

3. Manchester M, Valsamakis A, **Kaufman R**, Liszewski MK, Alvarez J, Atkinson JP, Lublin DM, Oldstone MBA. Measles virus and C3 binding sites are distinct on membrane cofactor protein (CD46). *Proc Natl Acad Sci*. 1995;92:2203-2207.
4. Gordon DL, **Kaufman RM**, Blackmore TK, Kwong J, Lublin DM. Identification of complement regulatory domains in human factor H. *J Immunol*. 1995;155(1):348-356.
5. **Kaufman RM**, Pham CT, Ley TJ. Transgenic analysis of a 100-kb human beta-globin cluster-containing DNA fragment propagated as a bacterial artificial chromosome. *Blood*. 1999;94(9):3178-3184.
6. **Kaufman RM**, Lu ZH, Behl R, Holt JM, Ackers GK, Ley TJ. Lack of neighborhood effects from a transcriptionally active phosphoglycerate kinase-neo cassette located between the murine beta-major and beta-minor globin genes. *Blood*. 2001;98(1):65-73.
7. Lu ZH, Books JT, **Kaufman RM**, Ley TJ. Long targeting arms do not increase the efficiency of homologous recombination in the beta-globin locus of murine embryonic stem cells. *Blood*. 2003;102(4):1531-1533.
8. Zheng XL, **Kaufman RM**, Goodnough LT, Sadler JE. Effect of plasma exchange on plasma ADAMTS13 metalloprotease activity, inhibitor level, and clinical outcome in patients with idiopathic and nonidiopathic thrombotic thrombocytopenic purpura. *Blood*. 2004;103(11):4043-4049.
9. Rothschild JM, McGurk S, Honour M, Lu L, McClendon AA, Srivastava P, Churchill WH, **Kaufman RM**, Avorn J, Cook EF, Bates DW. Improving transfusion practice using education and computerized decision support interventions. *Transfusion*. 2007;47:228-239.
10. Babic AM, Josefsson EC, Bergmeier W, Wagner DD, **Kaufman RM**, Silberstein LE, Stossel TP, Hartwig JH, Hoffmeister KM. *In vitro* function and phagocytosis of galactosylated platelet concentrates after long-term refrigeration. *Transfusion*. 2007;47(3):442-451.
11. Slichter SJ, **Kaufman RM**, Assmann SF, McCullough J, Triulzi DJ, Strauss RG, Gernsheimer TB, Ness PM, Brecher ME, Josephson CD, Konkle BA, Woodson RD, Ortel TL, Hillyer CD, Skerrett DL, McCrae KR, Sloan SR, Uhl L, George JN, Aquino VM, Manno CS, McFarland JG, Hess JR, Leissinger C, Granger S. Dose of Prophylactic Platelet Transfusions and Prevention of Hemorrhage. *NEJM*. 2010; 362(7):600-613.
12. Lee AI, Campigotto F, Rawn JD, Neuberg D, **Kaufman RM**, Berliner N. Clinical significance of coagulation studies in predicting response to activated recombinant Factor VII in cardiac surgery patients. *Br J Haematol*. 2012; 157(3):397-400.
13. Triulzi DJ, Assmann SF, Strauss RG, Ness PM, Hess JR, **Kaufman RM**, Granger S, Slichter SJ. The impact of platelet transfusion characteristics on post-transfusion platelet increments and clinical bleeding in patients with hypo-proliferative thrombocytopenia. *Blood*. 2012;119(23):5553-5562.
14. Lee GC, Kicza AM, Liu KY, Nyman CB, **Kaufman RM**, Body SC. Does rotational thromboelastometry (ROTEM) improve prediction of bleeding after cardiac surgery? *Anesth Analg*. 2012;115(3):499-506.
15. **Kaufman RM**, Schlumpf KS, Wright DJ, Triulzi DJ, NHLBI Retrovirus Epidemiology Donor Study-II (REDS-II). Does Rh immune globulin suppress HLA sensitization in pregnancy? *Transfusion*. 2013;53(9):2069-2077.
16. Estcourt LJ, Heddle N, **Kaufman R**, McCullough J, Murphy MF, Slichter S, Wood EM, Stanworth SJ, Biomedical Excellence for Safer Transfusion (BEST) Collaborative. The challenges of measuring bleeding outcomes in clinical trials of platelet transfusions. *Transfusion*. 2013;53(7):1531-1543.

17. Fuchs TA, Alvarez JJ, Martinod K, Bhandari AA, **Kaufman RM**, Wagner DD. Neutrophils release extracellular DNA traps during storage of red blood cell units. *Transfusion*. 2013;53(12):3210-3216.
18. Mazonson P, Efrusy M, Santas C, Ziman A, Burner J, Roseff S, Vijayaraghavan A, **Kaufman R**. The HI-STAR Study: Resource utilization and costs associated with serologic testing for antibody-positive patients at four United States medical centers. *Transfusion*. 2014;54(2):271-277.
19. Farber MK, Sadana N, **Kaufman RM**, Liu X, Kodali BS. Transfusion ratios for postpartum hemodilutional coagulopathy: An *in vitro* thromboelastographic model. *Am J Ob Gyn*. 2014;210:323.e1-7.
20. El Assal R, Guven S, Gurkan UA, Gozen I, Shafiee H, Dalbeyber S, Abdalla N, Thomas G, Fuld W, Illigens BMW, Estanislau J, Khoory J, **Kaufman R**, Zylberberg C, Lindeman N, Wen Q, Ghiran I, Demirci U. Bio-inspired cryo-ink preserves red blood cell phenotype and function during nanoliter vitrification. *Adv Mater*. 2014;26(33):5815-5822.
21. **Kaufman RM**, Assmann SF, Triulzi DJ, Strauss RG, Ness P, Granger S, Slichter SJ. Transfusion related adverse events in the Platelet Dose study. *Transfusion*. 2015;55(1):144-153.
22. ABBETT SK, **Kaufman RM**, Gustafson M, Greenberg JO. Multifaceted approach to reducing unnecessary red blood cell utilization. *Healthcare*. 2015;3(2):67-73.
23. Savage WJ, Tobian AAR, Savage JH, Hamilton RG, Borge PD, **Kaufman RM**, Ness PM. Transfusion and component characteristics are not associated with transfusion reactions to apheresis platelets. *Transfusion*. 2015;55(2):296-300.
24. Briggs A, Gates JD, **Kaufman RM**, Calahan C, Gormley WB, Havens JM. Platelet dysfunction and platelet transfusion in traumatic brain injury. *J Surg Res*. 2015;193(2):802-806.
25. Chapuy CI, Nicholson RT, Aguad MD, Chapuy B, Laubach JP, Richardson PG, Doshi P, **Kaufman RM**. Resolving the daratumumab interference with blood compatibility testing. *Transfusion*. 2015;55(6Pt2):1545-1554.
26. Steiner ME, Ness PM, Assmann SF, Triulzi DJ, Sloan SR, Delaney M, Granger S, Bennett-Guerrero E., Blajchman MA, Scavo V, Carson JL, Levy JH, Whitman G, D'Andrea P, Pulkrabek S, Ortel TL, Bornikova L, Raife T, Puca KE, **Kaufman RM**, Nuttall GA, Young PP, Youssef S, Engelman R, Greilich PE, Miles R, Josephson CD, Bracey A, Cooke R, McCullough J, Hunsaker R, Uhl L, McFarland JG, Park Y, Cushing MM, Klodell CT, Karanam R, Roberts PR, Dyke C, Hod EA, Stowell CP. Effects of red cell storage duration in cardiac surgery patients. *NEJM*. 2015;372(15):1419-1429.
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## **Narrative report of Research, Teaching, and Clinical Contributions**

My career is focused around improving blood transfusion support for patients. As Medical Director of the BWH/DFCI Blood Bank and Transfusion Service, I am responsible for ensuring the safe and appropriate use of the approximately 60,000 blood products transfused annually at BWH and DFCI. Approximately 40% of my effort is dedicated to directing the BWH/DFCI Blood Bank Laboratory and Clinical Transfusion Service. I spend about 25% effort attending on the BWH, DFCI, and CHB transfusion services. Approximately 25% effort goes toward conducting clinical research in Transfusion Medicine, and the remaining 10% effort is applied to teaching.

My Area of Excellence is Clinical Expertise and Innovation in the field of Transfusion Medicine. I recently directed a study aimed at providing safe transfusion support to oncology patients being treated with daratumumab (anti-CD38), a novel monoclonal antibody therapy for multiple myeloma. Daratumumab potentially interferes with routine blood bank serologic tests; my group developed a novel strategy to counteract this interference in the blood bank laboratory. I am leading a large observational study designed to improve the evidence base supporting platelet transfusion prior to invasive procedures. Finally, I am leading a new international study aimed at characterizing the impact of electronic patient identification on reducing blood bank sample errors.

My major teaching leadership role is serving as Program Director of the Harvard Medical School Fellowship Program in Transfusion Medicine, a Harvard-wide, ACGME-accredited training program. I lecture on Blood Banking and Transfusion Medicine to second-year Medical Students, and have served as a tutor in the HMS second-year Hematology course. I have received three HMS Excellence in Tutoring Awards. I teach rotating students and house staff. I helped found the Margot S. Kruskall Lectureship, an annual Transfusion Medicine symposium highlighting novel developments in the field. I co-created PosterCast, a mobile app designed to improve learning from scientific poster sessions. The PosterCast system was used at the 2016 and 2017 American Society of Hematology (ASH) Annual Meetings.

Administration and Institutional Service constitute my Significant Supporting Activities. Over the past several years, I have led a multidisciplinary effort to optimize red blood cell utilization at BWH and DFCI. This work resulted in a sustained 20% reduction in total red blood cell use, helping to conserve a valuable resource while reducing patient risk. I chair the BWH/DFCI Biological Therapies Committee. In that role, I am responsible for ensuring that all biologics used across BWH and DFCI are managed using high quality processes. I also chaired the Partners ePathology Blood Bank Subcommittee. Part of the Partners-wide Epic Information System implementation, our group focused on introducing new approaches to improve transfusion safety, such as using bar code technology at the bedside to prevent transfusion errors. In 2017, I was named as the next Editor-in-Chief of *Transfusion*. I will begin my term in early 2018.

Working in Transfusion Medicine provides a highly rewarding mix of direct patient care, research, teaching, and administrative leadership. I aspire to help move the field forward through innovation, while ensuring the best possible transfusion support for patients at BWH and DFCI.