

CURRICULUM VITAE  
The Johns Hopkins University School of Medicine

Evan Martin Bloch, MD, MS

## DEMOGRAPHIC AND PERSONAL INFORMATION

### Current Appointments *(in chronological order, earliest first by start date under each subcategory)*

2015-present Assistant Professor, Department of Pathology  
2015-present Associate Director, Transfusion Medicine division

### Personal Data

Carnegie 446D1  
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### Education and Training *(in chronological order, earliest first by start date under each subcategory)*

1999 MBChB/ Bachelor of Medicine and Bachelor of Surgery, University of Cape Town, Cape Town, ZA  
2008 Post-graduate residency in Anatomic and Clinical Pathology, Tufts University, Boston, MA  
2009 Post-graduate fellowship in Transfusion Medicine, University of California San Francisco, CA  
2010 MS, Global Health, University of California San Francisco, San Francisco, CA

### Professional Experience *(in chronological order, earliest first)* \* General refers to rotation through internal medicine, surgery, emergency medicine, obstetrics and pediatrics component of pre-specialty training in South Africa

\*\*SHO: Senior House Officer position component of community service; this pre-specialty requirement involved placement and unsupervised clinical work at a rural hospital in South Africa

‡ Locum Senior House Officer positions in various disciplines including dermatology, oncology/palliative care and internal medicine. Post-graduate clinical work is necessary under the UK/South African medical systems prior to commitment to a chosen specialty

| Date         | Position, Institution/City  |
|--------------|---|
| 2000         | Intern*, Conradie Hospital, Pinelands, ZA   |
| 2001         | Senior House Officer (SHO)**, Vredenberg Hospital, Vredenberg, ZA   |
| 2002         | Resident Medical Officer, St Albans City Hospital, Hertfordshire Trust, UK  |
| 2003         | SHO Hematology-Oncology, Groote Schuur Hospital, Cape Town, ZA  |
| 2003-2004    | Locum SHO ‡Queen Alexandra/St. Mary's Hospital, Portsmouth, UK<br>Withybush General Hospital, Haverfordwest, Wales<br>Princess of Wales Hospital, Bridgend, Wales |
| 2004-2008    | Resident, Pathology, Tufts Medical Center, Boston, MA   |
| 2008-2009    | Fellow, Transfusion Medicine, University of California, San Francisco (UCSF), San Francisco, CA   |
| 2009-2010    | Masters student (MS-Global Health), UCSF, San Francisco, CA   |
| 2010- 2015   | Assistant Medical Director, Blood Centers of the Pacific, San Francisco, CA   |
| 2012-2015    | Assistant Adjunct Professor, Laboratory Medicine, UCSF, San Francisco, CA   |
| 2013- 2015   | Associate Clinical Investigator, Blood Systems Research Institute, San Francisco, CA  |
| 2015-present | Assistant Professor, Pathology, Johns Hopkins University School of Medicine, Baltimore, MD  |

2015-present Associate Director, Transfusion Medicine, Johns Hopkins Hospital, Baltimore, MD

2017-present Assistant Professor, International Health, Johns Hopkins Bloomberg School of Public Health

## PUBLICATIONS:

### Original Research [OR]

1. **Bloch EM**, Reed WF, Lee TH, Montalvo L, Shiboski S, Custer B, Barcellos LF. Male microchimerism in peripheral blood leukocytes from women with multiple sclerosis. *Chimerism* 2011;2: 6-10.
2. Mackay G, House M, **Bloch EM**, Wolfberg A. A GBS culture collected shortly after GBS prophylaxis may be inaccurate. *J Matern Fetal Neonatal Med* 2011;25: 736-8. REMOVE “and” between authors and all bolding except candidate’s name/initials
3. Diané MK, Dembele B, N’Goran L, Konaté S, **Bloch EM**, Murphy E, Lefrère JJ. The Reasons of Blood Donation Deferral in Sub-Saharan Africa: Experience of Ivory Coast. *Transfusion* 2012;52: 1602-6.
4. **Bloch EM**, Lee TH, Krause PJ, Telford SR 3rd, Montalvo L, Chafets D, Usmani-Brown S, Lepore TJ, Busch MP. Development of a real-time polymerase chain reaction assay for sensitive detection and quantitation of *Babesia microti* infection. *Transfusion* 2013;53: 2299-306.
5. Levin AE, Williamson PC, Erwin JL, Cyrus S, **Bloch EM**, Shaz BH, Kessler D, Telford III SR, Krause P, Wormser GP, Ni X, Wang H, Krueger NX, Caglioti S, Busch MP. Determination of *Babesia microti* Seroprevalence in Blood Donor Populations using an Investigational Enzyme Immunoassay. *Transfusion* 2014; 54: 2237-44.
6. **Bloch EM**, Cohn C, Bruhn R, Hirschler N, Nguyen KA. A cross-sectional pilot study of blood utilization in 27 hospitals in Northern California. *Am J Clin Pathol* 2014; 142(4): 498-505.
7. **Bloch EM**, Busch MP, Lee TH, Montalvo L, Matthews Y, Bird A, Bruhn R, Stefan V. Microchimerism in the Transfused Obstetric Population. *Vox Sang* 2014;107: 428-30.
8. Goodell AJ, **Bloch EM**, Krause PJ, Custer B. Costs, consequences, and cost-effectiveness of strategies for *Babesia microti* donor screening of the US blood supply. *Transfusion* 2014;54: 2245-57.
9. **Bloch EM**, Shah A, Khaidarova Z, Laperche S, Lefrere JJ, Hasselt JV, Zacharias P, Murphy EL supported by the Anglophone Africa Transfusion Research Group. A study of laboratory proficiency In transfusion screening for HIV, HCV and HBV in twelve African countries. *Vox Sang* 2014;107: 333-42. [SI/QI]
10. **Bloch EM**, Crookes RL, Hull J, Fawcus S, Gangaram R, Anthony J, Ingram C, Ngcobo S, Croxford J, Creel DV, Murphy EL, International Component of the NRE, Donor Evaluation S, III. The impact of human immunodeficiency virus infection on obstetric hemorrhage and blood transfusion in South Africa. *Transfusion* 2015;55: 1675-84.
11. Kane MA, **Bloch EM**, Bruhn R, Kaidarova Z and Murphy EL. Demographic Determinants of Syphilis Seroprevalence among U.S. Blood Donors, 2011-2012: A Retrospective Data Analysis. *BMC Infect Dis* 2015; 15: 63
12. Muthivhi TN, Olmsted MG, Park H, Sha M, Raju V, Mokoena T, **Bloch EM**, Murphy EL, Reddy R. Motivators and Deterrents to Blood Donation among Black South Africans: A Qualitative Analysis of Focus Group Data. *Transfus Med* 2015; 25(4): 249-58
13. Prugger C, Laperche S, Murphy EL, **Bloch EM**, Kaidarova Z, Tafflet M, Lefrère JJ, Jouven X. Screening for Transfusion Transmissible Infections using Rapid Diagnostic Tests in Africa: a Potential Hazard to Blood Safety? *Vox Sang* 2016; 110(2): 196-8. [SI/QI]
14. Vo MT, Bruhn R, Kaidarova Z, Custer BS, Murphy EL, **Bloch EM**. A Retrospective Analysis of False Positive Infectious Screening Results In Blood Donors. *Transfusion* 2016; 56(2): 457-65.
15. Goodell AJ, **Bloch EM**, Simon MS, H Shaz BH, Custer B. *Babesia* Screening: The Importance of Reporting and Calibration in Cost-Effectiveness Models. *Transfusion* 2016; 56(3): 774-5.

16. **Bloch EM**, Levin AE, Williamson PC, Cyrus S, Shaz BH, Kessler D, Gorlin J, Bruhn R, Lee TH, Montalvo L, Kamel H, Busch MP. A prospective evaluation of chronic *Babesia microti* infection in seroreactive blood donors. *Transfusion* 2016;56: 1875-82.
17. Levin AE, Williamson PC, **Bloch EM**, Clifford J, Cyrus S, Shaz BH, Kessler D, Gorlin J, Erwin JL, Krueger NX, Williams GV, Penezina O, Telford SRt, Branda JA, Krause PJ, Wormser GP, Schotthoefler AM, Fritsche TR, Busch MP. Serologic screening of United States blood donors for *Babesia microti* using an investigational enzyme immunoassay. *Transfusion* 2016;56: 1866-74.
18. Van den Berg K, **Bloch EM**, Aku AS, Mabenge M, Creel DV, Hofmeyr GJ, Murphy EL. A cross-sectional study of peripartum blood transfusion in the Eastern Cape, South Africa. *S Afr Med J* 2016;106: 1103-9.
19. Brooks T, Roy-Burman A, Tuholske C, Busch MP, Bakkour S, Stone M, Linnen JM, Gao K, Coleman J, **Bloch EM**. Evolution of Zika virus outbreak on Roatán, Honduras: A real-time observation of the epidemic. *Emerg Infect Dis* 2017;23.
20. **Bloch EM**, West SK, Mabula K, Weaver J, Mrango Z, Munoz B, Lietman TM, Coles CL Antibiotic resistance in young children in Kilosa district, Tanzania four years after mass distribution of azithromycin for trachoma control. *Am J Trop Med Hygiene* 2017;97: 815-8
21. Vermeulen M, Swanevelder R, Chowdhury D, Ingram C, Reddy R, **Bloch EM**, Custer BS, Murphy EL, Recipient Epidemiology Donor evaluation Study III. Use of Blood Donor Screening to Monitor Prevalence of HIV and Hepatitis B and C Viruses, South Africa. *Emerg Infect Dis* 2017;23: 1560-3.
22. Ifland L, Bloch EM, Pitman JP. Funding blood safety in the 21st century. *Transfusion* 2018;58: 105-12.
23. Patel EU, Ness PM, Marshall CE, Gniadek T, Efron DT, Miller PM, Zeitouni JA, King KE, **Bloch EM**, Tobian AAR. Blood Product Utilization Among Trauma and Nontrauma Massive Transfusion Protocols at an Urban Academic Medical Center. *Anesth Analg* 2017;125: 967-74.
24. **Bloch EM**, Yang Y, He M, Tonnetti L, Liu Y, Wang J, Guo Y, Li H, Leiby DA, Shan H, Parasite Subgroup International Society of Blood Transfusion Infectious Disease Working Party. A pilot serosurvey of *Babesia microti* in Chinese blood donors. *Vox Sang* 2018;113: 345-9.
25. **Bloch EM**, Kasubi M, Levin A, Mrango Z, Weaver J, Munoz B, West SK. *Babesia microti* and Malaria Infection in Africa: A Pilot Serosurvey in Kilosa District, Tanzania. *Am J Trop Med Hyg* 2018;99: 51-6.
26. Theze J, Li T, du Plessis L, Bouquet J, Kraemer MUG, Somasekar S, Yu G, de Cesare M, Balmaseda A, Kuan G, Harris E, Wu CH, Ansari MA, Bowden R, Faria NR, Yagi S, Messenger S, Brooks T, Stone M, **Bloch EM**, Busch M, Munoz-Medina JE, Gonzalez-Bonilla CR, Wolinsky S, Lopez S, Arias CF, Bonsall D, Chiu CY, Pybus OG. Genomic Epidemiology Reconstructs the Introduction and Spread of Zika Virus in Central America and Mexico. *Cell Host Microbe* 2018;23: 855-64 e7.
27. Brissett DJ, Tuholske C, Allen IE, Larios NS, Mendoza DJ, Murillo AG, **Bloch EM**. Zika Virus: Knowledge Assessment of Residents and Health-Care Providers in Roatan, Honduras, following an Outbreak. *Am J Trop Med Hyg* 2018;99: 211-5.
28. **Bloch EM**, Marshall CE, Boyd JS, Shifflett L, Tobian AAR, Gehrie EA, Ness PM. Implementation of secondary bacterial culture testing of platelets to mitigate residual risk of septic transfusion reactions. *Transfusion* 2018;58: 1647-53.
29. Erony SM, Marshall CE, Gehrie EA, Boyd JS, Ness PM, Tobian AAAR, Carroll KC, Blagg L, Shifflett L and **Bloch EM**. The epidemiology of bacterial culture positive transfusion reactions at a large tertiary academic center: 2009-2016. *Transfusion* 2018;58: 1933-9.

In press

30. **Bloch EM**, Ingram C, Hull J, Fawcus S, Anthony J, Green-Thompson R, Crookes RL, Ngcobo S, Creel D, Courtney L, Bellairs GRM, Murphy EL for the South Africa Program of the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). Risk factors for peripartum blood transfusion in South Africa: a case control study. Accepted *Transfusion* 2018.

## Review Articles [RA]

1. **Bloch EM**, Vermeulen M, Murphy E. Blood Transfusion Safety in Africa: A literature review of infectious disease and organizational challenges. *Transfus Med Rev* 2012;26: 164-80.
  2. Van den Berg K, Van Hasselt J, **Bloch E**, Crookes R, Kelley J, Berger J, Ingram C, Dippenaar A, Thejpal R, Littleton N, Elliz T, Reubenson G, Cotton M, Hull JC, Moodley P, Goga Y, Eldridge W, Patel M, Hefer E, Bird A. A review of the use of blood and blood products in HIV-infected patients. *S Afr J HIV Med* 2012;13(2):87-103
  3. **Bloch EM**, Jackman RP, Lee TH, Busch MP. Transfusion-associated microchimerism: the hybrid within. *Transfus Med Rev* 2013;27: 10-20.
  4. Pruett CR, Vermeulen M, Zacharias P, Ingram C, Tagny CT, **Bloch EM**. The use of rapid diagnostic tests for transfusion infectious screening in Africa: a literature review. *Transfus Med Rev* 2015;29: 35-44.
  5. Plourde A and **Bloch EM**. *A Literature Review of Zika Virus*. *Emerg Infect Dis* 2016; 22(7).
  6. Morar MM, Pitman J, McFarland W, **Bloch EM**. The Contribution of Unsafe Blood Transfusion to HIV Incidence in sub-Saharan Africa: Re-examination of the 5% to 10% Convention. *Transfusion* 2016 Dec;56 (12):3121-32
  7. Jimenez A, Shaz BH, **Bloch EM**. *Zika Virus and the Blood Supply: What do we know?* *Transfus Med Rev*. 2017; 31(1): 1-10.
  8. Gehrie EA, Ness PM, **Bloch EM**, Kacker S, Tobian AAR. Medical and economic implications of strategies to prevent alloimmunization in sickle cell disease. *Transfusion* 2017;57: 2267-76.
  9. Jimenez A, Shaz BH, Kessler D, **Bloch EM**. How do we manage blood donors and recipients following a positive Zika screening result? *Transfusion* 2017;57: 2077-83.
  10. Gordy AD, Cyril Jacquot C, Tobian AAR, Gehrie E, Ness PM, **Bloch EM**. *Pathogen Reduction and Blood Transfusion Safety in Africa: Strengths, Limitations, and Challenges of Implementation in Low Resource Settings*. *Vox Sang* 2018;113: 3-12.
- In press
11. Weimer A, Tagny CT, Tapko JB, Gouws C, Tobian AAR, Ness PM and **Bloch EM**. Blood Transfusion Safety in Sub-Saharan Africa: *A Literature Review of Changes and Challenges in the 21st Century*. Accepted *Transfusion* 20 August 2018.

## Case Reports [CR]

1. Bagga S, **Bloch EM**: Imaging of a case of invasive malignant thymoma on PET scan with CT and histopathological correlation. *Clin Nuclear Med*. 2006 Oct;31(10):614-6
2. **Bloch EM**, Herwaldt BL, Leiby DA, Shaieb A, Herron RM, Chervenak M, Reed W, Hunter R, Ryals R, Hagar W, Xayavong MV, Slemenda SB, Pieniazek NJ, Wilkins PP, Kjemtrup AM. The Third Described Case of Transfusion-Transmitted *Babesia duncani*. *Transfusion* 2011;52: 1517-22
3. Rabe, IB, Schwartz, BS, Farnon EC, Josephson SA, Webber AB, Roberts JP, de Mattos AM, Gallay BJ, van Slyck S, Messenger, SL, Yen CJ, **Bloch EM**, Drew CP, Fischer M, Glaser CA for the WNV Transplant Investigation Team. Fatal Transplant-Associated West Nile Virus Encephalitis and Public Health Investigation-California, 2010. *Transplantation* 2013;96: 463-8.
4. Gniadek TJ, McGonigle AM, Shirey RS, Brunker PA, Streiff M, Philosophe B, Bloch EM, Ness PM, King KE.  
A Rare, Potentially Life-Threatening Presentation of Passenger Lymphocyte Syndrome. *Transfusion* 2017 May;57(5):1262-1266.
5. Lokhandwala PM, Shabihkhani MM, Ness PM, **Bloch EM**. Therapeutic Plasmapheresis for Hyperviscosity Syndrome Secondary to High Rheumatoid Factor. *Transfusion and Apheresis Science*. *Transfusion Apheresis Sci*. 2018

## Book Chapters, Monographs [BC]

1. **Bloch EM.** TM 12-3: Transfusion Transmitted Babesiosis: clinical diagnosis, donor management and screening. *ASCP Check Sample*. ISSN 1056-5949. 2012 Apr;55(3) 27-40
2. **Genrich G, Bloch EM.** Transfusion-Transmitted Malaria: Investigation, Donor Screening and Deferral Policy. *ASCP Check Sample*. ISSN 2167 -2180. April 2013 Apr; 56 (3).
3. *Utilization Management in the Clinical Laboratory and Other Ancillary Services*. Chapter Patient Blood Management. **Jacquot C, Bloch EM.** Editors: Lewandrowski, Kent, Sluss, Patrick M. (Eds.) 2017
4. **Hsu YS, Bloch EM.** Approach to hemolysis in the recently transfused patient. *ASCP Case Report (CSTM1605)* 2016.
5. **Bloch EM, Jacquot C, Shaz B.** Chapter *Infectious Complications of Blood Transfusion in Transfusion Medicine, Apheresis, and Hemostasis* 1st Ed. Williams HPL III. Review Questions and Case Studies
6. **Jimenez A and Bloch EM.** *Overview of Infectious Disease Testing in Transfusion Medicine and Hemostasis - 3rd edition* Ed. Shaz BH, Hillyer CD and Gil MR. 2018.

#### Books, Textbooks [BK]

#### Other Publications: Suggested Additional Subcategory Titles:

#### Proceedings Reports [PR]

#### Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

#### Editorials [ED]

1. **Bloch EM.** Residual Risk of Bacterial contamination: What are the options? *Transfusion* 2017; 57: 2289-92.
2. **Bloch EM, Ness PM, Tobian AAR, Sugarman J.** Revisiting Blood Safety Practices Given Emerging Data about Zika Virus. *N Engl J Med* 2018;378: 1837-41.

#### Methods and Techniques, “How I Do It” articles [MT]

#### Research Letters/White Papers/Brief Reports [RL]

1. **Bloch EM, Simon, MS, Shaz, BH.** *Emerging Infections and Blood Safety in the 21<sup>st</sup> Century*. *Ann Intern Med*. 2016 Mar 15;
2. **Bloch EM, Mast AE, Josephson CD, Harvey G Klein HG, Eder AF.** *Teenage Blood Donors: Are we asking too little and taking too much?* *Pediatrics* 2017.

#### Published Curricula [PC], Learner Assessment Tools, Educational Evaluations, Assessment/Evaluation

#### Letters, Correspondence [LT]

#### Media Releases or Interviews [MR]

- 2/5/16 Interview with Toni Clarke (Reuters) regarding Zika and the blood supply
- 12/20/17 *Annals of Blood*; <http://aob.amegroups.com/article/view/4283/5019>  
<https://www.nejm.org/doi/metrics/10.1056/NEJMSb1704752>
- 5/9/18 <https://www.medpagetoday.com/infectiousdisease/zikavirus/72798>
- 5/9/18 <https://www.healio.com/infectious-disease/emerging-diseases/news/online/%7Ba6922f90-c795-4f15-bcc6-730441b394bc%7D/researchers-question-value-of-screening-blood-supply-for-zika>
- 5/9/18 <http://www.health.com/healthday/testing-zika-us-blood-supply-worth-cost>

5/10/18 <https://transfusionnews.com/2018/05/10/revisiting-zika-virus-screening-for-donated-blood/>  
 5/10/18 <https://khn.org/morning-breakout/viewpoints-current-drug-pricing-policies-make-suckers-of-everyone-congress-needs-to-sign-bill-help-out-veterans/>  
 5/11/18 <https://gizmodo.com/the-red-cross-wants-to-stop-universally-screening-blood-1825931112>  
 5/15/18 <https://www.naplesnews.com/story/news/health/2018/05/15/screening-blood-donations-zika-costs-millions-policy-may-change/609745002/>  
 5/15/18 <https://www.advisory.com/daily-briefing/2018/05/15/zika-blood-test>  
 5/24/18 <https://www.sciencedaily.com/releases/2018/05/180524141730.htm>

Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)

## FUNDING

### EXTRAMURAL Funding

#### CURRENT

|                         |  |
|-------------------------|--|
| 01/01/2014-11/30/20     | HIV Clinical Trials Network<br>UM1AI068613 (Eshleman)<br>NIAID<br>Role: Co-Investigator<br>Laboratory center to support HPTN (HIV Prevention and Treatment Network); the latter comprises large multicenter, multinational clinical and laboratory trials to mitigate HIV                                  |
| 1/24/17-7/24/19         | Clinical Effectiveness of Standard versus Mirasol treated apheresis platelets<br>HHSO100201600013C (Gehrie)<br>Terumo Bct<br>PI: Gehrie<br>Role: Co-Investigator<br>Randomized control trial to compare the clinical effectiveness of Mirasol pathogen reduced platelets with standard apheresis platelets |
| 9/30/2018 – 9/29/2022   | Peer Reviewed Medical Research Program (PDMRP) Clinical Trial Award<br>PR172072<br>Department of Defense<br>PI: Tobian<br>Role: Co-Investigator<br>Randomized Trial to Evaluate Mirasol Whole Blood Pathogen Reduction Technology System to Reduce Malaria and Emerging Transfusion Transmitted Infections |
| 08/07/2018 – 07/31/2020 | Point-of-care diagnostic test for <i>T. cruzi</i> (Chagas) infection<br>1R43AI136172-01 (Levin)<br>NIH/NIAID<br>Role: Collaborator<br>Development of a lateral flow point-of-care diagnostic assay for Chagas disease ( <i>T. cruzi</i> infection)   |



**Completed Research Support**

- 07/01/09-06/30/10 Microchimerism in the Transfused Obstetric Population  
The Foundation of the ISBT  
Role: Principal Investigator  
prospective cohort study to determine whether transfusion during the peripartum period results in sustained transfusion associated microchimerism
- 03/15/11-03/31/17 Recipient Epidemiology and Donor Evaluation Study-III (REDS-III) – International Sites (South Africa)  
HHSN268201100009I (Murphy)  
NIH/NHLBI  
Role: Co-Investigator  
Multicenter consortium of blood centers in four low and middle-income countries to perform epidemiologic and clinical research studies on transfusion safety. Studies focus on infectious, immunologic and hematologic complications of transfusion, both in blood donors and transfusion recipients.
- 08/31/12-08/30/14 Screening and Confirmatory Testing for Human Babesia-SBIR Phase II, Topic 56  
HHSN268201200067C (Levin)  
NIH/NIAID  
Role: Co-Investigator  
Development of an enzyme immunoassay (ELISA) for screening blood for antibodies to *Babesia microti*.
- 11/09/12-11/30/17 MORDOR- Azithromycin and Child Mortality  
7501sc-Subcontract  
Bill and Melinda Gates Foundation  
PI: West  
Role: Co-Investigator  
Cluster randomized clinical trial to evaluate the effect of azithromycin on child mortality.
- 12/01/12-11/30/14 A prospective evaluation of chronic *Babesia microti* infection in seroreactive blood donors  
R21HL117140  
NIH/NHLBI  
Role: Principal Investigator  
Prospective cohort study to evaluate kinetics of *Babesia* infection in seroreactive blood donors.
- 01/01/16-12/31/17 Babesia and the Blood Supply: People's Republic of China  
ISBT Transfusion Transmitted Infectious Diseases Working party Award  
International Society of Blood Transfusion (ISBT)  
Role: PI  
A cross-sectional evaluation of *Babesia microti* seroreactivity in Chinese blood donors

**Pending**

- 4/1/2019-3/31/2023 Mentored Patient-Oriented Research Career Development Award  
K23 12675517  
NIH/NIAID Clinical Trial Award

PI: Bloch  
 Role: PI  
 Observational study to characterize the epidemiology and risk of two neglected arboviruses in Brazil

## INTRAMURAL Funding

### Current

- 1/1/17-12/31/17 African BAOBAB (BABesia OBServational AntiBody) Study  
 The Fisher Center Discovery Program 2017  
 Johns Hopkins University- The Sherrilyn and Ken Fisher Center for Environmental Infectious Diseases  
 (No Cost Extension)  
 Role: PI  
 Pilot surveillance and case-control study 1a. To determine whether there is evidence of *B. microti* in two hamlets using a comprehensive panel of tests (ELISA, IFA, Immunoblot, blood smear PCR and TMA) for *Babesia* case ascertainment. 1b. To determine the risk factors for *B. microti* exposure by comparing survey responses in a high-risk hamlet and a geographically matched low risk companion community.
- 1/1/18-12/31/18 NOMAD (Neglected Oropouche and Mayaro Arboviral Disease) Study  
 Clinician Scientist Award  
 Johns Hopkins University School of Medicine

## CLINICAL ACTIVITIES

### Clinical Focus

- Independent practice in an underserved area in South Africa; broad clinical exposure, notably in trauma, infectious disease and internal medicine.
- Post-fellowship (transfusion medicine): routine blood center operations at Blood Centers of the Pacific
- Associate director in transfusion medicine at Johns Hopkins Hospital: hospital based blood banking and apheresis, given a diverse and frequently complex patient population.
  - Skills span management of clinical blood banking challenges (immunohematology, specialized component use, coagulation etc.) and practice in a high-volume apheresis unit (~2500+ procedures [plasma-, leukapheresis and red cell exchange] per year).

### Certification

2008 Anatomic and Clinical Pathology, Transfusion Medicine

### Medical, other state/government licensure

Date State info, identification #, any explanatory notes  
 2002- present Health Professions Council of South Africa, Medical and Dental Professions Board, Medical Practitioner  
 2007-present Medical Board of California  
 2015-present Maryland Medical Board

### Boards, other specialty certification

Date Specialty name, identification #, any explanatory notes  
 2008 Anatomic and Clinical Pathology



2009 Transfusion Medicine

### Clinical (Service) Responsibilities

| Date         | Role/time commitment, specialty  |
|--------------|--|
| 2009-2015    | Assistant medical director, Blood Centers of the Pacific, transfusion medicine   |
| 2015-present | Associate director, Transfusion Medicine, (clinical blood banking and apheresis) |

### EDUCATIONAL ACTIVITIES

Major focus is clinical transfusion medicine and infectious disease epidemiology (i.e. transfusion transmitted infections) in low resource constrained settings

- Workshops for clinicians and blood bank/laboratory personnel on the clinical use of blood
  - Content adapted to local, resource-limited environment
- Manuscript-writing and Training in Clinical Research
- Past and ongoing clinical consultation on international blood safety (e.g. Ukraine, Georgia)
- Formal and informal teaching in:
  - Basic and Systemic anatomic pathology to medical students (2004-2015),
  - Transfusion medicine to pathology residents and fellows (2008-present) at UCSF and JHU

### Teaching

|           |  |
|-----------|--|
| 2011-2015 | UCSF-Department of laboratory Medicine and Blood Centers of the Pacific, Teaching: orientation lectures for residents (donor testing) and laboratory medicine core curriculum series |
| 2011-2015 | UCSF-Transfusion Medicine Graduate Medical education Committee, Oversight of postgraduate fellowship in Transfusion Medicine   |
| 2014-2015 | UCSF-Clinical Competence Committee, Review of postgraduate fellow in Transfusion Medicine  |
| 2016      | JHU medical school, medical student teaching, alternatives to blood transfusion  |
| 2016      | JHU Pathology Residents ( <i>Transfusion Reactions</i> )   |

### Classroom instruction

| Date         | Role, learner level, course title, venue; any explanatory notes                  |
|--------------|--|
| 2008 - 2015  | Laboratory instructor, UCSF  |
| 2014 - 2015  | Instructor-Assistant Director; Clinical Scholars of Global Health Pathways, UCSF |
| 2015         | Introduction to Global Health, UCSF  |
| 2018-present | Instructor, hematology/oncology, JHU School of Medicine                          |

### Clinical instruction

2015-present Attending physician, clinical teaching of clinical pathology residents and transfusion medicine fellows

National

International

|      |   |
|------|---|
| 2010 | Continuing Education, Rational Blood, Manzini, Swaziland  |
| 2010 | Continuing Education, Rational Blood use for clinicians, Kinshasa, Democratic Republic of Congo |
| 2010 | Scientific Manuscript Writing, Mpumulanga, South Africa   |

2012 Training in Clinical Research, Nairobi, Kenya;

## RESEARCH ACTIVITIES

### Research Focus

- Primary Focus
  - Epidemiology and intervention trials focused on neglected and emerging infectious disease, such as Dengue, Zika and parasitic infections (e.g. babesia and malaria), specifically in the context of blood transfusion.
  - Clinical and operational blood safety in low resource settings
- Experience with large multicenter, multinational studies that include NIH-funded projects (e.g. Recipient Epidemiology and Donor Evaluation Study (REDS-III) [South Africa-Obstetric hemorrhage and transfusion practice in relation to HIV], *Babesia microti* assay development for blood donor screening) and –recently- an intervention trial funded to evaluate the impact of azithromycin on childhood mortality in Tanzania.

## SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

2016-present Implementation of secondary bacterial culture system of platelets to mitigate risk of bacterial contamination septic transfusion reactions

## ORGANIZATIONAL ACTIVITIES

### Institutional Administrative Appointments

| Date          | Role, Committees, any explanatory notes  |
|---------------|--|
| 2011-2015     | Global Health Sciences Applications Committee Masters program (Global Health)        |
| 2013-2015     | Member, UCSF, Medical School admissions committee                                    |
| 2014-2015     | UCSF-Global Health Sciences-Global Health Pathways to Discovery (Assistant director) |
| 2014-2015     | UCSF-Global Health Sciences Education Committee                                      |
| 2014-2015     | UCSF RAPTr Review Committee  |
| 2015-present  | Member, Johns Hopkins University, Medical School admissions committee                |
| 2016-present  | JHU Residency Admissions Committee (Pathology)                                       |
| 2016- present | JHU Clinical Competency Committee (Transfusion Medicine Post-graduate fellowship)    |
| 2018-present  | Director, JHU Transfusion Medicine, Post-graduate fellowship                         |

### Editorial Activities

#### Editorial Board appointments

2018-present Editorial board member, *Transfusion*  
 2018-present Review Editor, *Africa Sanguine*  
 2018-present Editorial board member, *Annals of Blood*

#### Journal peer review activities

2009- present Transfusion  
 2010 Transfusion Medicine Reviews  
 2011 Critical Reviews in Hematology Oncology  
 2012 Journal of Neonatal-Perinatal Medicine  
 2012 Virology Journal  
 2014 Antimicrobial Agents and Chemotherapy  
 2014 WHO South-East Asia Journal of Public Health  
 2014 Hepatology  
 2014-present International Journal of Clinical Transfusion Medicine

|              |   |
|--------------|---|
| 2015-present | Biomed Central (BMC)                            |
| 2015         | Cancer Management and Research                  |
| 2015         | Journal of Neonatology & Clinical Pediatrics    |
| 2015         | Chimerism                                       |
| 2015         | Journal of Virological Methods                  |
| 2015         | Clinical Medicine Insights: Blood Disorders.    |
| 2016         | Journal of Clinical Apheresis                   |
| 2016         | Emerging Infectious Diseases                    |
| 2016-present | ISBT Science Series                             |
| 2016         | BMJ Global Health                               |
| 2016         | Journal of Infection and Public Health          |
| 2016         | Journal of Blood Transfusion                    |
| 2016         | American Journal of Tropical Medicine & Hygiene |
| 2017         | Journal of Parasitology                         |
| 2018         | Epidemiology and Infection                      |
| 2018         | BMC Hematology                                  |
| 2018         | Blood   |
| 2018         | Vox Sanguinis                                   |

#### Other peer review activities

|      |   |
|------|---|
| 2016 | Reviewer, Swiss National Science Foundation   |
| 2018 | Invited reviewer, Scientific Review meeting (abstract selection) ahead of 35 <sup>th</sup> Congress of ISBT |

#### Advisory Committees, Review Groups/Study Sections

|      |   |
|------|---|
| 2017 | Scientific Reviewer, Congressionally Directed Medical Research Programs (CDMRP) Tick borne Diseases Panel |
|------|---|

#### Professional Societies

|               |  |
|---------------|--|
| 2010          | American Society of Clinical Pathologists (ASCP), drafted questions for Pathologist Recertification individualized Self-Assessment Examination (PRISE) |
| 2010          | Wrote questions for Residency and Fellowship In-service Examination (RISE)   |
| 2013-present  | AABB, assessor   |
| 2015-present  | International Society of Blood Transfusion (ISBT)-Transfusion Transmitted Infectious Disease Working Group (TTID)                                      |
| 2015-present  | ISBT-TTID Working Party- Parasite subgroup (Co-Chair)  |
| 2015- present | AABB, Molecular subcommittee (committee member)  |
| 2016-present  | African Society of Blood Transfusion Education committee member  |
| 2017-present  | AABB, Global Blood Safety Forum, Steering Committee and Policy subcommittee  |
| 2018-present  | AABB, Education subcommittee   |

#### Session Chair (*separate into JHMI/Regional – National - International activities*)

##### Regional

|         |  |
|---------|--|
| Date    | Sponsor/organization/group   |
| 3/24/17 | Global Healing/International Blood Safety Forum-moderated session on transformative technologies |

#### Consultantships

|              |   |
|--------------|---|
| Date         | Organization/agency, notes  |
| 2010-present | Safe Blood for Africa, input on blood safety initiatives (clinical guidelines, policy etc.) |

|              |  |
|--------------|--|
| 2013-present | Global Healing, input on blood safety initiatives                                    |
| 2013-present | American International Health Alliance, ad hoc consultation on blood safety projects |
| 2015-present | Blood Systems Research Institute, ad hoc consultation on blood safety projects       |
| 2017-present | CDC, external expert on blood safety project, Republic of Georgia                    |

## RECOGNITION

### Awards, Honors

| Date      | Title, description, sponsor, any explanatory notes  |
|-----------|---|
| 1995-1999 | <u>Amelia Schenkman scholarship</u> , merit based partial academic scholarship while at University of Cape Town, medical school, ZA |
| 2007-2008 | <u>Chief resident</u> , Pathology , Tufts Medical Center, Boston, MA  |
| 2008      | <u>Donald West King Fellowship in Environmental and Infectious Disease</u> ; Armed Forces Institute of Pathology, DC                |
| 2014      | <u>Karen Williams Memorial Lecturer</u> , South Central Association of Blood Banks  |
| 2018      | <u>Clinician Scientist Award</u> , Johns Hopkins University School of Medicine  |

### Invited Talks

#### JHMI/Regional

|      |   |
|------|---|
| 2008 | California Blood Bank Society (Duarte, CA); <i>Emerging Technologies in Transfusion Medicine: Molecular Genotyping of Donors and Patients</i>   |
| 2009 | California Blood Bank Society (annual meeting, Lake Tahoe, CA); <i>Transfusion transmitted Toxoplasmosis “Letting the Cat out of the Bag” and Babesiosis, “malaria in New England”</i>                          |
| 2009 | Galileo Health Academy; <i>The history of Blood Transfusion and diversity in the blood supply</i>   |
| 2009 | UCSF Blood Transfusion Service; <i>Emerging Technologies in Transfusion Medicine: Molecular Genotyping of Donors and Patients</i>   |
| 2009 | Kaiser Permanente Department of Medicine; <i>Transfusion Reactions</i>  |
| 2010 | Blood Systems Research Institute weekly post-doc seminar; <i>Transfusion-Transmitted Babesiosis “Malaria hits New England”</i>  |
| 2010 | Blood Systems Research Institute weekly summer intern presentation; <i>Blood Safety in Africa</i>   |
| 2010 | American Osteopathic College of pathologists Fall CME conference; <i>Leukocyte Microchimerism Following Blood Transfusion</i>   |
| 2010 | Kaiser Permanente Dept of Pediatrics; <i>Transfusion Reactions</i>  |
| 2010 | California Blood Bank Society (Regional meeting, Sacramento); <i>Emerging Transfusion Transmitted Diseases</i>  |
| 2011 | Medical and Scientific Advisory Committee meeting, Blood Centers of the Pacific; <i>A case of Transfusion-Transmitted Malaria</i>   |
| 2011 | Technical Advisory committee meeting, Blood Centers of the Pacific; <i>Approach to platelet transfusion refractoriness</i>  |
| 2011 | University of San Francisco, Theology and HIV course; <i>Blood Safety in Africa</i>   |
| 2011 | America’s Blood Centers, Fund Development, communications and Donor Recruitment Workshop<br><i>Blood safety in Africa, Clinical Practice and Research</i>   |
| 2011 | North Inyo Hospital, Bishop, CA; <i>Bloodbanking in the Eastern Sierras :Indications, Risks and Challenges</i>  |
| 2011 | UCSF Department of Laboratory Medicine (Resident core lecture series); <i>Beyond Blood banking: Overview of Blood substitutes, Blood Pharming, PRP, Universal red cells, PRP and autologous serum eye drops</i> |
| 2011 | Cerus Corporation, Concord, CA; <i>Blood Safety in Africa: Organizational Challenges and Infectious Disease</i>   |

- 2011 Blood Systems TMAP teleconference; *B. microti Donor Screening and Follow-up Studies to Establish National Screening Policies*
- 2013 UC Riverside Global Health Day; *Blood Safety in South Africa and Brazil*
- 2013 California Department of Public Health: Division of Communicable Disease Control; *Current Issues and Public Health Response Related to Blood-Transfusion Transmitted Disease*
- 2013 UCSF residents Transfusion Medicine Core curriculum; *Irradiated blood products and washed/volume reduced components*
- 2013 BSI Transfusion Medicine and Academic Policy meeting; *Transfusion Transmitted Babesiosis: the decision to screen blood donors for Babesia microti*
- 2013 University of San Francisco, Theology and HIV course; *Blood Safety in Africa*
- 2014 BSRI Transfusion Symposium; *Obstetric Blood Transfusion*
- 2014 South Central Association of Blood Banks annual meeting, Fort Worth TX, Karen Williams Memorial lecture; *Advances in Blood Safety*
- 2014 Creative Testing Solutions, Medical Scientific Advisory Board meeting, Scottsdale, AZ; *Update on Babesia studies*
- 2014 UCSF-Global Health Sciences-Masters Program, BSRI; *Blood Safety in Africa*
- 2014 Roatán Interprofessional Program Symposium; *TIGRE-Transdisciplinary Immersion in Global Health research and Education*
- 2015 UCSF-Department of laboratory medicine; *Transfusion Transmitted Babesiosis: lessons learned from an emerging infectious disease*
- 3/31/16 Johns Hopkins Borrelia Interest Group; *Babesia microti and the US Blood Supply*
- 10/27/16 Johns Hopkins University Pathology Symposium, *Zika and the Blood Supply: Lessons Learned*
- 1/3/17 Johns Hopkins University Fisher Center; *African BAOBAB (BAbesia OBservational AntiBody) Study*
- National
- 2010 American Society of Clinical Pathology (ASCP); (audioconference); *Leukocyte Microchimerism Following Blood Transfusion*
- 2011 Tufts Medical Center, Dept of Pathology, Boston, MA; *Blood Safety in Africa*
- 10/15/16 Lyme Disease Association/Columbia CME Conference, St. Paul, MN, *Babesia and the Blood Supply: Lessons Learned*
- 4/11/17 HIV Prevention and Treatment Network, Annual Meeting Plenary; *Networking in the 21<sup>st</sup> Century: Responding to Emerging Infectious Diseases*
- 2018 Transfusion Medicine and Cellular Therapy, New York Presbyterian Hospital-Weill Cornell, New York; *Emerging infectious diseases and the Blood Supply, 13<sup>th</sup> June 2018*
- 2018 United States Food and Drug Administration (FDA); *Implementation of A secondary bacterial culture system to address residual risk of bacterial contamination of platelets, 18<sup>th</sup> July 2018*
- 2018 University of California San Francisco-Global Health Sciences *Masters of Science in Global Health: 9 years on, 10<sup>th</sup>, 27<sup>th</sup> July 2018*
- International
- 2009 REDS-III project planning meeting held at South African National Blood Service (SANBS) in Johannesburg, South Africa; (attendee and presenter); *Transfusion Associated Microchimerism in the Obstetric Population*
- 2010 University of Witwatersrand, Dept of Hematology and Molecular Medicine, Johannesburg, South Africa; *Leukocyte Microchimerism Following Blood Transfusion*

- 2010 Invited attendee Botswana National Transfusion Committee planning meeting for Policy and Clinical Guidelines; held in Gaborone, Botswana; funded by Safe Blood for Africa foundation
- 2010 Inkosi Albert Luthuli Hospital, Dept of Hematology, Durban, South Africa; *Leukocyte Microchimerism Following Blood Transfusion*
- 2010 University of Kwazulu-Natal, School of Public Health, Durban, South Africa; *Blood Safety in Africa*
- 2010 Dept of Obstetrics, King Edward VIII Hospital Durban, South Africa; *Management of Transfusion Reactions*
- 2010 Doris Duke medical research Institute, NR Mandela School of Medicine, Durban, South Africa; *Leukocyte Microchimerism Following Blood Transfusion; Introduction to REDS-III research program*
- 2011 National Laboratory Medicine Congress, Sandton, South Africa; *Transfusion Associated Microchimerism: The Hybrid Within*
- 2013 Stakeholders Meeting, Kiev Ukraine; *International standards in Blood Banking*
- 2013 Post-graduate Diploma of Transfusion Medicine, University of the Free State, South Africa; *Blood Safety in Africa; Peripartum Blood Transfusion; Transfusion Associated Microchimerism; Transfusion Transmitted Babesiosis: the decision to screen blood donors for Babesia microti*
- 2013 South African National Blood Transfusion Congress, Cape Town, South Africa; *Peripartum blood transfusion in South Africa, a high HIV prevalence setting*
- 2014 Seguridad Sanguinea: Tendencias compromisos, exito y retos, conference, PAHO and Grupo Cooperativo Iberoamericano de Medicina Transfusional, Lima, Peru; *Health Economics in a Nutshell: a Blood Banking Perspective*
- 2015 25<sup>th</sup> Regional Conference of ISBT, London, United Kingdom; *A prospective evaluation of chronic B. microti infection in seroreactive blood donors*
- 2015 South African National Blood Transfusion Congress, Drakensberg, South Africa; *REDS-III South Africa Obstetric Studies*
- 2016 IX Congreso Asociacion Colombiano de Bancos de Sangre y Medicina Transfusional, Medellin, Colombia; *Transfusion transmitted babesiosis: Response to Emerging Infectious Diseases, a Blood Banking perspective; Advances in Blood Safety; REDS-III South Africa: Studies of Obstetric hemorrhage and Transfusion Practice*
- 2016 ISBT 34<sup>th</sup> International Congress Congress, Dubai, United Arab Emirates; *State of the Art in Obstetric Transfusion Practice: The REDS Programme*
- 2017 Segundo Seminario Internacional en Salud Enfermedades Infecciosas, Santa Cruz de la Sierra, Bolivia;  
*Zika y suministro de sangre: Lecciones aprendidas; Babesia: Una enfermedad infecciosa emergente*
- 2017 Africa Society of Blood Transfusion Meeting, Sun City, South Africa; *The Role of the Education Committee*
- 2017 ISBT Webinar; *Emerging Infectious Diseases and Blood Safety in the 21<sup>st</sup> Century*
- 2018 XVII Congreso Iberoamericano de Bancos de Sangre y Medicina Transfusional, Barranquilla, Colombia  
*Bacterial contamination of Blood Products: a Neglected Threat to the Blood Supply; Zika and the Blood Safety: a US Perspective*
- 2018 35<sup>th</sup> International congress of the ISBT, Toronto, Canada; *Update of activities of the ISBT Parasite sub group*

## **OTHER PROFESSIONAL ACCOMPLISHMENTS (Optional)**

### **Posters:**



- 9/10-11/06 Di Meo TA, **Bloch EM**, and Kuperwasser C "Elucidating the Role of Wnt Signaling in Breast Cancer Metastases" poster presented annual CMDDB.
- 10/22/06 **Bloch EM**, Wehrli G: *Where has all the rFVIIa gone?* Presented AABB transfusion expo, Miami
- 10/27/06 Di Meo TA, **Bloch EM**, and Kuperwasser C "An Orthotopic Model System of Human Breast Cancer with Organ-Specific Metastasis in part through Altered Wnt Signaling; Cambridge, MA
- 10/21/-10/07 **EM**, Kaufman NL, Kasaroglu HO, Ralston SJ, Lopez-Plaza I: *ABO Hydrops- An Unusual Manifestation of a Common Phenomenon* AABB transfusion expo
- 1/26-1/31/09 Mackay G, House MD, **Bloch EM**, Wolfberg AJ. *A GBS Culture Collected After Antibiotic Administration May Be Inaccurate*. Society for Maternal Fetal Medicine 29th Annual Meeting "The Pregnancy Meeting" in San Diego CA.
- 7/11-7/16/09 Giermasz A, **Bloch EM**, Knoche J, Fogarty PF. *Platelet Transfusion Independence Achieved with use of a Thrombopoietin Receptor (TPO-R) Agonist in Refractory Severe Aplastic Anemia (SAA)*. XXII Congress of International Society on Thrombosis and Haemostasis, Boston, MA
- 10/24-10/27/09 **Bloch EM**, Gaensler K and Nambiar A. *Delayed red cell engraftment following hematopoietic stem cell transplantation (HSCT) complicated by mismatch for ABO and minor RBC antigens*. AABB Annual Meeting and TXPO, New Orleans, LA. 2009.
- 10/24-10/27/09 **Bloch EM**, Pang L, Eagan E, O'Donnell RJ and Nambiar A. *The Curious Case of Naturally Occurring anti-D*; AABB Annual Meeting and TXPO, New Orleans, LA. 2009.
- 09/19-09/21/10 **Bloch EM**, Sukati H, Forbes C, Van Hasselt JD. *An Outreach in Swaziland: Continuing Medical Education in the Appropriate Clinical Use of Blood*. Annual meeting for Consortium of Universities for Global Health, Seattle, WA
- 10/9-10/12/10 Losada E, **Bloch EM**, Su L, Pandey S, Nambiar A. *Antibodies Targeted to Platelet-Specific Antigen HPA-5b in a Patient with Severe HLA-alloimmunization and Platelet Transfusion Refractoriness*. AABB Annual Meeting and TXPO, Baltimore, MD
- 10/9-10/12/10 Losada E, **Bloch EM**, Thorsen R, Chapman T, Giannarelli G, Johnson D, Nambiar A. *Operational Impact of a Policy Requiring Avoidance of Group O Apheresis Platelets for Group A Patients*. AABB Annual Meeting and TXPO, Baltimore, MD
- 10/22-10/25/11 Moayeri M, **Bloch EM**, Nguyen K, Hirschler N, Schwartz B, Glaser C, Hunter R and Pandey S. *BloodTraceback Investigation in a Recent Transplant-Associated West Nile Virus Infection*. AABB Annual Meeting and TXPO, San Diego, CA.
- 10/22-10/25/11 **Bloch EM**, Winn L, Warren D and Nguyen K. *Pseudo-Polyagglutination in a Patient with Post-Transfusion*. AABB Annual Meeting and TXPO, San Diego, CA.
- 10/20-10/23/11 Weber IB, Schwartz B<sup>2</sup>, Farnon E, Josephson SA, de Mattos A, Gallay B, van Slyck S, Messenger S, Yen C, **Bloch E**, Drew C, and Glaser C. *Fatal transplant-associated West Nile virus encephalitis and public health response – California, 2010*. IDSA annual meeting, Boston, MA.
- 7/7-7/12/12 **Bloch EM**, Busch MP, Lee TH, Montalvo L, Bird A, Matthews Y and Stefan. *Microchimerism in the Transfused Obstetric Population*. 32<sup>nd</sup> Congress of the ISBT, Cancun, Mexico.
- 10/12-10/15/13 Hull J, Gangaram R, Fawcus S, Anthony J, **Bloch EM**, Crookes R, Ingram C, Ngcobo S, Croxford J, Creel D and Murphy EL for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Peripartum blood transfusion in South Africa: relative contributions of prenatal anemia, obstetric hemorrhage and inter-hospital variation*. AABB annual meeting and CTTXPO, Denver, CO
- 10/12-10/15/13 Van den Berg K, **Bloch EM**, Moleli N, Ingram C, Swanevelder R, Muthivhi T, Langer J, Custer B, Murphy EL for the NHLBI Recipient Epidemiology and Donor



- 1/27/14 Evaluation Study-III (REDS-III). *Racial Differences in Syncope Rates among South African Blood Donors*. AABB annual meeting and CTTXPO, Denver, CO  
**Bloch EM**, Custer B, Ingram C, Reddy R, Crookes R, Vermeulen M, Swanevelder R, Ngcobo S, van den Berg K, Muthivhi T, Makoena T, Raju V, Sullivan M, Olmstead M, Langer J, Courtney L, Creel D and Murphy EL for the International Component of the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *The Recipient Epidemiology and Donor Evaluation Study (REDS-III) South Africa: Epidemiological and clinical research to improve blood safety in South Africa*. UCSF Global Health Research Symposium, San Francisco, CA.
- 7/30-8/2/14 Van den Berg K, **Bloch EM**, Moleli N, Ingram C, Swanevelder R, Muthivhi T, Langer J, Custer B, and Murphy EL for the international component of the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *The impact of race, age and sex on vasovagal events among South African Blood Donors*. 7<sup>th</sup> Congress of the African Society of Blood Transfusion (AfSBT), Victoria Falls, Zimbabwe.
- 7/30-8/2/14 Van den Berg K, **Bloch EM**, Aku A, Mabenge M, Ingram C, Croxford J, Creel D, Murphy EL for the International Component of the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Obstetric Transfusion Practices in the Eastern Cape Province of South Africa*. 7<sup>th</sup> Congress of the African Society of Blood Transfusion (AfSBT), Victoria Falls, Zimbabwe.
- 10/24-10/27/15 Vermeulen M, Swanevelder R, Chowdhury D, Ingram C, Reddy R, Muthivhi T, **Bloch EM**, Custer B and Murphy EL for the NHLBI recipient epidemiology and donor evaluation study-III (REDS-III) international component. *Prevalence of HIV, Hepatitis B and C viruses in South African Blood Donors, 2012-2014*. AABB annual meeting and CTTXPO, Anaheim, CA.
- 10/22-10/25/16 **Bloch EM**, Ingram C, Hull J, Fawcus S, Anthony J, Green-Thompson R, Crookes R, Ngcobo S, Creel D, Courtney L and Murphy EL for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Peripartum blood transfusion in South Africa: an Association between HIV Infection and Risk of Transfusion*. AABB annual meeting and CTTXPO, Orlando, FL.
- 10/7-10/10/17 Hull J, **Bloch EM**, Ingram C, Crookes R and Murphy EL for the REDS-III International Program. *Understanding Iron Deficiency Anemia Among HIV Positive and Negative Pregnant Women in South Africa: A First Step Toward Prevention of Peripartum Blood Transfusion*. AABB annual meeting and CTTXPO, San Diego, CA.
- 10/7-10/10/17 Lokhandwala PM, Shabihkhani M, Ness PM, **Bloch EM**. *Therapeutic Plasma Exchange in Polyclonal Hyperviscosity Syndrome*. AABB annual meeting and CTTXPO, San Diego, CA.
- 6/2-6/6/18 **Bloch EM**, Kipiani E, Gvinjilia L, Alkhazashvili M, Chitadze N, Skhomelidze I, Turdziladze A, Getia V, Keating S. *Blood Transfusion Safety and Elimination of Hepatitis C in Georgia*. 35<sup>th</sup> International congress of the ISBT, Toronto, Canada
- 6/2-6/6/18 Karim F, Qadir H, Grabowski K and **Bloch EM**. *Seroprevalence of HIV, HBV, HCV, Syphilis and Malaria Among Blood Donors at a Large Academic Center in Pakistan: 2005-2016*. 35<sup>th</sup> International congress of the ISBT, Toronto, Canada
- 6/19-6/22/18 **Bloch EM**, Ingram C, Hull J, Fawcus S, Anthony J, Green-Thompson R, Crookes RL, Ngcobo S, Creel D, Courtney L, Bellairs GRM and Murphy EL for the South Africa Program of the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Risk Factors for Peripartum Blood transfusion in South Africa: a Multicenter Case Control Study*. 9th Congress of the Africa Society for Blood Transfusion (AfSBT), Arusha, Tanzania

- 10/22-10/25/11 **Bloch EM**, Lee TH, Krause PJ, Telford SR, Montalvo L, Chafets D, Busch MP. *Development of a Real-Time PCR based assay for detection of Babesia microti*. Bloch L, Messick A, **Bloch EM**, Hirschler N. *Communicating with the Public During Times of Disaster via Facebook*. AABB Annual Meeting and TXPO, San Diego, CA.
- 6/4-6/7/12 **Bloch EM**, Shah A, Khaidarova Z, Laperche S, Lefrere JJ, Hasselt JV, Zacharias P, Murphy EL supported by the Anglophone Africa Transfusion Research Group. *A study of laboratory proficiency In transfusion screening for HIV, HCV and HBV in twelve African countries*. Bi-annual African Society of Blood Transfusion (AfSBT) meeting in Mauritius.
- 6/4-6/7/12 Murphy EL, McFarland W, Custer B, Shiboski C, Sabino E, Proietti AB, **Bloch EM**, Lefrere JJ. *Training in Clinical Research Relevant to International Transfusion Safety*. Bi-annual African Society of Blood Transfusion (AfSBT) meeting in Mauritius.
- 6/2-6/5/13 Reddy R, Olmsted M, Muthivhi T, Park H, Sha M, Mokoena T, Raju V, Mathavha K, Russell B, **Bloch EM**, Crookes R, Murphy EL for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Motivators and Deterrents to Blood Donation among Black South Africans: A Qualitative Analysis of Focus Group Data*. 23rd International Congress of the International Society of blood transfusion, Amsterdam, Netherlands.
- 6/2-6/5/13 **Bloch EM**, Crookes R, Hull J, R Gangaram, Fawcus S, Anthony J, Ingram C, Ngcobo S, Croxford J, Creel D, EL Murphy for the Recipient Epidemiology and Donor Evaluation Study-III (REDS-III) South Africa study group. *The Impact of HIV Infection and Blood Transfusion in South Africa*. 23rd International Congress of the International Society of blood transfusion, Amsterdam, Netherlands.
- 9/1-9/3/13 **Bloch EM**, Crookes R, Hull J, R Gangaram, Fawcus S, Anthony J, Ingram C, Ngcobo S, Croxford J, Creel D, EL Murphy for the Recipient Epidemiology and Donor Evaluation Study-III (REDS-III) South Africa study group. *Peripartum blood transfusion in South Africa, a high HIV prevalence setting*. National Blood Transfusion Congress, Cape Town, South Africa.
- 9/1-9/3/13 Reddy R, Olmsted M, Muthivhi T, Park H, Sha M, Mokoena T, Raju V, Mathavha K, Russell B, **Bloch EM**, Crookes R, Murphy EL for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III). *Motivators and Deterrents to Blood Donation among Black South Africans: A Qualitative Analysis of Focus Group Data*. National Blood Transfusion Congress, Cape Town, South Africa.
- 10/12-10/15/13 Levin AE, Williamson PC, James L, Erwin JL, Cyrus S, **Bloch EM**, Shaz B, Kessler D, Telford III SR, Krause P, Ni X, Wang H, Krueger NX, Caglioti S, Busch MP. *Determination of seroprevalence of Babesia microti in Endemic and Non-Endemic Blood Donor Populations using an Investigational ELISA*. AABB annual meeting and CTTXPO, Denver, CO
- 3/17-3/20/15 **Bloch EM**, Crookes R, Hull J, R Gangaram, Fawcus S, Anthony J, Ingram C, Ngcobo S, Croxford J, Creel D, EL Murphy for the Recipient Epidemiology and Donor Evaluation Study-III (REDS-III) South Africa study group. *The Impact of HIV Infection and Blood Transfusion in South Africa*. Priorities in Perinatal Care in Drakensberg, KZN, South Africa.
- 6/27-7/1/15 **Bloch EM**, Levin AE, Williamson PC, Cyrus S, Shaz B, Kessler D, Gorlin J, Bruhn R, Guiltinan A, Busch MP. *A prospective evaluation of chronic B. microti infection in seroreactive blood donors*. 25<sup>th</sup> Regional Conference of the ISBT, London, United Kingdom.
- 10/24-10/27/15 **Bloch EM**, Levin AE, Williamson PC, Cyrus S, Shaz B, Kessler D, Gorlin J, Kamel H, Bruhn R, Guiltinan A, Busch MP. *Prospective evaluation of B. microti seroreactive blood donors using laboratory and questionnaire assessment*. AABB annual meeting and CTTXPO, Anaheim, CA.

- 10/24-10/27/15 Levin AE, Williamson PC, **Bloch EM**, Shaz B, Kessler D, Gorlin J, Cyrus S, Clifford J, Krueger NX, Erwin JL, Busch MP. *Screening U.S. Blood Donors for Babesia microti with an Investigational EIA*. AABB annual meeting and CTTXPO, Anaheim, CA.
- 5/31-6/3/16 Vermeulen M, Swanevelder R, Chowdhury D, Ingram C, Reddy R, Muthivhi T, **Bloch EM**, Custer B, Murphy EL for the NHLBI recipient epidemiology and donor evaluation study-III (REDS-III) international component. *Prevalence of HIV, Hepatitis B and C viruses in South African Blood Donors, 2012-2014*. African Society of Blood Transfusion, Bi-Annual Meeting, Kigali, Rwanda.
- 10/7-10/10/17 **Bloch EM**, Marshall CE, Boyd JS, Tobian AAR, Ness PM. *Implementation of Secondary Bacterial Culture Testing of Platelets to Mitigate Residual Risk of Septic Transfusion Reactions*. AABB annual meeting and CTTXPO, San Diego, CA.
- 10/7-10/10/17 Erony S, Marshall CE, Boyd JS, Gehrie EA, Ness PM, Tobian AAR, **Bloch EM**. *Clinical signs and symptoms of blood culture positive transfusion reactions*. AABB annual meeting and CTTXPO, San Diego, CA.
- 11/25-11/28/17 Yang Y, He M, Shan H, Tonnetti L, Liu Y, Wang J, Guo Y, Li H, **Bloch EM**. A Pilot serosurvey of Babesia microti in Chinese blood donors. ISBT 28<sup>th</sup> regional conference, Guangzhou, China.