

June 1, 2019

CURRICULUM VITAE
ADAM C. LEVINE, MD, MPH, FACEP

The Warren Alpert Medical School of Brown University
Department of Emergency Medicine
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EDUCATION

Undergraduate	University of Southern California Creative Writing Aug 1996 to May 2000 Bachelors of Arts, 2000
	University of Southern California Biomedical Engineering Aug 1996 to May 2000 Bachelors of Science, 2000
Medical School	University of California, San Francisco School of Medicine Aug 2000 to Dec 2004 Doctor of Medicine, 2004
Other Degrees	University of California, Berkeley Aug 2003 to May 2004 Master of Public Health (International Health), 2004
	Jamkhed International Institute for Training and Research May 2003 to Aug 2003 Certificate in Community Based Health & Development, 2003
	Harvard Humanitarian Studies Course May 2007 to May 2009 Certificate in Humanitarian Studies and Field Practice, 2009
	National Institutes of Health mHealth Training Institute Aug 2017 Certificate in Mobile Health Research

POSTGRADUATE TRAINING

Residency	Brigham and Women's Hospital/Massachusetts General Hospital Harvard Affiliated Emergency Medicine Residency July 2005 to June 2009 Emergency Medicine
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POSTGRADUATE HONORS AND AWARDS

2008	Maryanne Povinelli Humanism Award BWH/MGH Harvard Affiliated Emergency Medicine Residency
2009	Golden Probe Award for Best Resident Ultrasonographer BWH/MGH Harvard Affiliated Emergency Medicine Residency
2012	Humanitarian Service Award Society for Academic Emergency Medicine Global Emergency Medicine Academy
2012	Dean's Excellence in Teaching Award Brown University Alpert Medical School
2012	Exemplary Service Award, Department of Emergency Medicine, Brown University Alpert Medical School
2013	Community Service Award American Medical Association Young Physicians Section
2015	Rhode Islander of the Year, Rhode Island Monthly Magazine
2016	Nathan Davis International Award in Medicine, American Medical Association Foundation
2017	Global Health Impact Award, Department of Emergency Medicine, Brown University Alpert Medical School

PROFESSIONAL LICENSES AND CERTIFICATION

2005	Advanced Cardiac Life Support
2005	Advanced Trauma Life Support
2006-	Full License, Massachusetts Board of Registration in Medicine
2008	Full License, Health Professions Council of South Africa
2009-	Full License, Rhode Island Board of Medical Licensure and Discipline
2010-2014	Full License, Rwanda Medical Council
2011-	Diplomate, American Board of Emergency Medicine
2012-	Fellow, American College of Emergency Physicians

ACADEMIC APPOINTMENTS

2009-2016	Assistant Professor, Department of Emergency Medicine Brown University Alpert Medical School Providence, Rhode Island
2009-	Affiliated Expert Harvard Humanitarian Initiative Cambridge, Massachusetts
2010-	Affiliate Faculty Lifespan Center for International Health Research Providence, Rhode Island
2012-2018	Program Director, Global Emergency Medicine Fellowship Brown University Alpert Medical School Providence, Rhode Island
2013-2018	Co-Convener, Brown International Advanced Research Institute (BIARI) Brown University Watson Institute for International and Public Affairs Providence, Rhode Island

- 2016- Associate Professor, Department of Emergency Medicine
Brown University Alpert Medical School
Providence, Rhode Island
- 2016- Faculty Fellow
Brown University Watson Institute for International and Public Affairs
Providence, Rhode Island
- 2016-2019 Director, Humanitarian Innovation Initiative
Brown University Watson Institute for International and Public Affairs
Providence, Rhode Island
- 2018- Director, Division of Global Emergency Medicine
Brown University Department of Emergency Medicine
Providence, Rhode Island
- 2018- Honorary Associate Professor in Emergency Medicine
College of Medicine and Health Sciences, University of Rwanda
Kigali, Rwanda
- 2019- Inaugural Director, Center for Human Rights and Humanitarian Studies
Brown University Watson Institute for International and Public Affairs
Providence, Rhode Island

HOSPITAL APPOINTMENTS

- 2005-2009 Resident Physician
Department of Emergency Medicine, Brigham and Women's Hospital
Boston, Massachusetts
- 2005-2009 Resident Physician
Department of Emergency Medicine, Massachusetts General Hospital
Boston, Massachusetts
- 2009-2015 Staff Physician
Department of Emergency Medicine, The Miriam Hospital
Providence, Rhode Island
- 2009- Staff Physician
Department of Emergency Medicine, Rhode Island Hospital
Providence, Rhode Island
- 2011- Staff Physician
Department of Emergency Medicine, Hasbro Children's Hospital
Providence, Rhode Island

OTHER APPOINTMENTS

- 1997 Field Manager, Clean Air Campaign
California Public Interest Research Group
Los Angeles, California
- 1998 Assistant Director, Honolulu Office
United States Public Interest Research Group

Honolulu, Hawaii

- 2000 Director, Health Care Without Harm Campaign
Physicians for Social Responsibility, Los Angeles
Los Angeles, California
- 2004 Frank C. Newman International Human Rights Intern
Human Rights Advocates
San Francisco, California
- 2005 Intern, Health Action in Crises Department
World Health Organization
Geneva, Switzerland
- 2006-2019 Editor-in-Chief
Global Emergency Medicine Literature Review
Academic Emergency Medicine Journal
- 2006-2008 Co-Director of Monitoring and Evaluation, Maternal/Infant Health Initiative,
Massachusetts General Hospital Center for Global Health
Boston, Massachusetts
- 2009-2014 Clinical Advisor for Emergency and Trauma Care
Partners In Health - Rwanda
Kigali, Rwanda
- 2009 Emergency Health Consultant
Asian University for Women,
Chittagong, Bangladesh
- 2010 External Reviewer, NIH Center for Scientific Review, External Peer Review Panel,
Fogarty International Collaborative Trauma and Injury Research Training Program
- 2010 Medical Coordinator, Harvard Humanitarian Initiative
Disaster Recovery Center
Fond Parisien, Haiti
- 2010 Emergency Medical Coordinator, International Medical Corps
Hopital de l'Université d'Etat d'Haiti (HUEH)
Port-au-Prince, Haiti
- 2011 Study Section Member, NIH Center for Scientific Review, Special Emphasis Panel,
Chronic, Non-Communicable Diseases and Disorders Across the Lifespan: Fogarty
international Research Training Award (NCD-LIFESPAN)
- 2011 Emergency Medical Coordinator, International Medical Corps
Trauma Field Hospital
Misurata, Libya
- 2012 Emergency Medical Coordinator, International Medical Corps
Refugee Camp Clinic
Juba, South Sudan
- 2012-2018 Emergency Medicine Program Coordinator
Human Resources for Health Program, Rwanda Ministry of Health
Kigali, Rwanda

2014 Emergency Medical Coordinator, International Medical Corps
Bong County Ebola Treatment Unit
Bong County, Liberia

2016 Member, World Health Organization Guideline Development Group on
Acute Supportive Care of Patients with Ebola Virus Disease in Resource Limited Settings
London, United Kingdom

2016 Emergency Medical Coordinator, International Medical Corps
Cholera Treatment Unit
Les Anglais, Haiti

2016- United Nations Office for the Coordination of Humanitarian Affairs
Civil-Military Humanitarian Coordination Officer
New York, New York

2016- Member, Steering Committee, Ebola Data Platform
Infectious Disease Data Observatory, Oxford University
Oxford, United Kingdom

2017- Member, Collaborative for Enhancing Emergency Care Research in LMICs
Center for Global Health Studies, NIH Fogarty International Center
Bethesda, Maryland

2017-2018 Consultant, Henry M. Jackson Foundation for the Advancement of Military Medicine
Joint Mobile Emerging Disease Intervention Clinical Capability (JMEDICC) Project
Fort Portal, Uganda

2017- Member, Health Research in Humanitarian Crises Planning Committee
Center for Global Health Studies, NIH Fogarty International Center
Bethesda, Maryland

2018- Member, Funding Committee
Research for Health in Humanitarian Crises (R2HC)
Cardiff, United Kingdom

2018- Member, Global Trial Board
Ebola Therapeutics Randomized Clinical Trial
Democratic Republic of Congo

UNIVERSITY COMMITTEES

1998-1999 Student Member, Board of Trustees
University of Southern California

2005 Medical Student Representative, International Programs Advisory Committee
University of California, San Francisco School of Medicine

2009- Faculty Member, Research Committee
Department of Emergency Medicine
Brown University Alpert Medical School

2015-2018 Faculty Member, Education Section
Department of Emergency Medicine

Brown University Alpert Medical School

- 2015- Co-Chair, Displaced Scholars Response Committee
Office of the Provost
Brown University
- 2016 Search Committee for Vice Chair for Academic Affairs
Department of Emergency Medicine
Brown University Alpert Medical School

PEER REVIEW

- 2008-2010 International Journal of Emergency Medicine (IJEM)
2009-2012 Disaster Medicine and Public Health Preparedness
2011- African Journal of Emergency Medicine
2012 Cincinnati Children's Hospital Evidence Based Guidelines
2014- Pediatrics
2015- Annals of Emergency Medicine
2015- PLOS Journals
2016- Bulletin of the World Health Organization
2016- Lancet Journals

MEMBERSHIP IN SOCIETIES

American Medical Association (AMA):

- 2000-2005 Member, Medical Student Section
2003-2004 Medical Student Section Delegate, AMA House of Delegates
2003-2004 Member, Governing Council, AMA Medical Student Section
2005-2009 Member, Resident and Fellows Section
2005-2006 Resident and Fellows Section Alternate Delegate, AMA House of Delegates
2005-2006 Member, Governing Council, AMA Resident and Fellows Section
2009- Member, Young Physicians Section
2009-2011 Member, Advisory Committee to the AMA Board of Trustees on GLBT Issues
2011-2013 Chair, Advisory Committee to the AMA Board of Trustees on GLBT Issues

American Public Health Association (APHA):

- 2003- Member, International Health Section

American College of Emergency Physicians (ACEP):

- 2005- Member, International Section
2006-2009 ACEP Resident Delegate, AMA House of Delegates
2009-2013 ACEP Delegate, AMA Young Physicians Section
2010-2013 ACEP Alternate Delegate, AMA House of Delegates
2011- ACEP Lead Ambassador to Rwanda

Society for Academic Emergency Medicine (SAEM):

- 2005-2011 Member, International Interest Group
2011- Member, Global Emergency Medicine Academy
2011-2012 Member, Media and Communications Committee, Global Emergency Medicine Academy
2012-2015 Vice-President, Global Emergency Medicine Academy
2014-2015 Chair, International Emergency Medicine Fellowship Consortium

ORIGINAL PUBLICATIONS IN PEER REVIEWED JOURNALS

1. **Levine AC**, Presser DZ, Rosborough S, Ghebreyesus TA, Davis MA. "Understanding Barriers to Emergency Care in Low-Income Countries: View from the Front Line." *Prehospital and Disaster Medicine* 2007; 22(5):481-4.
2. **Levine AC**, Marsh R, Nelson S, Chapman J, Tyer-Viola L, Burke TF. "Measuring Access to Emergency Obstetric Care in Rural Zambia." *International Journal of Emergency Medicine* 2008; 1(2):113-9.
3. VanRooyen MJ, Leaning J, Johnson K, Hirschfeld K, Tuller D, **Levine AC**, Hefferman J. "Employment of a livelihoods analysis to define genocide in the Darfur region of Sudan." *J Genocide Res* 2008; 10:343–358. doi: 10.1080/14623520802305727.
4. Baugh CW, **Levine AC**, Pallin DJ. "Heart Block and Nonocclusive Mesenteric Ischemia." *International Journal of Emergency Medicine* 2009; 2:171-172.
5. Kasivisvanathan V, **Levine AC**, Kasivisvanathan R, Brown D. "Case Records of the Harvard Affiliated Emergency Medicine Residencies: Dyspnea and Multiple Pulmonary Nodules." *Journal of Emergency Medicine* 2009; 37(3): 300-4.
6. Marsh R, **Levine AC**, Noble VE. "Case Records of the Harvard Affiliated Emergency Medicine Residencies: Blunt Cardiac Rupture." *Journal of Emergency Medicine* 2010; May 1.
7. **Levine AC**, Shah SP, Umulisa I, Munyaneza RB, Dushimiyimana JM, Stegmann K, Musavuli J, Ngabitsinze P, Stulac S, Epino H, Noble VE. "Ultrasound Assessment of Severe Dehydration in Children with Diarrhea and Vomiting." *Academic Emergency Medicine* 2010; 17(10): 1035-41.
8. Pringle K, Shah SP, Umulisa I, Munyaneza RB, Dushimiyimana JM, Stegmann K, Musavuli J, Ngabitsinze P, Stulac S, **Levine AC**. "Comparing the Accuracy of the Three Popular Clinical Dehydration Scales in Children with Diarrhea." *International Journal of Emergency Medicine* 2011; 4:58.
9. **Levine AC**, Shetty P. "Managing a front-line field hospital in Libya: Description of case mix and lessons learned for future humanitarian emergencies." *African Journal of Emergency Medicine* 2012; 2(2): 49-52.
10. Burkle FM, Walls AE, Heck JP, Sorensen BS, Cranmer HH, Johnson K, **Levine AC**, Kayden S, Cahill B, VanRooyen MJ. "Academic Affiliated Training Centers in Humanitarian Health, Part I: Program Characteristics and Professionalization Preferences of Centers in North America." *Prehospital and Disaster Medicine* 2013; Apr;28(2):155-62.
11. Modi P, Munyaneza RBM, Goldberg E, Choy G, Shilam R, Sagar P, Westra SJ, Nyakubyara S, Gakwerere M, Wolfman V, Vinograd A, Moore M, **Levine AC**. "Oxygen saturation can predict pediatric pneumonia in a resource-limited setting." *Journal of Emergency Medicine* 2013; 45(5): 752-60.
12. **Levine AC**, Munyaneza RM, Glavis-Bloom J, Redditt V, Cockrell HC, Kalimba B, Kabemba V, Musavuli J, Gakwerere M, Umurungi J, Shah SP, Drobac PC. "Prediction of Severe Disease in Children with Diarrhea in a Resource-Limited Setting." *PLoS ONE* 2013; 8(12): e82386. doi:10.1371/journal.pone.0082386
13. Jacquet GA, Hansoti B, **Levine AC**, Martin IBK. "Career Paths and Practice Patterns of Global Emergency Medicine Physicians: A Cross-Sectional Survey." *Journal of Emergency Medicine* 2014; pii: S0736-4679(14)00150-4. doi: 10.1016/j.jemermed.2014.01.029.

14. Jauregui J, Nelson D, Choo E, Stearn B, **Levine AC**, Liebmann O, Shah SP. "External Validation and Comparison of Three Pediatric Clinical Dehydration Scales." *PLoS ONE* 2014; 9(5):e95739. doi: 10.1371/journal.pone.0095739.
15. Mugeni C* and **Levine AC***, Munyaneza RM, Murindahabi E, Cockrell HC, Glavis-Bloom J, Nutt CT, Wagner CM, Gaju E, Rukundo A, Habimana JP, Karema C, Ngabo F, Binagwaho A. "Nationwide Implementation of Integrated Community Case Management of Childhood Illness in Rwanda." *Glob Health Sci Pract* 2014; 2(3):328-341. doi: 10.9745/GHSP-D-14-00080 (* indicates co-first authors)
16. Jauregui J, Nelson D, Choo E, Stearn B, **Levine AC**, Liebmann O, Shah SP. "The BUDDY (Bedside Ultrasound to Detect Dehydration in Youth) Study." *Critical Ultrasound Journal* 2014; 6(15). <http://www.criticalultrasoundjournal.com/content/6/1/15>.
17. **Levine AC**, Shetty PP, Henwood PC, Sabeti P, Katz JT, Vaidya A. "A Liberian Health Care Worker with Fever." *N Engl J Med* 2015; 372:e7. doi: 10.1056/NEJMimc1414101
18. **Levine AC**, Shetty PP, Burbach R, Cheemalapati S, Glavis-Bloom J, Wiskel T, Kesselly JKT. "Derivation and internal validation of the Ebola Prediction Score for risk stratification of patients with suspected Ebola Virus Disease." *Annals of Emergency Medicine*, 2015; 66(3): 285-93. doi: 10.1016/j.annemergmed.2015.03.011.
19. Modi P, Nasrin S, Hawes M, Glavis-Bloom J, Alam NH, Hossain MI, **Levine AC**. "Mid-upper arm circumference outperforms weight-based measures of nutritional status in children with diarrhea." *J Nutr*, 2015; 145(7):1582-7. pii: jn209718. doi: 10.3945/jn.114.209718.
20. Pringle K, Mackey JM, Modi P, Janeway H, Romero T, Meynard F, Perez H, Herrera R, Bendana M, Labora A, Foggie J, Partridge R, **Levine AC**. "A short trauma course for physicians in a resource-limited setting: is low-cost simulation effective?" *Injury*, 2015. doi: 10.1016/j.injury.2015.05.021.
21. George N, **Levine AC**. "Ocular Chlamydia Trachoma." *Canadian Journal of Emergency Medicine*, 2015 July 3:1.
22. **Levine AC**, Glavis-Bloom J, Modi P, Nasrin S, Rege S, Chu C, Schmid CH, Alam NH. "Empirically Derived Dehydration Scoring and Decision Tree Models for Children With Diarrhea: Assessment and Internal Validation in a Prospective Cohort Study in Dhaka, Bangladesh." *Glob Health Sci Pract* 2015; 18;3(3):405-18. doi: 10.9745/GHSP-D-15-00097.
23. Modi P, Glavis-Bloom J, Nasrin S, Guy A, Chowa EP, Dvor N, Dworkis DA, Oh M, Silvestri DM, Strasberg S, Rege S, Noble VE, Alam NH, **Levine AC**. "Accuracy of Inferior Vena Cava Ultrasound for Predicting Dehydration in Children with Acute Diarrhea in Resource-Limited Settings." *PLoS ONE*, 2016; 11(1): e0146859. doi: 10.1371/journal.pone.0146859.
24. **Levine AC**, Glavis-Bloom J, Modi P, Nasrin S, Atika B, Rege S, Robertson S, Schmid CH, Alam NH. "External Validation of the DHAKA score and comparison to the current IMCI algorithm for the assessment of dehydration in children with diarrhoea." *Lancet Glob Health*. 2016 Oct; 4(10): e744–e751. PMC5066390.
25. Steinhubl SR, Faye D, **Levine AC**, Konkright C, Wegerich SW, Konkright G. "Validation of a Portable, Deployable System for Continuous Vital Sign Monitoring Using a Multi-Parametric Wearable Sensor and Personalized Analytics in an Ebola Treatment Center." *BMJ Global Health* 2016;1:e000070. doi:10.1136/bmjgh-2016-000070.
26. Roshania R, Mallow M, Dunbar N, Mansary D, Shetty P, Lyon T, Pham K, Abad M, Shedd E, Tran AA, Cundy S, **Levine AC**. "Successful implementation of a multi-country Ebola Virus Disease clinical surveillance and data collection system in West Africa: Findings and lessons learned." *Glob Health Sci Pract* 2016; 4(3): 394-409.

27. Kearney AS, Kabeja LM, George N, Karim N, Aluisio AR, Mutabazi Z, Uwitonze JE, Nyinawankusi JD, Byiringiro JC, **Levine AC**. "Development of a trauma and emergency database in Kigali, Rwanda." *Afr J Emerg Med*, 2016. <http://dx.doi.org/10.1016/j.afjem.2016.10.002>.
28. Mbanjumucyo G, George N, Kearney A, Karim N, Aluisio AR, Mutabazi Z, Umuhire O, Enumah S, Byiringiro JC, **Levine AC**. "Epidemiology of injuries and outcomes among trauma patients receiving prehospital care at a tertiary teaching hospital in Kigali, Rwanda." *Afr J Emerg Med*, 2016. <http://dx.doi.org/10.1016/j.afjem.2016.10.001>.
29. Aluisio AR, Teicher C, Wiskel T, Guy A, **Levine AC**. "Focused Training for Humanitarian Responders in Regional Anesthesia Techniques for a Planned Randomized Controlled Trial in a Disaster Setting." *PLOS Currents Disasters*, 2016. doi:10.1371/currents.dis.e75f9f9d977ac8adeddb381e3948a04.
30. PREVAIL II Writing Group (Davey RT Jr, Dodd L, Proschan MA, Neaton J, Neuhaus Nordwall J, Koopmeiners JS, Beigel J, Tierney J, Lane HC, Fauci AS, Massaquoi MBF, Sahr F, Malvy D) on behalf of the **Multi-National PREVAIL II Study Team**. "A Randomized, Controlled Trial of ZMapp for Ebola Virus Infection." *N Engl J Med* 2016 Oct 13; 375(15): 1448-1456.
31. Smit MA, Michelow IC, Glavis-Bloom J, Wolfman V, **Levine AC**. "Characteristics and Outcomes of Pediatric Patients with Ebola Virus Disease Admitted to Treatment Units in Liberia and Sierra Leone: A Retrospective Cohort Study." *Clinical Infectious Diseases*, 2017; 64(3):243–9.
32. Aluisio AR, Umuhire OF, Mbanjumucyo G, George N, Kearney A, Karim N, Nyinawankusi JD, Uwitonze E, Enumah S, Scott JW, Mutabazi Z, Ntakiyiruta G, Jayaraman S, Riviello R, Byiringiro JC, **Levine AC**. "Epidemiologic Characteristics of Pediatric Trauma Patients Receiving Prehospital Care in Kigali, Rwanda." *Pediatric Emergency Care*, 2017. doi: 10.1097/PEC.0000000000001045
33. Waxman M, Aluisio AR, Rege S, **Levine AC**. "Baseline Characteristics and Survival of Patients Infected with Malaria and Ebola Virus in Sierra Leone." *Lancet Infectious Diseases*, 2017. doi: 10.1016/S1473-3099(17)30112-3.
34. Henwood PC, Bebell LM, Roshania R, Wolfman V, Mallow M, Kalyanpur A, **Levine AC**. "Ebola Virus Disease in Pregnancy: A Retrospective Cohort Study of Patients Managed at Five Ebola Treatment Units in West Africa." *Clinical Infectious Diseases*, 2017; doi: 10.1093/cid/cix290.
35. Wanjiku G, Janeway H, Foggie J, Partridge R, Wang Y, Kearney A, **Levine AC**, Carter J. "Assessing the Impact of an Emergency Trauma Course For Senior Medical Students in Kenya." *Afr J Emerg Med*, 2017; doi: 10.1016/j.afjem.2017.04.013.
36. Skrable K*, Roshania R*, Mallow M, Wolfman V, Siakor M, **Levine AC**. "The Natural History of Ebola Virus Disease among Patients Managed in Five Ebola Treatment Units in West Africa." *PLOS Neglected Tropical Diseases*, 2017; 11(7): e0005700. doi: 10.1371/journal.pntd.0005700
37. Skrable K, Bilal S, Sharma R, Robertson S, Ashenafi Y, Nasrin S, Alam NH, **Levine AC**. "The effects of malnutrition and diarrhea type on the accuracy of clinical signs of dehydration in children under five: A prospective cohort study in Bangladesh." *American Journal of Tropical Medicine and Hygiene*, 2017. doi: 10.4269/ajtmh.17-0277
38. Mackenzie DC, Nasrin S, Atika B, Modi P, Alam NH, **Levine AC**. "Carotid flow time test performance for the detection of dehydration in children with diarrhea." *Journal of Ultrasound in Medicine*, 2017.
39. Aluisio AR, Gerbern S, Wiskel T, Mutabazi ZA, Umuhire OF Ch'ng CC, Rudd KE Nyinawankusi JD, Byiringiro JC, **Levine AC**. "Mortality Outcomes Based on ED qSOFA Score and HIV Status in a Developing Low Income Country." *American Journal of Emergency Medicine*, 2018. doi.org/10.1016/j.afjem.2018.03.014

40. Weissbecker I, Roshania R, Cavallera V, Mallow M, Leichner A, Antigua J, Gao K, **Levine AC**. "Integrating psychosocial support at Ebola treatment units in Sierra Leone and Liberia." *Intervention*, 2018. doi: 10.4103/INTV.INTV_8_18
41. Bilal S, Nelson E, Meisner L, Alam M, Al Amin SU, Ashenafi Y, Teegala S, Khan MA, Alam NH, **Levine AC**. "Evaluation of standard and mobile health (mHealth)-supported clinical diagnostic tools for assessing dehydration in patients with diarrhea in rural Bangladesh." *American Journal of Tropical Medicine and Hygiene*, 2018;99(1):171-179. doi: 10.4269/ajtmh.17-0648
42. Rudd KE, Seymour CW, Aluisio AR, Augustin ME, Bagenda DS, Beane A, Byiringiro JC, Chang CH, Colas LN, Day NPJ, De Silva AP, Dondorp AM, Dünser MW, Faiz MA, Grant DS, Haniffa R, Hao NV, Kennedy JN, **Levine AC**, Limmathurotsakul D, Mohanty S, Nosten F, Papali A, Patterson AJ, Schieffelin JS, Shaffer JG, Thuy DB, Thwaites CL, Urayenzeza O, White NJ, West TE, Angus DC for the Sepsis Assessment and Identification in Low Resource Settings (SAILORS) Collaboration. "Association of the Quick Sequential (Sepsis-Related) Organ Failure Assessment (qSOFA) Score with Excess Hospital Mortality in Adults with Suspected Infection in Low- and Middle-Income Countries." *JAMA*, 2018. doi:10.1001/jama.2018.6229
43. Mallow M, Gary L, Jeng T, Bongomin B, Aschkenasy MT, Wallis P, Cranmer HH, Debasu E, Levine AC. "WASH Activities at Two Ebola Treatment Units in Sierra Leone." *PLOS ONE* 13(5): e0198235. <https://doi.org/10.1371/journal.pone>
44. Koeller E, Robertson SE, Garbern SC, Monk G, Nasrin S, Alam NH, **Levine AC**. "Accuracy of a Combined Model Using Both Clinical Variables and Ultrasound Measurement for Predicting Dehydration in Children with Acute Diarrhea in a Resource-Limited Setting." *Journal of Ultrasound in Medicine*, 2018; 00:1-9. doi:10.1002/jum.14752
45. Peters JL, Cho DK, Aluisio AR, Kennedy SB, Massaquoi M, Sahr F, Brown J, Perera S, **Levine AC**. "Environmental Temperature and Mortality of Patients with Ebola Virus Disease in Sierra Leone and Liberia, 2014-2015: A Retrospective Cohort Study." *Tropical Medicine and International Health*, 2018. doi: 10.1111/tmi.13166
46. Aluisio AR, Barry MA, Martin KD, Mbanjumucyo G, Mutabazi ZA, Karim N, Moresky RT, Nyinawankusi JD, Byiringiro JC, **Levine AC**. "Impact of Emergency Medicine Training and Implementation on Mortality Outcomes in Kigali, Rwanda: An Interrupted Time-Series Cohort Study." *African Journal of Emergency Medicine*, 2018. doi: 10.1016/j.afjem.2018.10.002
47. Schnadower D, Tarr PI, Casper TC, Gorelick MH, Dean JM, O'Connell KJ, Mahajan P, **Levine AC**, Bhatt SR, Roskind CG, Powell EC, Rogers AJ, Vance C, Sapien RE, Olsen C, Metheney M, Dickey VP, Hall-Moore C, Freedman SB. "Lactobacillus rhamnosus GG versus Placebo for Acute Gastroenteritis in Children." *N Engl J Med* 2018; 379:2002-14. doi: 10.1056/NEJMoa1802598
48. Jarman AF, Long SE, Robertson SE, Nasrin S, Alam NH, McGregor, AJ, **Levine, AC**. "Gender Differences in Acute Pediatric Diarrhea: A Secondary Analysis of the DHAKA Study." *Journal of Epidemiology and Global Health*, 2018; 8(1-2): 42-47. doi: 10.2991/j.jegh.2018.08.102
49. Aluisio AR, Yam D, Peters JL, Cho DK, Perera SM, Kennedy SB, Massaquoi M, Sahr F, Smit MA, Liu T, **Levine AC**. "Impact of Intravenous Fluid Therapy on Survival Among Patients with Ebola Virus Disease: An International Multisite Retrospective Cohort Study." *Clinical Infectious Diseases*, 2019. doi: 10.1093/cid/ciz344
50. Garbern SC, Yam D, Aluisio AR, Cho DK, Kennedy SB, Massaquoi M, Sahr F, Perera SM, **Levine AC**, Liu T. "Effect of Mass Artesunate-Amodiaquine Distribution on Mortality of Patients with Ebola Virus Disease during West African Outbreak." *Open Forum Infectious Diseases*, 2019. doi: 10.1093/ofid/ofz250

51. Garbern SC, Mbanjumucyo G, Umuhoza C, Sharma VK, Mackey J, Tang O, Martin KD, Twagirumukiza FR, Rosman SL, McCall N, Wegerich SW, **Levine AC**. "Validation of a Wearable Biosensor Device for Vital Sign Monitoring in Septic Emergency Department Patients in Rwanda." *Digital Health*, 2019; (Accepted)
52. Colubri A, Hartley MA, Siakor M, Wolfman V, Felix A, Sesay T, Shaffer JG, Garry RF, Grant DS, **Levine AC**, Sabeti PC. "Machine-Learning prognostic models from the 2014-16 Ebola outbreak: data harmonization challenges, validation strategies, and mHealth applications." *EClinicalMedicine*, 2019; (Accepted)
53. Aluisio AR, Yam D, Peters JL, Able L, Cho DK, Perera SM, Kennedy SB, Massaquoi M, Sahr F, Garbern S, Locks L, Liu T, **Levine AC**. "Impact of Vitamin A Supplementation on Mortality in Ebola Virus Disease: A Multisite Propensity-Matched Cohort Study." *Journal of Nutrition*, 2019; doi: 10.1093/jn/nxz142 (Accepted)

OTHER PEER REVIEWED PUBLICATIONS

1. Widge AS, Goutman S, **Levine A**, Ravindranath D, Shapiro LT, Walsh W, Watson M, Zimmerman H. "Effects of Medical Education Debt on Access to Health Care." *CONTEXT* 2006; 1:22-32.
2. **Levine AC**, Gadiraju S, Goel A, Johar S, King R, Arnold K. "International Emergency Medicine: A review of the literature." *Academic Emergency Medicine* 2007; 14(2):182-3.
3. **Levine AC**, Goel A, Keay CR, Lay C, Melnick ER, Nielson JA, Becker J, Khaleghi M, Chicharoen N, Johar S, Lippert S, Tebb ZD, Rosborough S, Arnold K. "International Emergency Medicine: A Review of the Literature from 2006." *Academic Emergency Medicine* 2007; 14(12):1190-3.
4. **Levine AC**, Becker J, Lippert S, Rosborough S, Arnold K on behalf of the EMRA International Emergency Medicine Literature Review Group. "International Emergency Medicine: A Review of the Literature from 2007." *Academic Emergency Medicine* 2008; 15:860-5.
5. Lippert S, **Levine AC**, Becker J, Foran M, Rosborough S, Arnold K on behalf of the International Emergency Medicine Literature Review Group. "International Emergency Medicine: A Review of the Literature from 2008." *Academic Emergency Medicine* 2009; 16(12): 1335-40.
6. **Levine AC**, Adusumilli J, Landrigan CP. "Effects of Reducing or Eliminating Resident Work Shifts over 16 Hours: A Systematic Review." *Sleep*, 2010; 33(8):1043-53.
7. Foran M, **Levine AC**, Lippert S, Chan J, Aschkenasy M, Arnold K, Rosborough S, on behalf of the International Emergency Medicine Literature Review Group. "International Emergency Medicine: A Review of the Literature from 2009." *Academic Emergency Medicine* 2011; 18:86–92.
8. Aschkenasy M, Arnold K, Foran M, Lippert S, Schroeder ED, Bertsch K, **Levine AC**, on behalf of the International Emergency Medicine Literature Review Group. "International Emergency Medicine: A Review of the Literature from 2010." *Academic Emergency Medicine* 2011; 18:872–879.
9. Sippel S, Muruganandan KM, **Levine AC**, Shah S. "Review Article: Use of ultrasound in the developing world." *International Journal of Emergency Medicine* 2011; 4:72.
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NON-PEER REVIEWED PUBLICATIONS

1. **Levine AC**. “Code Blue: Racial Disparities in our Healthcare System.” *Resident and Staff Physician* 2005; October.
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5. **Levine AC**. “Trauma Care in the Arab Spring.” *Emergency Physicians Monthly* 2011; 18(10): 42-7.
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15. **Levine AC.** "The Chance to Save a Life." *Huffington Post World Page*, June 9, 2013.
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18. **Levine AC.** "Crash Course." *Huffington Post World Page*, November 4, 2013.
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21. **Levine AC.** "Heads You Live, Tails You Don't." *Annals of Emergency Medicine* 2014; 63(5): 646-7.
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30. **Levine AC.** "The RAPID Study: Research in Crisis." *Research for Health in Humanitarian Crises Blog Post*, July 10, 2016.
31. Nelson E, Levine AC. "Creating Excellence for All." *Diarrhea Innovations Group Blog Post*, September 14, 2017.
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PUBLICATIONS SUBMITTED OR IN PREPARATION

1. Yam D, Aluisio AR, Perera SM, Peters JL, Cho DK, Kennedy SB, Massaquoi M, Sahr F, Smit MA, Locks L, Liu T, **Levine AC.** "Association Between Multivitamin Supplementation and Mortality Among Patients with Ebola Virus Disease: An International Multisite Cohort Study." *BMJ Open*, 2019;

2. Uwamahoro C, Aluisio AR, Chu E, Reibling E, Mutabazi Z, Karim N, Nyinawankusi JD, Byiringiro JC, **Levine AC**, Guptill M. "Evaluation of a Modified South African Triage Score as a Predictor of Patient Disposition at a Tertiary Hospital in Rwanda." *African Journal of Emergency Medicine*, 2019;
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4. Mattson P*, Nteziryayo E*, Aluisio AR, Henry M, Rosenberg N, Mutabazi ZA, Nyinawankusi JD, Byiringiro JC, **Levine AC**, Karim N. "Musculoskeletal injuries and outcomes pre- and post-Emergency Medicine Training Program." *Western Journal of Emergency Medicine*, 2019;
5. Schnadower D, Sapien RE, Casper TC, Vance C, Tarr PI, O'Connell KJ, **Levine AC**, Roskind CG, Rogers AJ, Bhatt SR, Mahajan P, Powell EC, Olsen CS, Gorelick MH, Dean JM, Freedman SB on behalf of the PECARN Network. "Impact of Age, Weight and Dose on the Clinical Response to Probiotics in Children with Acute Gastroenteritis." *JAMA Pediatrics*, 2019;
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ABSTRACTS

1. **Levine AC**, Presser DZ, Rosborough SN, Ghebreyesus TA, Davis MA. "Understanding Barriers to Emergency Care in Low Income Countries." *Annals of Emergency Medicine* Vol. 48(A308). Presented at the American College of Emergency Physicians Scientific Assembly, New Orleans, Louisiana, 10/2006.
2. **Levine AC**, Marsh R, Nelson S, Chapman J. "Measuring Access to Emergency Obstetric Care in Rural Zambia." Presented at the Massachusetts Medical Society Medical Student and Resident Poster Symposium, Waltham, Massachusetts, 4/2007.
3. Choi B, Nelson BP, Noble VE, **Levine A**. "Ectopic Pregnancy Evaluation in the ED: Impact of a Management Algorithm Poster on Resident Education." Presented at the Mediterranean Emergency Medicine Congress (MEMC IV), Sorrento, Italy, 9/2007.
4. Noble VE, Capp R, Higgins C, **Levine A**, Liteplo A. "Evaluation of the 8-Zone Lung Ultrasound Technique." Presented at the Mediterranean Emergency Medicine Congress (MEMC IV), Sorrento, Italy, 9/2007.
5. **Levine AC**, Marsh R, Nelson S, Chapman J, Burke TF. "Measuring Access to Emergency Obstetric Care in Rural Zambia." *Annals of Emergency Medicine* Vol. 51(A19). Presented at the 12th International Conference on Emergency Medicine, San Francisco, USA, 4/2008.
6. **Levine AC**, Lozner A, Nelson B, Demoya MA, Liteplo A, Noble V. "Detection of Pneumothorax in Penetrating Injury: Thoracic Rapid Ultrasound in Trauma (TRUST)." Presented at Massachusetts General Hospital Clinical Research Day, Boston, Massachusetts, 5/2008.
7. **Levine AC**, Marsh R, Nelson S, Chapman J, Burke TF. "Measuring Access to Emergency Obstetric Care in Rural Zambia." Presented at the Massachusetts General Hospital Clinical Research Day, Boston, Massachusetts, 5/2008.
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Vol. 15, No. 5, p. S115(A285). Presented at the Society for Academic Emergency Medicine (SAEM) Scientific Assembly, Washington, DC, USA, 05/2008.

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11. Nelson BP, Noble VE, Choi J, Truong T, **Levine AC**. "Improved Resident Knowledge and Adherence Care Guidelines Using an Algorithm for Ectopic Pregnancy Evaluation." *Annals of Emergency Medicine* 2009; 54(3): S34(A106). Presented at the American College of Emergency Physicians Scientific Assembly, Boston MA, 10/2009.
12. **Levine AC**, Shah S, Noble VE, Epino H. "Ultrasound Assessment of Dehydration in Children with Gastroenteritis." *Annals of Emergency Medicine* 2009; 54(3): S91(A289). Presented at the American College of Emergency Physicians Scientific Assembly, Boston MA, 10/2009.
13. **Levine AC**, Greenough PG, Patel P, Qasrawi R, Abdeen Z. "Use of coping strategies to detect households at risk for malnutrition during humanitarian emergencies." Presented at the American Public Health Association 137th Annual Meeting, Philadelphia, PA, 11/2009.
14. **Levine AC**, Noble VE. "Ultrasound Assessment of Severe Dehydration in Children with Diarrhea." Presented at the 6th World Congress on Ultrasound in Emergency and Critical Care, Rome, Italy, 10/2010.
15. Pringle K, **Levine AC**. "Comparing The Accuracy Of The 3 Popular Clinical Dehydration Scales In Children With Diarrhea." Presented at the New England Regional SAEM Conference, Hartford, CT, USA, 4/2011 and the SAEM Scientific Assembly, Boston, MA, USA, 6/2011.
16. Kabeza, A, **Levine AC**. "Designing Rwanda's First Emergency Medicine Residency." Presented at Emergency Medicine Society of South Africa International Emergency Medicine Conference, Cape Town, South Africa, 11/2011.
17. Schroeder ED, **Levine AC**, Chan J, Jacquet G, Kayden, SR. "The Global Emergency Medicine Literature Review: A Review of the Last Five Years." *Annals of Emergency Medicine* 2012. Presented at the International Conference on Emergency Medicine, Dublin, Ireland, 6/2012.
18. Nelson DA, Jauregui JM, Stearns B, Choo E, **Levine AC**, Liebmann O, Shah S. "Bedside Ultrasound for the Detection of Dehydration in Youth (BUDDY)." *Academic Emergency Medicine* 2013; 20(5): S214-5. Presented at the Society for Academic Emergency Medicine Annual Meeting, Atlanta, GA, 5/2013.
19. Modi P, Goldberg E, Munyaneza RBM, **Levine A**. "Assessment of Pneumonia in Children in Resource Limited Settings." *Academic Emergency Medicine* 2013; 20(5): S147. Presented at the Society for Academic Emergency Medicine Annual Meeting, Atlanta, GA, 5/2013.
20. Jauregui JM, Nelson DA, Stearns B, Choo E, **Levine AC**, Liebmann O, Shah S. "External Validation and Comparison of Three Popular Clinical Dehydration Scales in Children." *Academic Emergency Medicine* 2013; 20(5): S193-4. Presented at the Society for Academic Emergency Medicine Annual Meeting, Atlanta, GA, 5/2013.
21. Pringle K, Mackey J, Ruskis J, Modi P, Foggie J, **Levine AC**. "A Short Trauma Course for Physicians in a Resource-Limited Setting: Is Low-Cost Simulation Effective?" *Annals of Emergency Medicine*

2013; 62(4): S100(A274). Presented at the American College of Emergency Physicians Scientific Assembly, Seattle, WA, 10/2013.

22. **Levine AC**, Mugeni C, Munyaneza RM, Murindahabi E, Cockrell HC, Glavis-Bloom J, Nutt CT, Wagner CM, Karema C, Gaju E, Rukundo A, Habimana JP, Ngabo F, Binagwaho A. "Nationwide Implementation of Integrated Community Case Management of Childhood Illness in Rwanda: Impact on Mortality and Health Facility Utilization." Presented as a Roundtable Discussion at the American Public Health Association Annual Meeting, Boston, MA, 11/2013.
23. **Levine AC**, Munyaneza RM, Glavis-Bloom J, Reddit V, Cockrell HC, Kalimba B, Kabemba V, Gakwerere M, Umurungi J, Shah SP, Drobac PC. "Assessing the accuracy of three clinical dehydration scales in children with diarrhea in a resource-limited setting." Presented at the American Public Health Association Annual Meeting, Boston, MA, 11/2013.
24. **Levine AC**, Glavis-Bloom J, Modi P, Nasrin S, Rege S, Chu C, Schmid CH, Alam NH. "Derivation and internal validation of the DHAKA Score and DHAKA Tree for predicting dehydration severity in children with acute diarrhea." American College of Emergency Physicians Scientific Assembly, Boston, MA, 10/2015. DOI: 10.1016/j.annemergmed.2015.07.246
25. **Levine AC**, Glavis-Bloom J, Modi P, Nasrin S, Atika B, Rege S, Schmid CH, Alam NH. "External Validation of the DHAKA Score for Diagnosing Severe Dehydration in Children with Acute Diarrhea in Resource-Limited Settings." Presented at the International Conference on Emergency Medicine, Cape Town, South Africa, 4/2016.
26. Roshania R, Mallow M, Dunbar N, Mansary D, Shetty P, Lyon T, Pham K, Abad M, Shedd E, Tran AA, Cundy S, Levine AC. "Implementation of a multi-country Ebola Virus Disease clinical surveillance and data collection system in West Africa: Findings and lessons learned." Presented at the American Society of Tropical Medicine and Hygiene Meeting, Atlanta, GA, 11/2016.
27. Aluisio AR, Mbanjumucyo G, Barry MA, Karim N, **Levine AC**. "Impact of Implementation of Emergency Medicine Training on Emergency Department Mortality in Kigali, Rwanda: An Interrupted Time-Series Quasi-Experimental Design." *Annals of Emergency Medicine*, 2017; 70(4S): S78. Presented at the American College of Emergency Physicians Scientific Assembly, Washington DC, 10/2017.
28. Aluisio AR, Gerbern S, Wiskel T, Mutabazi ZA, Umuhire OF Ch'ng CC, Rudd KE Nyinawankusi JD, Byiringiro JC, **Levine AC**. "The quick Sepsis-related Organ Failure Assessment Score Predicts Emergency Department and Hospital Mortality Among Emergency Care Patients in Kigali, Rwanda: A Retrospective Cohort Study." Presented at the Society for Academic Emergency Medicine Annual Meeting, Indianapolis, IN, 05/2018.
29. Aluisio AR, Yam D, Peters JL, Cho DK, Perera SM, Kennedy SB, Sahr F, Garbern S, Liu T, **Levine AC**. "Association Between Vitamin A Supplementation and Mortality Among Patients with Ebola Virus Disease: An International Multisite Cohort Study." Presented at the WADEM Congress on Disaster and Emergency Medicine, Brisbane, Australia, 05/2019.
30. Garbern SC, Mbanjumucyo G, Umuhoza C, Sharma VK, Mackey J, Martin KD, Twagirumukiza FR, Rosman SL, McCall N, Wegerich SW, **Levine AC**. "Evaluation of a biosensor device for vital sign monitoring in septic ED patients in Rwanda." Presented at the WADEM Congress on Disaster and Emergency Medicine, Brisbane, Australia, 05/2019.

INVITED PRESENTATIONS

Regional

1. Massachusetts College of Emergency Physicians. "Understanding Barriers to Emergency Care in Low-Income Countries." Waltham, Massachusetts, 2006.
2. Harvard Humanitarian Studies Course. "Goma Cholera Epidemic." Boston, Massachusetts, 2009.
3. Massachusetts Medical Society Global Health Conference. "Incorporating International Health into Your Professional Career." Waltham, Massachusetts, 2010.
4. Humanitarian Studies Course. "Management of Communicable Disease in Humanitarian Emergencies." Boston, Massachusetts, 2010.
5. Partners in Health Three Pillars Research Seminar. "Ultrasound Assessment of Dehydration in Children with Diarrhea." Boston, Massachusetts, 2010.
6. Harvard Humanitarian Studies Course. "Outbreak Control Simulation." Boston, Massachusetts, 2011.
7. New England Regional Society for Academic Emergency Medicine Meeting. "Moderator, Lightning Orals Session." Providence, Rhode Island, 2013.
8. Northeastern University. "Ending Ebola: Strategies for Combatting an Epidemic." Boston, Massachusetts, 2014.
9. Boston University Department of Emergency Medicine Grand Rounds. "Ending Ebola: Strategies for Combatting an Epidemic." Boston, Massachusetts, 2014.
10. Harvard Medical School Department of Emergency Medicine Grand Rounds. "Learning from Ebola: Strategies for Combatting an Epidemic." Boston, Massachusetts, 2015.
11. Jamestown Arts Center Distinguished Speaker Series. "Lessons from Ebola for Future Outbreaks." Jamestown, Rhode Island, 2016.
12. Future of Outbreak Response Symposium. "Lessons from Ebola: Towards an Evidence-Based Humanitarian Response." Broad Institute, Cambridge, Massachusetts, 2016.
13. New England Society of Disaster Medicine Meeting. "Lessons from Ebola: Towards an Evidence-Based Humanitarian Response." Providence, Rhode Island, 2016.
14. Brown University Global Health Research Day. "Keynote Speaker: Humanitarian Emergencies in Resource-Limited Settings." Providence, Rhode Island, 2017.
15. United States Naval War College. "Humanitarian Emergencies in Resource-Limited Settings." Newport, Rhode Island, 2017.
16. Tufts University. "Humanitarian Emergencies in Resource-Limited Settings." Medford, MA, 2018.
17. United States Naval War College. "Humanitarian Emergencies in Resource-Limited Settings." Newport, Rhode Island, 2018.

National

1. American Medical Association Medical Student Section Region 5 Conference. "Health Economics 101." Columbus, Ohio, 2004.
2. Society for Academic Emergency Medicine Scientific Assembly. "International Emergency Medicine: A Review of the Literature." San Francisco, California, 2006.

3. Global Health Emergencies Course, Cornell University Medical Center. "Outbreak Control in Humanitarian Emergencies" & "Water Security, Sanitation, and Hygiene." New York, New York, 2011.
4. Jacobi/Montefiore Department of Emergency Medicine Resident Conference. "International Emergency Medicine." New York, New York, 2011.
5. SUNY Stony Brook Department of Emergency Medicine Grand Rounds. "Concepts in International Emergency Medicine." Stony Brook, New York, 2011.
6. Global Health Emergencies Course, Cornell University Medical Center. "Case Study: The Aftermath of Goma" & "Outbreak Control in Humanitarian Emergencies" & "Water Security, Sanitation, and Hygiene." New York, New York, 2012.
7. Society for Academic Emergency Medicine Scientific Assembly. "More Than Just a Hobby: Building an Academic Career in Global Emergency Medicine." Chicago, Illinois, 2012.
8. American Institute for Ultrasound in Medicine Annual Convention. "Ultrasound Research in Resource Limited Settings." New York, New York, 2013.
9. Academic Emergency Medicine 2013 Consensus Conference on Global Health and Emergency Care: A Research Agenda. "Plenary Presentation - An Evidence-Based Summary of the Trajectory of Global Emergency Care Research." Atlanta, Georgia, 2013.
10. Society for Academic Emergency Medicine Scientific Assembly. "The Top 10 Global Emergency Medicine Articles from 2012: Highlights from the Global Emergency Medicine Literature Review." Atlanta, Georgia, 2013.
11. Global Health Emergencies Course, Cornell University Medical Center. "Health and Outbreak Control" & "Water Security, Sanitation, and Hygiene" & "SPHERE Simulation." New York, New York, 2013.
12. Global Health Speaker Series, University of Pennsylvania. "Complex Humanitarian Emergencies." Philadelphia, Pennsylvania, 2013.
13. Society for Academic Emergency Medicine Scientific Assembly. "The Top 10 Global Emergency Medicine Articles from 2013: Highlights from the Global Emergency Medicine Literature Review" & "Federal Funding Streams for Global Health Research" & "Ultrasound in Resource Limited Settings: Discussion of use, benefits, research and sustainable program design." Dallas, Texas, 2014.
14. Global Health Speaker Series, University of Pennsylvania. "Ending Ebola: Strategies for Combatting an Epidemic." Philadelphia, Pennsylvania, 2014.
15. Institute of Medicine Forum on Public Private Partnerships for Global Health and Safety. "Increasing Impact and Effectiveness: What Lessons Are Being Learned from the Global Response to the Ebola Outbreak?" Washington, DC, 2014.
16. Columbia University Mailman School of Public Health. "Panel Discussion on Ebola Response – Perspectives from the Field." New York, New York, 2015.
17. Global Health Emergencies Course, Cornell University Medical Center. "Communicable Diseases and Outbreak Control" & "Ebola Case Study." New York, New York, 2015.
18. New York Symposium on International Emergency Medicine. "Learning from Ebola: Towards an Evidence-Based Humanitarian Response." New York, New York, 2015.

19. ETEC Severity Score Workshop. "Developing the Dehydration: Assessing Kids Accurately (DHAKA) Score." Washington, DC, 2016.
20. The National Academies of Science, Engineering, and Medicine. "Panel: Experiences and Challenges Faced in Disaster Research." Washington, DC, 2016.
21. The Rand Corporation. "Lessons from Ebola: Towards an Evidence-Based Humanitarian Response." Los Angeles, CA, 2016.
22. Global Emergency Medicine Think Tank Keynote Address, Society for Academic Emergency Medicine Annual Meeting. "Trends in Global Emergency Medicine Research and Funding." New Orleans, LA, 2016.
23. Society for Academic Emergency Medicine Annual Meeting Didactic Presentation. "So you Want to Be a Global Health Researcher?" New Orleans, LA, 2016.
24. American Society for Tropical Medicine and Hygiene Annual Meeting. "Panel: Data Sharing for Tropical Medicine." Atlanta, GA, 2016.
25. Northwestern University Department of Emergency Medicine Grand Rounds. "Lessons from Ebola: Towards an Evidence-Based Humanitarian Response." Chicago, IL, 2017.
26. Diarrhea Innovations Group. "Accurate and reliable clinical diagnostic models for assessing dehydration in patients with acute diarrhea and translating those models into mobile phone applications that can help clinicians in resource-limited settings." Seattle, WA, 2017.

International

1. Zambia Medical Association Faculty of General Practitioners. "Maternal and Infant Health." Lusaka, Zambia, 2007.
2. Butaro District Hospital Grand Rounds. "Trauma Management at the District Hospital." Butaro, Rwanda, 2011.
3. Rwinkwavu District Hospital Grand Rounds. "Basic Life Support in Rwanda." Rwinkwavu, Rwanda, 2011.
4. Kirehe District Hospital Grand Rounds. "Assessment of Pneumonia in Children." Kirehe, Rwanda, 2012.
5. Butaro District Hospital Grand Rounds. "Acute Poisoning in Rwanda." Butaro, Rwanda, 2012.
6. Rwinkwavu District Hospital Grand Rounds. "Assessment of Severe Dehydration in Children with Diarrhea." Rwinkwavu, Rwanda, 2013.
7. Kirehe District Hospital Grand Rounds. "Management of Acute Head Injury in Rwanda." Kirehe, Rwanda, 2013.
8. International Center for Diarrheal Disease Research, Bangladesh. "The Dehydration: Assessing Kids Accurately (DHAKA) Study." Dhaka, Bangladesh, 2014.
9. African Conference on Emergency Medicine. "Keynote Address - Ebola Rising: Impact and Implications of the Ebola Virus Disease Epidemic on Emergency Care in Africa" & "Top Global Emergency Medicine Articles of 2013: Highlights from the Global Emergency Medicine Literature Review" & "Funding Global Emergency Medicine Research." Addis Ababa, Ethiopia, 2014.

10. World Health Organization Ebola Science Committee Meeting. "Learning from Ebola: Towards an Evidence-Based Humanitarian Response." Montreux, Switzerland, 2015.
11. World Health Organization Meeting on Clinical Aspects of Ebola Virus Disease. "Systematic Data Collection and Data Sharing." Rome, Italy, 2015.
12. World Health Organization Ebola Research and Development Summit. "Panel Discussion: Establishing and using networks/platforms for collaborations for effective R&D responses in times of need." Geneva, Switzerland, 2015.
13. Society for Clinical Trials Annual Meeting. "Panel Discussion: Courage, Controversy, and Clinical Trials: Lessons from the Ebola Epidemic." Montreal, Canada, 2016
14. Rwanda Emergency Care Association Annual Conference. "Keynote Speaker: Humanitarian Emergencies in Resource-Limited Settings." Kigali, Rwanda, 2017.

GRANTS

Active

1. NIH National Institute of Diabetes and Digestive and Kidney Diseases 09/2018-06/2023
Development of a novel mobile health tool for age-specific dehydration assessment and management in patients with diarrheal disease
Grant Number: R01DK116163
Role: Principal Investigator \$2,809,435 total costs
2. NIH National Institute of Allergy and Infectious Disease 06/2017-05/2019
Evaluation of Management Strategies for Maximizing Supportive Care for Patients with Ebola Virus Disease
Grant Number: R03AI132801
Role: Principal Investigator \$179,200 total costs
3. United States Centers for Disease Control and Prevention 06/2017-06/2022
Global Emergency Response and Recovery Partner Engagement: Expanding Efforts and Strategies to Improve Rapid Response to Public Health Emergencies Globally
Grant Number: NU2GGH002058
Role: Principal Investigator \$750,000 total year one costs
4. Carnegie Corporation of New York 04/2018-04/2020
Civilian-Military Coordination in Humanitarian Response
Grant Number: R-17-55582
Role: Co-Investigator \$175,000 total costs
5. Bill and Melinda Gates Foundation 10/2018-04/2020
Development of a Bayesian diagnostic for etiological management of pediatric diarrhea
Grant Number: OPP1198876
Role: Co-Investigator \$74,499 total subaward costs

Completed

1. Harvard Affiliated Emergency Medicine Residency 07/2008-06/2009
Maryanne Povinelli Humanism Award
International Emergency Ultrasound: Training and Research in Rwanda
Role: Principal Investigator \$2000 total costs

2. Rhode Island Foundation 06/2010-05/2012
Assessment of Severe Dehydration in Children with Diarrhea Using Clinical Exam
Role: Principal Investigator \$15,000 total costs
3. Thrasher Foundation 06/2010-05/2012
Early Career Award
Assessment of Severe Dehydration in Children with Diarrhea Using Ultrasound
Role: Principal Investigator \$25,000 total costs
4. Brown University Department of Emergency Medicine 10/2010-04/2012
Junior Faculty Research Development Grant
Assessment of Severe Dehydration in Children with Diarrhea Using Pulse Oximetry Waveform Analysis
Role: Principal Investigator \$46,086 total costs
6. Research for Health in Humanitarian Crises (R2HC) 04/2014-09/2016
Rapid Response Grant
Regional Anesthesia for Painful Injuries After Disasters (RAPID)
Role: Co-Principal Investigator £122,650 total costs
7. International Medical Corps 05/2015-12/2016
Ebola Research Collaborative
Role: Principal Investigator \$398,064 total costs
8. NIH Fogarty International Center 09/2012-09/2017
Assessment of Dehydration in Children with Diarrhea in Resource-Limited Settings
Grant Number: K01TW009208
Role: Principal Investigator \$679,529 total costs
9. United States Centers for Disease Control and Prevention/
Global Fund for HIV/AIDS, Tuberculosis, and Malaria 05/2012-06/2018
Rwanda Human Resources for Health Program
Role: Site Program Director \$1,046,722 total subcontract
10. NIH National Institute of Child Health and Development 12/2013-11/2018
Impact of Emergency Department Probiotic Treatment of Pediatric Gastroenteritis
Grant Number: R01HD071915
Role: Site PI / Co-Investigator \$67,730 total subcontract

UNIVERSITY TEACHING ROLES

Undergraduates

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|------|--|
| 2010 | Brown University SCRUBS Course (INTR 0001 (CRN 26118))
"Clinical Research in the Developing World"
1-hour lecture – 15 students in attendance |
| 2011 | Brown University PHP 1520: Emergency Medical Systems: A Critical Analysis of Performance
"Policy and Politics in Emergency Medicine"
1-hour lecture – 100 students in attendance |
| 2011 | Brown University PHP 1070: The Burden of Disease in Developing Countries
"Diarrhea and Acute Respiratory Infections" |

- 90-minute lecture – 75 students in attendance
- 2012 Brown University PHP 1520: Emergency Medical Systems: A Critical Analysis of Performance
“Complex Humanitarian Emergencies: Libya Case Study”
1-hour lecture – 100 students in attendance
- 2012 Brown University PHP 1520: Emergency Medical Systems: A Critical Analysis of Performance
“Policy and Politics in Emergency Medicine”
1-hour lecture – 100 students in attendance
- 2012 Brown University PHP 1680K: Introduction to Conducting Clinical Research
“Clinical Research in Resource Limited Settings”
1-hour lecture – 18 students in attendance
- 2012 Brown University PHP 1070: The Burden of Disease in Developing Countries
“Diarrhea and Acute Respiratory Infections”
90-minute lecture – 80 students in attendance
- 2013 Brown University PHP 1680K: Introduction to Conducting Clinical Research
“Clinical Research in Community and International Settings”
2-hour lecture – 20 students in attendance
- 2013 Brown University PHP 1070: The Burden of Disease in Developing Countries
“Integrated Management of Childhood Illness”
90-minute lecture – 65 students in attendance
- 2014 Brown University IR 1802M: Rwanda Past and Present
“Human Resources for Health in Rwanda”
60-minute lecture – 12 students in attendance
- 2014 Brown University PHP 1680K: Introduction to Conducting Clinical Research
“Clinical Research in Community and International Settings”
2-hour lecture – 22 students in attendance
- 2014 Brown University PHP 1070: The Burden of Disease in Developing Countries
“Complex Humanitarian Emergencies”
90-minute lecture – 65 students in attendance
- 2014 Panel Discussion: Political, Cultural and Epidemiological Aspects of the Ebola Outbreak
“Ebola Rising: Impact of Ebola Virus Disease and Strategies for Outbreak Response”
15-minute presentation – 80 students and faculty in attendance
- 2014 POLS1822T: The Politics of Health in the Global South
“The Ethics and Logistics of Health Policy Research During Crises”
90-minute presentation – 20 students in attendance
- 2015 Brown University PHP 1680K: Introduction to Conducting Clinical Research
“Clinical Research in Resource-Limited Settings and Humanitarian Emergencies”
2-hour lecture – 19 students in attendance
- 2015 PHP 0320: Introduction to Public Health
“Ending Ebola: Strategies for Combatting an Epidemic”
1-hour lecture – 120 students in attendance

- 2015 Brown University PHP 1070: The Burden of Disease in Developing Countries
“Complex Humanitarian Emergencies”
90-minute lecture – 50 students in attendance
- 2016 Brown University DEVS 1802S: Human Security and Humanitarian Response
Directed Spring Semester Seminar Course
16 classes – 17 students
- 2016 Brown University PHP 1520: Emergency Medical Systems: A Critical Analysis of
Performance
“Complex Humanitarian Emergencies”
1.5-hour lecture – 65 students in attendance
- 2017 Brown University DEVS 1802S: Human Security and Humanitarian Response
Directed Spring Semester Seminar Course
16 classes – 31 students
- 2017 Brown University PHP 1520: Emergency Medical Systems: A Critical Analysis of
Performance
“Humanitarian Emergencies in Resource Limited Settings”
1-hour lecture – 75 students in attendance
- 2018 Brown University PHP 1802S: Human Security and Humanitarian Response
Directed Spring Semester Seminar Course
16 classes – 41 students

Medical Students

- 2009-2013 Brown University Alpert Medical School
Doctoring Program Mentor
- 2010 Brown University Alpert Medical School
Healing Medicine: A Workshop Exploring Literature, Humanities and the Art of Practicing
of Medicine (Biol 3710-O)
Weekly 2-hour workshops for 8 weeks – 15 students
- 2010 Brown University Alpert Medical School Wilderness Medicine Elective
“International Emergency Medicine”
1-hour lecture – 30 students in attendance
- 2011 Brown University Alpert Medical School
“Advanced Cardiac Life Support”
16 hour course – 94 students in attendance
- 2011 Brown University Alpert Medical School Emergency Medicine Interest Group
“Careers in Global Emergency Medicine”
1-hour discussion – 35 students in attendance
- 2011 Brown University Alpert Medical School Wilderness Medicine Elective
“Global Emergency Medicine”
90-minute lecture – 20 students in attendance
- 2011 Brown University Alpert Medical School Global Health Concentration
“Global Health Faculty Panel”
1-hour panel discussion – 30 students in attendance

- 2012 Brown University Alpert Medical School Wilderness Medicine Course
“International Emergency Medicine Case Conference”
1-hour lecture – 10 students in attendance
- 2012 Brown University Alpert Medical School Physicians for Human Rights Chapter
“Libya Case Study”
1-hour lecture – 30 students in attendance
- 2012 Brown University Alpert Medical School Emergency Medicine Interest Group and
International Interest Group
“Careers in Global Emergency Medicine”
1-hour discussion – 80 students in attendance
- 2013 Brown University Alpert Medical School Wilderness Medicine Course
“Complex Humanitarian Emergencies”
1-hour lecture – 8 students in attendance
- 2013 Brown University Mini-Medical School Event
“Saving Aid: The Future of Global Health and Disaster Response”
1-hour lecture – 40 total students, parents, alumni, and donors in attendance
- 2014 Brown University Alpert Medical School Wilderness Medicine Course
“Complex Humanitarian Emergencies”
1-hour lecture – 12 students in attendance
- 2014 Brown University Alpert Medical School Emergency Medicine Interest Group
“Careers in Global Emergency Medicine”
1-hour lecture – 25 students in attendance
- 2015 Brown University Global Health Lecture Series
“Learning from Ebola: Towards an Evidence-Based Humanitarian Response”
1-hour lecture – 50 students in attendance
- 2017 Brown University Alpert Medical School Primary Care and Population Medicine Program
“Preparing for and Learning from Epidemics”
2-hour panel discussion – 25 students in attendance
- 2018 Brown University Alpert Medical School Second Look Program
Keynote Address: “Lessons from Ebola: Preparing for and learning from epidemics”
1-hour lecture – 60 prospective students in attendance

Graduate Students

- 2014 Co-Convener, Brown International Advanced Research Institutes
Institute on “Human Security and Humanitarian Response”
2 week course – 38 international students in attendance
- 2015 Co-Convener, Brown International Advanced Research Institutes
Institute on “Humanitarian Response and Post Conflict Reconstruction”
2 week course – 40 international students in attendance
- 2015 PHP 1854: Infectious Disease Epidemiology
“Ebola Case Study: Strategies for Combatting an Epidemic”
90-minute lecture – 25 students in attendance

- 2016 Co-Convener, Brown International Advanced Research Institutes
Institute on “Humanitarian Response and Post Conflict Reconstruction”
2 week course – 40 international students in attendance
- 2016 PHP 2025: Ethics of Global Public Health Engagement
“Potentially vulnerable populations”
90-minute lecture – 5 students in attendance
- 2016 Brown University Watson Institute for International and Public Affairs
“Introduction to Humanitarian Decision Making”
4-hour simulation – 20 students in attendance
- 2017 Co-Convener, Brown International Advanced Research Institutes
Institute on “Humanitarian Response and Post Conflict Reconstruction”
2 week course – 35 international students in attendance
- 2018 Co-Convener, Brown International Advanced Research Institutes
Institute on “Social Entrepreneurship within Health and Humanitarian Innovation”
2 week course – 25 international students in attendance
- 2018 Co-Convener, Brown International Advanced Research Institutes
Philippines Institute on “Community Resilience for Natural Disasters”
1 week course – 48 international students in attendance

HOSPITAL TEACHING ROLES

- 2009- Brown Emergency Medicine Residency
“International Emergency Medicine Bedside Rounds”
Teaching Case Series
Rhode Island Hospital, Providence, Rhode Island
- 2009 Brown Emergency Medicine Residency
“Global Child Health”
Rhode Island Hospital, Providence, Rhode Island
- 2010 Brown Emergency Medicine Residency
“International Emergency Medicine”
Rhode Island Hospital, Providence, Rhode Island
- 2010 Brown Emergency Medicine Residency
“Clinical Pathological Conference”
Rhode Island Hospital, Providence, Rhode Island
- 2011 Brown Emergency Medicine Residency
“Complex Political Emergencies: Libya Case Study”
Rhode Island Hospital, Providence, Rhode Island
- 2011 Brown Emergency Medicine Residency
“Acute Pain Management”
Rhode Island Hospital, Providence, Rhode Island
- 2012 Brown Emergency Medicine Residency
“Global Emergency Medicine Case Conference”
Rhode Island Hospital, Providence, Rhode Island

- 2013 Brown Residency International/Global Health Training (BRIGHT) Program
 “Complex Humanitarian Emergencies”
 Rhode Island Hospital, Providence, Rhode Island
- 2014 Brown University Department of Family Medicine Global Health Noon Conference
 “Trauma Management in Complex Humanitarian Emergencies”
 Memorial Hospital of Rhode Island, Pawtucket, Rhode Island
- 2014 Brown Emergency Medicine Residency
 “Ending Ebola: Strategies for Combatting an Epidemic”
 Rhode Island Hospital, Providence, Rhode Island
- 2017 Hasbro Children’s Hospital Pediatric Grand Rounds
 “The Dehydration: Assessing Kids Accurately (DHAKA) Studies”
 Hasbro Children’s Hospital, Providence, Rhode Island
- 2018 Brown Emergency Medicine Residency
 “Public Health Emergencies and Outbreak Response”
 Rhode Island Hospital, Providence, Rhode Island
- 2018 Department of Emergency Medicine Research Curriculum Course
 “Predictive Modeling”
 Rhode Island Hospital, Providence, Rhode Island
- 2018 Department of Emergency Medicine Fellows Career Development Discussions
 “From Seed Grants to K Awards”
 Rhode Island Hospital, Providence, Rhode Island