

**CURRICULUM VITAE**  
**GRACE W. WANJIKU, MD MPH**

Assistant Professor of Emergency Medicine  
Department of Emergency Medicine  
Brown University Alpert Medical School  
593 Eddy Street, Claverick 112  
Providence, RI 02903  
Grace\_wanjiku@brown.edu

EDUCATION

Undergraduate	Wellesley College Biochemistry and French Cultural Studies Aug 2002 - May 2006 Bachelor of Arts, 2006
Medical School	Yale University School of Medicine Aug 2007- May 2011 Doctor of Medicine, 2011
Other Degrees	Yale School of Public Health July 2015 - May 2017 Advanced Professional MPH (Global Health) 2017

POST GRADUATE TRAINING

Residency	Rhode Island Hospital/ Hasbro Children's Hospital/ Miriam Hospital Brown University Emergency Medicine Residency Program Aug 2011- July 2015 Emergency Medicine
Fellowship	Yale New Haven Health Clinical instructor, Fellow Acute and Critical Care Ultrasound Aug 2015- Aug 2017

PROFESSIONAL COURSES

06/2011	Advanced Trauma Life Support
06/2013	Advanced Cardiac Life Support
06/2011	Project CLEAR

An interdisciplinary course on structured communication and team work in the ED. Brown University Emergency Medicine Residency Program

- 06/2013      Critical care course  
A simulation based course on the management of multiple critically ill patients  
Brown University Emergency Medicine Residency Program
- 05/2013      Pediatric Sedation Course  
A didactic and simulation based course  
Brown University Emergency Medicine Residency Program
- 04/2013      Advanced Airway Training Course  
An intensive two-day course using live anesthetized animals and simulation  
Brown University Emergency Medicine Residency Program
- 04/2013      Emergency Radiology Course  
Two-week course on the systematic and rapid interpretation of X-rays and CT scans tailored for the Emergency Physician  
Brown University Emergency Medicine Residency Program
- 2011-2015      Emergency Ultrasound  
ACEP level certification in E-FAST, Gallbladder, AAA. Proficient in procedural applications of ultrasound e.g central line placement  
Brown University Emergency Medicine Residency Program
- 11/2019      Independent Practitioner  
Canadian Point of Care Ultrasound Society: Acute Care Core Track.  
Areas of certification: Aortic, Sub- xiphoid cardiac, Abdominal free fluid (upper quadrants) Abdominal free fluid (Pelvis), first trimester obstetrics, Pleural effusion, Pneumothorax
- 10/2021      WHO-ICRC Basic Emergency Care: Approach to the acutely ill and injured.  
A training course for frontline healthcare providers who manage acute illness and injury with limited resources.

#### POST GRADUATE HONORS AND AWARDS

- 2014      Framework in Global Health Scholarship, Warren Alpert Medical School, Brown University
- 2014      Global Health Initiative award, Emergency Medicine Residents Association
- 2015      Global Health Impact Award, Brown University Emergency Residency Program, Warren Alpert Medical School, Brown University
- 2018      Global Health impact Award, Department of Emergency Medicine, Warren Alpert Medical School, Brown University

UNDERGRADUATE HONORS AND AWARDS

2000	Full Scholarship to United World College Hong Kong
2002	Full Scholarship, Davis United World College Scholar to Wellesley College
2003	SOS International Internship, Wellesley College
2003	First Year Chemistry Award, Wellesley College
2003	National Deans List, Wellesley College
2004	Roberta D. Staley and Karl A. Staley Fund for Cancer research. Wellesley College
2008	M.A. Cartland Shackford Medical Fellowship
2008	Wilbur Downs International Health Student Fellowship, Yale University

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2009	USMLE Step1
2010	USMLE Step 2 CK and CS
2011- 2015	Limited Physician License, Rhode Island Board of Medical Licensure and Discipline
2014	Pediatric Advanced Life Support
2015	Physician license, State of Connecticut
2016	Diplomate, American Board of Emergency Medicine
2017	Physician license, State of Rhode Island
2018	Physician License, Kenya Medical Practitioners and Dentists Board

ACADEMIC APPOINTMENTS

2015-2017	Clinical Instructor and Fellow Division of Emergency Ultrasound, Department of Emergency Medicine Yale University School of Medicine New Haven, CT
2017-	Assistant Professor of Emergency Medicine Department of Emergency Medicine Brown University Alpert Medical School
09-11/ 2018	Visiting Faculty and Carnegie African Diaspora Fellow Aga Khan University Hospital, Nairobi, Kenya

HOSPITAL APPOINTMENTS

2011-2015	Resident Physician Department of Emergency Medicine, Rhode Island Hospital Providence, Rhode Island
2011-2015	Resident Physician Department of Emergency Medicine, Hasbro Children's Hospital Providence, Rhode Island

- 2011-2015     Resident Physician  
                  Department of Emergency Medicine, Miriam Hospital  
                  Providence, Rhode Island
- 2015-2017     Staff Physician  
                  Department of Emergency Medicine, Yale New Haven Health  
                  New Haven, Connecticut

#### OTHER APPOINTMENTS

- 2006-2007     Research Assistant. Beth Israel Deaconess Medical Center. Boston, MA
- 2010-2011     Radiology Triage Resident. Yale New Haven Hospital Emergency and  
                  Radiology Departments. New Haven, CT
- 2012-2015     Critical Care Transport Physician, Rhode Island Hospital, Hasbro Children's  
                  Hospital. Physician for LifePACT adult and pediatric ambulance service.  
                  Providence, RI
- 2014-          Chief Knowledge Officer, Helpfie Smart First Aid and Helpfie Smart EMS  
                  Quincy MA, USA and Nairobi Kenya

#### UNIVERSITY COMMITTEES

- 2008-2011     Founder, Clinical Tropical Medicine Elective  
                  One of two students that started the first- ever clinical tropical medicine  
                  course. Organized student, resident and faculty groups to lecture on a monthly  
                  basis. Yale University School of Medicine. New Haven, CT
- 2008-2011     Member, Global Health Working Group  
                  Participated in a student-led initiative that invited Global Health leaders for  
                  monthly lectures to medicine and public health students  
                  Yale University School of Medicine. New Haven, CT
- 2013-2015     Vice chair, Founder, Brown Minority House-staff Association (BMHA)  
                  Founded a resident-led association that promotes the advancement of under-  
                  represented house-staff through mentorship, networking and advocacy  
                  Alpert Medical School of Brown University. Providence, RI
- 2018-          Member, Underrepresented in Medicine- Recruitment Committee (URiM-RC)  
                  Emergency Medicine Residency Program.  
                  Alpert Medical School of Brown University. Providence, RI
- 2021-          Member, Residency Recruitment Committee  
                  Emergency Medicine Residency Program.  
                  Alpert Medical School of Brown University. Providence, RI

#### MEMBERSHIP IN SOCIETIES

- 2007-2011     Member, African Healthcare Professionals Interest Group (AHPiG)

Yale University

- 2007-2011 Member, Student National Medical Association (SNMA)
- 2011-2015 Emergency Medicine Residents' Association (EMRA)
- 2011- Rhode Island ACEP Chapter (RI ACEP)
- 2011- American College of Emergency Physicians (ACEP)  
Member, International Emergency Medicine Section
- 2014- Member, African Federation of Emergency Medicine (AFEM)
- 2015- Emergency Medicine Kenya Foundation (EMKF)  
Rural Point of Care Ultrasound trainer and coordinator
- 2015 Society for Academic Emergency Medicine (SAEM)  
Committee Member, Ultrasound interest group
- 2016 Member, Academy of Emergency Ultrasound (AEUS)
- 2019- ACEP Deputy Ambassador for Kenya

ORIGINAL PEER REVIEWED PUBLICATIONS

1. Tran LT, Wang'ondur RW, Weng JB, **Wanjiku GW**, Fong CM, Kile AC, Koepp DM, Hood-DeGrenier JK. (2010) TORC1 kinase and the S-phase cyclin Clb5 collaborate to promote mitotic spindle assembly and DNA replication in *S. cerevisiae*. Curr Genet. Dec; 56 (6): 479-93.
2. **Wanjiku, G.** Low Uptake of Intermittent Preventive Treatment of Malaria in HIV-infected Pregnant Women at an Urban Hospital in Accra, Ghana. (2011) Yale Medicine Digital Library. 1604.
3. Janeway H, Modi P, **Wanjiku G**, Millan R, Kato K. Foggie J, Partridge R. Training the trainers in emergency medicine: an advanced trauma training course in Rwanda's medical simulation center. The Pan African Medical Journal. 2015;20:242
4. Zaver, F, Boniface K, Shokoohi H, Wachira B, **Wanjiku G.** International Scope Of Emergency Ultrasound: Barriers To Utilizing Ultrasound To Guide Central Venous Catheter Placement By Providers In Kenya. CJEM, vol 18 Issue S1. May 2016 P.S127
5. **Wanjiku G**, Janeway H, Foggie J, Partridge R, Wang Y, Kearney A, Levine A Carter J, Tabu J. Assessing the impact of an emergency trauma course for senior medical students in Kenya. African Journal of Emergency Medicine, Volume 7, Issue 4, 2017, Pages 167-171

6. **Wanjiku G**, Bell G, Wachira B. Assessing a point of care ultrasound training program for rural health care practitioners in Kenya. [BMC Health Serv Res](#). 2018 Aug 6;18(1):607.
7. Crosby J, Werku D, Zewdu T, **Wanjiku G**, Schmidt J. Acute Mesenteric Ischaemia. A case of expedited diagnosis and management using point-of-care ultrasound. *African Journal of Emergency Medicine*, Volume 8, Issue 4, 2018, Pages 164-166
8. Dreizler L, **Wanjiku G**. Tele-ECHO for Point-of-Care Ultrasound in Rural Kenya. A Feasibility Study. *Rhode Island Medical Journal* Vol 102, Number 7. Sept 2019
9. Waweru-Siika W, Barasa A, Wachira B, Nekyon D, Karau B, Juma F, **Wanjiku G**, Otieno H., Bloomfield G., Sloth E. Building focused cardiac ultrasound capacity in a low-to-middle-income country: A single centre study to assess training impact. *African Journal of Emergency Medicine* [Volume 10, Issue 3](#), September 2020, Pages 136-143
10. Eke O, Henwood P, **Wanjiku G**, Fasina A, Kharasch S, Shookohi H. Global Point-of-care ultrasound education and training in the age of COVID-19. *International Journal of Emergency Medicine* 2021 14:12
11. Lee J, **Wanjiku G**, Nduku N, Aluisio A, Kharel R, Tabu S, Wachira B. The status and future of emergency care in the Republic of Kenya. *African Journal of Emergency Medicine*, Volume 12, Issue 1, 2022, Pages 48-52
12. Baloesu C, Parhar A, Liu R, **Wanjiku G**. Effect of Point-of-Care Ultrasound on Clinical Outcomes in Low Resource Settings: A Systematic Review. *Ultrasound in Medicine & Biology*, Volume 48, Issue 9, p1711-1719, September 1 2022
13. **Wanjiku G**, Dreizler L, Bell G, Wachira B. Utility of Project ECHO tele-mentoring to build capacity among non-specialist emergency care providers. *African Journal of Emergency Medicine*, Volume 12, Issue 4, 2022, Pages 352-357
14. Nyamu N, Sugut J, Mochache T, Kimeu P, Mukundi G, Ngugi D, Njonjo S, Mustafa A, Mbuvi P, Nyagaki E, Kironji G, **Wanjiku G**, Wachira B. Facility-Oriented Simulation-Based Emergency Care Training in Kenya: A Practical Approach for Low- and Middle-Income Countries. *Critical Care Clinics*. Volume 38, Issue 4, 2022, Pages 839-852
15. **Wanjiku, G**, Dreizler, L, Wu, S. Baird J, Wachira B. Utility of hand-held ultrasound for image acquisition and interpretation by trained Kenyan providers. *Ultrasound J* **15**, 12 (2023).
16. Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. **Wanjiku G**. Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students. *Int J Emerg Med* **16**, 29 (2023)

#### OTHER NON PEER REVIEWED PUBLICATIONS

1. **Grace Wanjiku**, Roland Stieger, Kristin Dwyer, Patricia Henwood. International Ultrasound: Hepatic Vena Cava Syndrome. ACEP Emergency Ultrasound Section Newsletter – August 2017.
2. Editor, AFEM Ultrasound Presentation Bank: Ultrasound for Dyspnea, Skin and musculoskeletal ultrasound, Ultrasound guided vascular access
3. **Grace Wanjiku**, Shirley Wu, Kristin Dwyer, Patricia Henwood “International Ultrasound: Opportunities and challenges for the use of handheld ultrasound devices in rural Kenya.” ACEP Emergency Ultrasound Section Newsletter, 2019

#### PUBLICATIONS SUBMITTED OR IN PREPARATION

1. **Wanjiku G**, Bell G, Kapadia S, Wachira B. Impact of point-of-care ultrasound use on referral patterns in rural Kenya: A mixed methods study. *Submitted to BMC Health Services Research, under review*
2. Myers, JG, **Wanjiku GW**, Ashley, S, Wangara AA, Maingi A, Dunlop SJ, Ojuka D, Othieno P, Wieland T, Platts-Mills, T. Impact of Ultrasound-in-Triage on Diagnosis and Treatment of Trauma Patients in the Accident & Emergency Department of Kenyatta National Hospital. *In preparation*
3. **Wanjiku G**, Bell G, Kapadia S, Wachira B. Challenges of Point of care ultrasound performance in Rural Kenya. A qualitative assessment. *In preparation*

#### ABSTRACTS

1. **Wanjiku G**, Janeway H, Foggie J, Partridge R, Wang Y, Kearney A, Carter J, Tabu S. “Impact of an Innovative Low Cost Emergency Trauma Course for Senior Medical Student in Kenya” Presented at the International Conference on Emergency Medicine. Cape Town, South Africa. 04/2016
2. **Wanjiku G**, Janeway H, Foggie J, Partridge R, Wang Y, Kearney A, Carter J, Tabu S. “Impact of an Innovative Low Cost Emergency Trauma Course for Senior Medical Student in Kenya” Presented at the New England Regional SAEM Meeting. Worcester, MA. 04/2016
3. **Wanjiku G**, Dreizler, L. “Tele-ECHO for point of care Ultrasound in Rural Kenya: A Pilot Study. Poster Presentation at the Research Symposium, Warren Alpert Medical School of Brown University . 10/2018
4. **Wanjiku G**, Dreizler, L. “Tele-ECHO for point of care Ultrasound in Rural Kenya: A Pilot Study.” Poster presentation at the 7<sup>th</sup> EMSSA International Conference, Cape Town South Africa, 11/2019

5. Karume A, Sugut J, Pirirei P, Guleid A, Mwongera P, **Wanjiku G**, Myers J, Beck A. An evaluation of current practices in management of diabetic ketoacidosis in a Kenyan academic medical center. 12th KEMRI Annual Scientific and Health (KASH) conference, Nairobi Kenya, 02/2022
6. Karume A, Sugut J, Pirirei P, Guleid A, Mwongera P, **Wanjiku G**, Myers J, Beck A. An evaluation of current practices in management of diabetic ketoacidosis in a Kenyan academic medical center. Society of Academic Emergency Medicine (SAEM) New Orleans, Louisiana. 05/ 2022
7. **Wanjiku G**, Dreizler L, Wu S, Baird J. Utility of smart phone based ultrasound use for image acquisition, interpretation and transmission by trained Kenyan providers. Society of Academic Emergency Medicine (SAEM) New Orleans, Louisiana. 05/ 2022
8. **Wanjiku G**, Dreizler L, Wu S, Baird J. Utility of smart phone-based ultrasound use for image acquisition, interpretation and transmission by trained Kenyan providers. SAEM New England Regional Meeting (NERDS) 04/2022
9. Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. **Wanjiku G**. Evaluation of the World Health Organization (WHO) Basic Emergency Care (BEC) Course for Senior Medical Students in Kenya. Society of Academic Emergency Medicine (SAEM) New Orleans, Louisiana. 05/ 2022
10. Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. **Wanjiku G**. Evaluation of the World Health Organization (WHO) Basic Emergency Care (BEC) Course for Senior Medical Students in Kenya. SAEM New England Regional Meeting (NERDS) 04/2022
11. Nyamu N, Sugut J, Mochache T, Kimeu P, Mukundi G, Ngugi D, Njonjo S, Mustafa A, Mbuvi P, Nyagaki E, Kironji G, **Wanjiku G**, Wachira B. Facility-oriented, simulation-based emergency care training in Kenya: A practical approach for LMICs. Sixth African Conference on Emergency Medicine, Nov 16<sup>th</sup>-18<sup>th</sup> 2022 Accra, Ghana
12. Myers J, Sugut J, Ashley S, Ngila B, Maingi A, Wieland T, Othieno P, Platts-Mills T Shams R, Wangara A, Dunlop S, Jasper C, Mbuvi P, Hunold K Kimathi P, Ojuka, D **Wanjiku G**. Outcomes before and after introducing ultrasound for trauma patients in an emergency department in Kenya. Sixth African Conference on Emergency Medicine, Nov 16<sup>th</sup>-18<sup>th</sup> 2022, Accra, Ghana
13. Karume A, Sankei P, Ebert E, Mwongera P, Sugut J, Myers J, Guleid A, **Wanjiku G**, Beck A. Improvement in Knowledge of Diabetic Ketoacidosis Management Following a Case-based Curriculum in Kenya. SAEM New England Regional Meeting (NERDS) 04/2023
14. Karume A, Sankei P, Ebert E, Mwongera P, Sugut J, Myers J, Guleid A, **Wanjiku G**, Beck A. Improvement in Knowledge of Diabetic Ketoacidosis Management Following a Case-

based Curriculum in Kenya. Society of Academic Emergency Medicine (SAEM) Dallas Texas. 05/ 2023

## BOOK CHAPTERS

1. **Wanjiku, G.** Ultrasound for Trauma. AFEM Handbook of Acute and Emergency Care. 2<sup>nd</sup> edition. Checkett, KA, Wallis LA, Reynolds TA. Oxford University Press

## INVITED PRESENTATIONS

### *National*

- |         |  |
|---------|--|
| 09/2015 | Instructor, Yale New England Emergency & Critical Care Ultrasound Course. Newport RI   |
| 03/2016 | Instructor, Yale Caribbean Emergency & Critical Care Ultrasound Course. Miami, FL  |
| 09/2016 | Instructor, Yale New England Emergency & Critical Care Ultrasound Course. Newport RI   |
| 03/2016 | Instructor, Yale Caribbean Emergency & Critical Care Ultrasound Course. Clearwater, FL   |
| 09/2017 | Instructor, Yale New England Emergency & Critical Care Ultrasound Course. Newport RI   |
| 10/2017 | Instructor, Vertigo Skills workshop. American College of Emergency Physicians (ACEP) Scientific Assembly, Washington DC  |
| 09/2019 | Instructor, Yale New England Emergency & Critical Care Ultrasound Course. Newport RI   |
| 05/2020 | Emergency Medicine and Point-of-Care ultrasound in Kenya<br>Presented at the Center for Ultrasound Research and Education (CURE),<br>Massachusetts General Hospital's Global Ultrasound Month Virtual Conference.<br>Boston MA |
| 01/2021 | POCUS with a Global Focus. 4 <sup>th</sup> Live Vave EduCast   |
| 05/2021 | Remaining Engaged in Academic Global Emergency Medicine When Travel is Restricted. Society for Academic Emergency Medicine (SAEM) Annual Meeting 2021  |
| 01/2022 | Brown Global Emergency Medicine National Education Conference. Point-of Care-Ultrasound Case presentation: Cardiac Tamponade. Providence RI  |

- 03/2022 Building a program in point-of-care Ultrasound. Center For Global Emergency Care, John Hopkins University, Baltimore USA
- 06/2022 Brown Global Emergency Medicine National Education Conference. Point-of Care-Ultrasound Case presentation: First/ Second Trimester Focused Ultrasound. Providence RI
- 09/2023 POCUS training and credentialling in Kenya: The Canadian POCUS (CPOCUS) outreach program. Society of Clinical Ultrasound Fellowships (SCUF) Annual Meeting 2023, Portland, Maine

*International*

- 10/2013 Trauma course for 13 first year emergency medicine residents. University Central Hospital Kigali (CHUK) Kigali, Rwanda
- 02/2014 Ultrasound guided Central line placement training for to 34 residents in the ICU, Anesthesia and Emergency Departments Aga Khan University Hospital, Nairobi, Kenya
- 02/2014 Trauma management in women, children and the elderly. 25 Emergency Department doctors and nurses. Aga Khan University Hospital, Nairobi, Kenya
- 08/2014 Ultrasound in Critical care, Ultrasound Guided Central Line Placement. 45 trainees. 22<sup>nd</sup> Kenya Society of Anesthesiologists (KSA) and 2<sup>nd</sup> Critical Care Society of Kenya (CCSK) Scientific Conference. Mombasa, Kenya
- 03/2015 Trauma Course for 22 graduating medical students. Moi University School of Medicine. Eldoret, Kenya.
- 01/2016 Trauma Course for 24 graduating medical students. Moi University School of Medicine. Eldoret, Kenya.
- 01/2016 Point of Care Ultrasound Course. 35 Medicine, Pediatrics and ICU doctors and nurses Nairobi Hospital, Kenyatta National Hospital. Nairobi, Kenya
- 03/2016 2016 AIUM Annual Convention. New York, NY "Point of Care Ultrasound Training in Rural Kenya"
- 04/2016 Point of Care Ultrasound refresher course for 20 primary rural health care practitioners. Nairobi, Kenya
- 06/2016 Trauma Course for 22 graduating medical students. Moi University School of Medicine. Eldoret, Kenya.
- 11/2016 Point of care 2-day pre-conference course. Third African conference on

Emergency Medicine. Cairo, Egypt

- 11/2016 Third African conference on Emergency Medicine, Cairo Egypt. “Point of care Ultrasound Training in Rural Kenya”
- 11/2016 Point of Care Ultrasound initial course for 20 primary rural health care practitioners. Nairobi, Kenya
- 03/ 2018 Trauma Course for 24 graduating medical students. Moi University School of Medicine. Eldoret, Kenya.
- 03/2018 Acute Cardiac Clinical Care Symposium, Aga Khan University Hospital, Nairobi Kenya. Panelist: Chest pain, Shortness of breath, Cardiac Tamponade
- 04/ 2018 Point of Care Ultrasound introductory course for 14 primary rural health care practitioners. Nairobi, Kenya
- 11/ 2018 Point of care 2-day pre-conference course. Fourth African conference on Emergency Medicine. Kigali, Rwanda
- 11/2018 Fourth African Conference on Emergency Medicine, Kigali, Rwanda. “Global Emergency Medicine Collaborations”
- 02/ 2020 Point of Care Ultrasound introductory course for 20 primary rural health care practitioners. Nairobi, Kenya
- 05/2020 **Wanjiku, G**, Mwarumba, N, Oyiengo, D, Wameyo, E, Kuria, C, Kiragu, AW. Managing COVID 19 Disease in the United States: Kenyan physicians and nurses share their experiences. Kenyatta National Hospital-University of Nairobi Zoom Webinar, May 6th, 2020.
- 04/2020 Stone M, **Wanjiku G**, Martin J. Lung Ultrasound. What you need to know. Butterfly Network Zoom Webinar, April 15 2020  
<https://www.butterflynetwork.com/uk/blog/lung-ultrasound-what-you-need-to-know>
- 11/2020 Point of care 1-day pre-conference course. Fifth African conference on Emergency Medicine. Virtual Conference
- 06/2021 Impact of POCUS use on referral patterns in rural Kenya: A mixed methods study. WINFOCUS 16<sup>th</sup> Virtual World Congress 2021
- 08/2022 POCUS in Pregnancy. Virtual Emergency POCUS training for 12 Emergency Medicine Diploma trainees. Aga Khan University Hospital, Nairobi Kenya.

- 12/2022 Utility of Hand-held ultrasound for image acquisition and interpretation by trained Kenyan providers. WINFOCUS 17<sup>th</sup> World Congress Hybrid Conference, Dec 1-Dec 4, Antalya, Turkey.
- 05/2023 POCUS in Pregnancy. POCUS for Emergency and Acute Care in Resource-Limited Settings (PEARLS) virtual lecture series, Australia.
- 05/2023 Introduction to POCUS. Virtual presentation to 12 pediatric doctors in Nepal, hosted by the departments of global emergency medicine and pediatric emergency ultrasound, Brown University.

### GRANTS

1. Division of Global Emergency Medicine Seed Grant 10/2022-10/2023  
Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students  
Role: Principal Investigator  
Total Costs: \$3,000
2. Global Health Scholars Program, University of North Carolina Chapel Hill 04/2023-04/2025  
Needs Assessment, Implementation and Evaluation of the Basic Emergency Care Training for Kenyan Medical Students.  
Role: Co-Principal Investigator  
Total Costs: \$8,000
3. Carnegie African Diaspora Alumnae Fellowship 03/2020-03/2021  
Curriculum development for a Masters of Emergency Medicine, Aga Khan University Hospital, Nairobi Kenya (AKUHN). Collaborative project between Grace Wanjiku (MD) Brown University and Benjamin Wachira MMED (AKUHN)
4. Kenyatta National Hospital/ University of Nairobi Research Funding 09/2020-09/2021.  
Effectiveness of point-of-care ultrasound for diagnosis and management of COVID-19 in Kenya  
Role: Co-Investigator  
Total Costs: \$ 4,000
5. UEMF Research Development Grant 10/2018-09/ 2019  
Kenya Rural Point of Care Ultrasound Tele-ECHO. A pilot Study  
PI: Grace W Wanjiku  
Total Costs: \$40,000

6. Carnegie African Diaspora Fellowship 09/2018-11/2018 Curriculum development for a Masters of Emergency Medicine, Aga Khan University Hospital, Nairobi Kenya (AKUHN). Collaborative project between Grace Wanjiku (MD) Brown University and Benjamin Wachira MMED (AKUHN)  
Total costs: \$19,000
7. Aga Khan University Research Council grant 04/2018-03/2019  
Impact of FATE Training on the Performance of Basic Bedside Echocardiography by Non Cardiologists at Aga Khan University Hospital, Nairobi Kenya (AKUHN)  
PI: Wangari Waweru Siika. Role: Co-Investigator  
Total costs: \$10,000
8. Emergency Medicine Residents Association: Global Health Initiative Award 09/2014-03/2015  
To design, implement and evaluate a trauma course for graduating medical students at Moi University School of Medicine. Eldoret, Kenya  
P.I: Adam Levine, MD. Role: Principal collaborator Percent effort: 80%  
Total costs: \$2,000
9. Brown University: Framework in Global Health Scholarship. 09/2014-03/2015  
To design, implement and evaluate a trauma course for graduating medical students at Moi University School of Medicine. Eldoret, Kenya  
P.I: Adam Levine, MD. Principal collaborator Percent effort: 80%  
Total costs: \$3,500
10. Yale University School of Medicine: Wilbur Downs International Health Student Fellowship. 06/08- 08/08  
To Investigate the Uptake of Intermittent Preventive Treatment of Malaria in HIV infected Pregnant Women at an Urban Hospital in Accra, Ghana.  
P.I.: Elijah Paintsil, MD Role: Student, research assistant Percent effort: 80%  
Total costs: \$2,500
11. Wellesley College: Roberta D. Staley and Karl A. Staley Fund for Cancer research 09/2004-05/2006  
To Investigate the secretory pathway in the yeast *S. cerevisiae* model  
P.I: Jennifer Hood-Degrenier P.hD. Role: Research Assistant Percent effort: 60%.  
Total costs: \$2,500

#### UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

##### *Undergraduate teaching*

- 12/2015 Medical Student Point-of-Care Ultrasound Workshop “Understanding body anatomical planes” Yale School of Medicine, New Haven, CT
- 07/2019 Medical Student Point of Care Ultrasound Workshop “ Basics of Ultrasound” The Warren Alpert Medical School of Brown University, Providence R

Mentoring

1. Lindsay Dreizler, MD Candidate 2021, Warren Alpert Medical School of Brown University. 2018-Present  
Funding: Summer Assistantship, 2018. \$ 3,500  
Publication: Dreizler L, Wanjiku G. Tele-ECHO for Point-of-Care Ultrasound in Rural Kenya. A Feasibility Study. Rhode Island Medical Journal Vol 102, Number 7. Sept 2019
2. Jennifer Loehner MD Candidate 2023 University of Washington School of Medicine Summer 2020  
Funding: Global Innovation Fund, University of Washington School of Medicine \$ 10,000  
Project: Developing milestones and assessment tools for the EM residency program at Aga Khan University Hospital, Nairobi Kenya
3. Derrick Ochieng, MB ChB Candidate 2021, University of Nairobi School of Medicine Summer 2020-  
Publication: Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. Wanjiku G. Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students. *Int J Emerg Med* **16**, 29 (2023)
4. Mary Gitau: MB ChB Candidate 2021, University of Nairobi School of Medicine Summer 2020-  
Publication: Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. Wanjiku G. Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students. *Int J Emerg Med* **16**, 29 (2023)
5. Sonja Kapadia: MD Candidate 2026, Warren Alpert Medical School of Brown University. 2021-present  
Project: Impact of point-of-care ultrasound use on patient referral decisions in rural Kenya: A mixed methods study

Residents

- 08/2015 “Sono-wars” Resident point of care ultrasound skills competition. Emergency Medicine Residency Conference, New Haven, CT

- 05/2016 “Pass the Pointer” Resident Ultrasound Image review. Yale Department of Emergency Medicine Residency Conference, New Haven, CT
- 05/2016 Ultrasound use in critical care. Residency Area of Concentration (AOC) lecture and hands –on workshop.  
Department of Emergency Medicine Residency Conference, New Haven, CT
- 08/2016 “Sono-wars” Resident point of care ultrasound skills competition.  
Emergency Medicine Residency Conference, New Haven, CT
- 10/2016 “Pass the Pointer” Resident Ultrasound Image review. Yale Department of Emergency Medicine Residency Conference, New Haven, CT
- 01/2017 Determination of fluid responsiveness using carotid flow time. Residency Area of Concentration (AOC) lecture and journal club. Department of Emergency Medicine Residency Conference, New Haven, CT
- 07/2018 Intern Point of care ultrasound bootcamp. Brown University Emergency Medicine Residency Program. Providence, RI
- 07/2019 Intern Point of care ultrasound bootcamp. Brown University Emergency Medicine Residency Program. Providence, RI
- 09-10 /2019 Supervisor, Clinical Rotation at Kenyatta National Hospital, Nairobi Kenya  
Dr. Andrew Beck, Brown Emergency Residency Program  
Presentation “ Organophosphate Poisoning” At the Brown Global Emergency Medicine Division’s Education Conference 11/ 2020
- 10-11 /2019 Supervisor, Clinical Rotation at Kenyatta National Hospital, Nairobi Kenya  
Dr. Michael Wilk, Brown Emergency Residency Program  
Presentation “Management of pneumothorax in a low resource setting”  
At the Brown Global Emergency Medicine Conference. 02/ 2020
- 01/2020 Global Emergency Medicine Division Point of Care Ultrasound Case presentation, Brown University Emergency Medicine Residency Program. Providence RI
- 07/2020 Intern Point of care ultrasound bootcamp. Brown University Emergency Medicine Residency Program. Providence, RI
- 06/2021 Brown Global Emergency Medicine National Education Conference. Point-of Care-Ultrasound Case presentation: Lung Ultrasound. Providence RI
- 07/2021 Intern Point of care ultrasound bootcamp. Brown University Emergency Medicine Residency Program. Providence, RI

*Mentoring*

- 1 Sonya Naganathan MD, Fellow, Division of Global Emergency Medicine, Department of Emergency Medicine, Warren Alpert Medical school of Brown University  
Funding Framework in Global Health Award, Warren Alpert Medical School of Brown University \$3,500  
Project: Impact of ultrasound in triage on diagnosis and treatment of trauma patients at the Accident and Emergency Department of Kenyatta National Hospital
- 2 Nichole Michaeli, MD, Brown Emergency Residency Program. Scholar, Brown Residency International/Global Health Training Pathway (BRIGHT) Program  
Funding: Framework in Global Health Award, Warren Alpert Medical School of Brown University \$ 3,500  
Publication Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. Wanjiku G. Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students. *Int J Emerg Med* **16**, 29 (2023)
- 3 Giovanna Deluca MD, Emergency Medicine resident, Brown Emergency Residency Program  
Funding: Division of Global Emergency Medicine seed grant: \$3000  
Publication Michaeli, N, De Luca, G, Gitau, M, Myers J, Ojuka D, Ouma D, Wieland T. Wanjiku G. Evaluation of the World Health Organization—International Committee of the Red Cross Basic Emergency Care course for senior medical students. *Int J Emerg Med* **16**, 29 (2023)
- 4 Andrew Beck MD Emergency Medicine resident, Brown Emergency Residency Program  
Project: Implementation of an educational intervention to address DKA management at Kenyatta National Hospital, Nairobi Kenya

#### HOSPITAL TEACHING ROLES

- |         |  |
|---------|--|
| 09/2011 | Brown Emergency Medicine Residency Program<br>Journal Club Presentation<br>Topic: Clinical outcomes related to adrenal suppression secondary to Etomidate use for rapid sequence intubation<br>Rhode Island Hospital, Providence, Rhode Island |
| 04/2013 | Brown Emergency Medicine Residency Program<br>Toxicology Conference<br>Topic: Iron Toxicity<br>Rhode Island Hospital, Providence, Rhode Island   |
| 09/2013 | Brown Emergency Medicine Residency Program   |

Clinical Pathological Conference (CPC)  
Topic: Multiple ED bounce backs, Febrile patient. Still's Disease  
Rhode Island Hospital, Providence, Rhode Island

- 10/2013      Brown Emergency Medicine Residency Program  
LifePACT Emergency Medical Services Lecture Series  
Topic: EMS in Kenya  
Rhode Island Hospital, Providence, Rhode Island
- 2013-2015    Brown Emergency Medicine Residency Program  
Medical Student Lecture Series  
Dizziness/ Syncope. Orthopedic injuries. Taught on multiple days  
Rhode Island Hospital, Providence, Rhode Island
- 2014-2015    Brown Emergency Medicine Residency Program  
Emergency Medicine Morning Report:  
Multiple topics: 30 minute lectures  
Rhode Island Hospital, Providence, Rhode Island

#### CURRICULUM DEVELOPMENT

##### *International*

- 09/2019-11/2019      Curriculum for Master of Medicine in Emergency Medicine (M.Med EM) Aga Khan University, Nairobi, Kenya. Developed a curriculum for a 4-year Masters of Medicine in Emergency Medicine, submitted it to the Dean of the Medical school and to the Commission of University Education
- 09/2019- 11/2019      Curriculum for Undergraduate Medical Student Core Clerkship in Emergency Medicine, Aga Khan University, Nairobi, Kenya. Developed the curriculum for a 3-week core clerkship in Emergency Medicine, submitted to and approved by the Dean of the Medical School
- 09/2019-11/2019      Curriculum for The Emergency Care Course (TECC), a 5-day course developed by the Emergency Medicine Kenya Foundation, targeted to health care workers who work in emergency centers all across Kenya.

#### PUBLIC SERVICE

- 2015-            Member, Emergency Medicine Kenya Foundation (EMKF). A non-profit organization to guide and inform the development of a sustainable emergency medical care system in Kenya appropriate for the local healthcare system.
- 2021-            Founding Member, EMK foundation. A 501(c)(3) public charity established in the US to support Emergency Medicine Kenya Foundation and other non-profit emergency care organizations in line with our mission.

