

Joseph R. Egger

Duke Global Health Institute 919.613.4405
 Duke University joseph.egger@duke.edu
 236 Trent Hall <https://globalhealth.duke.edu/people/faculty/egger-joseph>
 ORCID ID: <https://orcid.org/0000-0002-0862-9511>

PROFESSIONAL EXPERIENCE

2024 - Director of Academic Programs, Duke Global Health Institute, Duke University

2021 - Associate Professor of the Practice of Global Health, Duke Global Health Institute, Duke University

2024 - Visiting Professor, Muhimbili University of Health and Allied Sciences (MUHAS), Department of Psychiatry and Mental Health, Dar es Salaam, Tanzania

2022 - 2024 Director of Graduate Studies and Faculty Director of the Master of Science in Global Health program, Duke Global Health Institute, Duke University

2016 - 2021 Assistant Professor of the Practice of Global Health, Duke Global Health Institute, Duke University

2015 - Associate Director for Education, Research Design & Analysis Core, Duke Global Health Institute, Duke University

2013 - 2016 Research Scholar, Duke Global Health Institute, Duke University

2012-2013 Lead Epidemiologist, SciMetrika, LLC

2011-2012 Senior Epidemiologist, SciMetrika, LLC

2008 - 2011 Senior Research Scientist, Division of Epidemiology, NYC Department of Health & Mental Hygiene

2006 - 2008 Health Research Consultant, New York Obesity Research Center, Columbia University

2005 - 2006 Analyst, Department of Public Health and Clinical Excellence, London

Health Authority

2001 - 2004 Research Assistant, Division of General Internal Medicine, University of Washington

FIELDS OF INTEREST: Epidemiologic methods, measurement/bias, impact evaluation, causal inference, mediation analysis, infectious disease transmission.

EDUCATION

2009 PhD Infectious & Tropical Diseases, London School of Hygiene & Tropical Medicine

Thesis title: [*Improving Surveillance for Dengue Fever in Asia and the Americas*](#)
 Advisor: Robert Aunger; Co-supervisors: Clive Davies, Paul Coleman

2004 MA Medical Geography, University of Washington

Thesis title: [*A political ecological analysis of the emergence and proliferation of dengue and dengue hemorrhagic fever in Port of Spain, Trinidad and Tobago*](#)
 Advisor: Jonathan Mayer

1999 BS Biology, College of Charleston

TEACHING

Courses at Duke University

2023 Biostatistics and Epidemiology for Global Health [GLHLTH 710]

2018 - Understanding the Causes and Spread of Human Disease: Global Health Epidemiology [GLHLTH 362]

2017 - Intermediate Global Health Epidemiology [GLHLTH 710]

- 2013 - 2021 (Lab) Biostatistics and Epidemiology for Global Health Science II [GLHLTH 707L]
- 2014 - 2016 (Independent Study) Epidemiology: Theory and Practice [GLHLTH 792]
- 2015 Bass Connections - Evaluation of Scaling Innovative Healthcare Delivery in East Africa [GLHLTH 395.01/795.07]

STUDENTS ADVISED

Master's Thesis Committee Chair

- 2023-2025 Kiara Ekeigwe,, MSc-GH, Duke Global Health Institute
- 2022-2024 Parker Betts, MSc-GH, Duke Global Health Institute
Adolescent Wellness Visits: How Self-Efficacy and Perceived Risk of HIV Influence Testing Avoidance
- 2020-2022 Haotian Ruan, MSc-GH, Duke Global Health Institute (Co-supervisor with Tazeen Jafar)
Blood Pressure Control by Multi-Component Intervention: An Exploratory Mediation Analysis of the SingHypertension Trial
- 2020-2022 Alyssa Martinez, MSc-GH, Duke Global Health Institute
Hopefulness Among Individuals Living with Schizophrenia and their Caregivers in Tanzania: An Actor-Partner Interdependence Model
- 2019- 2021 Rosarito Clari Yaluff, MSc-GH, Duke Global Health Institute (with Joy Noel Baumgartner)
Perceived Burden and Family Functioning among Informal Caregivers of Individuals Living with Schizophrenia in Tanzania: A Cross-Sectional Study
- 2017- 2019 Min Kyung Kim, MSc-GH, Duke Global Health Institute. Thesis title: "Validity of a Medical Record in Measuring the Quality of Obstetric Services in Rural Clinics in Greater Masaka District, Uganda"
- 2016-2018 Yixuan Li, MSc-GH, Duke Global Health Institute. Thesis title: "An Outcome Evaluation of LifeNet Partograph Training in Masaka, Uganda"

Master's Thesis Committee Membership

- 2022 - 2024 Fatima Miraj, MSc-GH, Duke Global Health Institute

2022 - 2024 Hannah Medsker, MSc-GH, Duke Global Health Institute

2022 - 2024 Purity Chepkoech, MSc-GH, Duke Global Health Institute

2021 – 2023 Paula Njeru, MSc-GH, Duke Global Health Institute

2021 – 2023 Kayla Hendrickson, MSc-GH, Duke Global Health Institute

2021 – 2023 Tao He, MSc-GH, Duke Global Health Institute

2021 – 2023 Ei Ei Swe, MSc-GH, Duke Global Health Institute

2021 – 2023 Kunyuan (Skye) Luang, MSc-GH, Duke Global Health Institute

2021 – 2023 Damion Brown, MSc-GH, Duke Global Health Institute

2020 – 2022 Colin Smith, MSc-GH, Duke Global Health Institute

2020 – 2022 Shanti Narayanasamy, MSc-GH, Duke Global Health Institute

2020 – 2022 Sofia Zavala, MSc-GH, Duke Global Health Institute

2019 – 2021 Natalie Vance, MSc-GH, Duke Global Health Institute

2019 – 2021 Grace Lowitzer, MSc-GH, Duke Global Health Institute

2019 – 2021 Alvan Ukachukwu, MSc-GH, Duke Global Health Institute

2019 – 2021 Waseem Akhter, MSc-GH, Duke Global Health Institute

2019 – 2021 Ziqi Zhang, MSc-GH, Duke Global Health Institute

2019 – 2021 Xinqi Zhang, MSc-GH, Duke Global Health Institute

2018 – 2020 Laura Mkumba, MSc-GH, Duke Global Health Institute

2018 – 2020 John Bollinger, MSc-GH, Duke Global Health Institute

2018 – 2020 Chris Hayes, MSc-GH, Duke Global Health Institute

2018 – 2020 Jacob Stocks, MSc-GH, Duke Global Health Institute

2018 – 2020 John Bonnewell, MSc-GH, Duke Global Health Institute, Hubert Yeargan

2017 – 2019 Kristie Kusibab, Biostatistics & Bioinformatics, Duke University

2017 – 2019 Ruoyu Hu, MSc-GH, Duke Global Health Institute

2017 – 2019 Xiaoxu Deng, MSc-GH, Duke Global Health Institute

2017 – 2019 Yolande Pokam Tchuisseu, MSc-GH, Duke Global Health Institute

2016 – 2018 Allia Vaez, MSc-GH, Duke Global Health Institute

2016 – 2018 Naomie Kadima, MSc-GH, Duke Global Health Institute

2016 – 2018 Payal Chakraborty, MSc-GH, Duke Global Health Institute

2016 – 2018 Danni Zhao, MSc-GH, Duke Global Health Institute

2016 – 2018 Crissi Rainer, MSc-GH, Duke Global Health Institute

2016 – 2018 Titus N'geno, MSc-GH, Duke Global Health Institute

2015 – 2017 Loise Ng'ang'a, MSc-GH, Duke Global Health Institute

2015 – 2017 Yujung Choi, MSc-GH, Duke Global Health Institute

2015 – 2017 Daphne Wang, MSc-GH, Duke Global Health Institute

2015 – 2017 Phoebe Huo, MSc-GH, Duke Global Health Institute

2014 – 2016 Ben Kuo, MSc-GH, Duke Global Health Institute

2014 – 2016 Nanjala Wafula, MSc-GH, Duke Global Health Institute

2014 – 2016 Natalie Skeiky, MSc-GH, Duke Global Health Institute

2014 – 2016 Starling Shan, MSc-GH, Duke Global Health Institute

2013 – 2015 Eeshan Khandekar, MSc-GH, Duke Global Health Institute

2013 – 2015 Laura Lewandowski, MSc-GH, Duke Global Health Institute

2013 – 2015 Tu Tran, MSc-GH, Duke Global Health Institute

2013 – 2015 John Stanifer, MSc-GH, Duke Global Health Institute

Doctoral Thesis Committee Membership

2023 - current Isaac Lema, Muhimbili University for Health and Allied Sciences (MUHAS), Department of Psychiatry and Mental Health.

2017- 2021 Justin Lana, Nicholas School of the environment, Duke University, *The epidemiology of American cutaneous leishmaniasis in Peru.*

2012-2015 Emily D'Agostino, CUNY School of Public Health, *The effects of health-related fitness on school attendance in New York City 6th-8th grade youth.*

Additional advising and mentorship

DGHI MSc-GH thesis support (approximately 200 students, 2013-2022), Rachel Mundaden (B.S., 2022), Shae Nicolaisen (B.S., 2022), Azana Green (B.S., 2022), Emily Woodrow (B.S., 2021), Monica Desjardins (B.S. 2021), Natalie Yu (B.S. 2019), Sehj Kashyap (Duke Medical School, 2016-2017), Elisa Maffioli (PhD, Department of Economics, Duke University, 2016-2017), Hussain Lalani (Duke Medical School, 2015-2017), Doris Duke Scholars (6 scholars, 2014-2015), Lorena Garcia (B.S., 2016), Kelsey Sumner (B.S., 2016), Madeline Cetlin (B.S., 2016), Jose Sandoval Jr. (B.S., 2016), Hanan Awel (B.S., 2016),

Committees & Panels

Member, Consortium of Universities for Global Health (CUGH) subcommittee on competencies, education committee (2021- present)

Member, Masters Advisory Committee, The Graduate School, Duke University (2024-present)

Member, DGHI MS-GH competencies committee (2021-present)

Reviewer, DGHI MS-GH applications committee (2013-present)

Education committee, Society for Epidemiologic Research (2017-2020)

Member, advisory committee, DGHI Evidence Lab (2014-2020)

Chair, Social Entrepreneurship Accelerator at Duke (SEAD) research committee (2013-2017)

Advisory board member, SECURED (NCSSM Student vector-borne disease NGO)

Professional Affiliations

- 2013- Institutional member, Consortium of Universities for Global Health
- 2019- Invited delegate, Skoll World Forum, Oxford, UK
- 2010- Member, Society for Epidemiologic Research
- 2010- Member, American Public Health Association
- 2015-2018 Research Fellow, Innovation & Entrepreneurship Initiative, Duke University

REFEREE/REVIEWER

- 2021 Judge, CUGH student poster prize, annual meeting
- 2020 Judge, Society Epidemiologic Research poster prize, annual meeting
- 2019- Reviewer, *Stars in Global Health*, Grand Challenges Canada
- 2015- Reviewer, Duke Bass Connections Applications, Duke University
- 2013- Member, MSc-GH admission review committee, DGHI

Peer-review activities (ad hoc)

Health Services Research, Emerging Infectious Diseases, PLoS One, Bulletin of the World Health Organization, Health Policy and Planning, BMC Public Health, Journal of Communication in Healthcare: Strategies, Media and Engagement in Global Health, International Society for Disease Surveillance

PUBLICATIONS¹

National Library of Medicine Bibliography

<https://www.ncbi.nlm.nih.gov/myncbi/joseph%20richard.egger.1/bibliography/public/>

1. Moorthy, G.S., Madut, D.B., Kilonzo, K.G., Lwezaula, B.F., Mbwasi, R., Mmbaga, B.T., Ngocho, J.S., Saganda, W., Bonnewell, J.P., Carugati, M., et al. (2023). Antibacterial Utilization for Febrile Illnesses and Laboratory-Confirmed Bloodstream Infections in Northern Tanzania. *Open Forum Infect. Dis.* 10, ofad448.

2. Navuluri, N., Lagat, D.K., Birgen, E., Kitur, S., Kussin, P.S., Murdoch, D.M., Thielman, N.M.,

¹ 1-3,4-60

- Parish, A., Green, C.L., MacIntyre, N., et al. (2023). Prevalence and phenotypic trajectories of hypoxaemia among hospitalised adults in Kenya: a single-centre, prospective cohort study. *BMJ Open* 13, e072111.
3. Mulawa, M.I., Hoare, J., Knippler, E.T., Mtukushe, B., Matiwane, M., Muessig, K.E., Al-Mujtaba, M., Wilkinson, T.H., Platt, A., Egger, J.R., et al. (2023). MASI, a smartphone app to improve treatment adherence among south african adolescents and young adults with HIV: protocol for a pilot randomized controlled trial. *JMIR Res. Protoc.* 12, e47137.
4. Jin, F.Q., Huang, O., Kleindienst Robler, S., Morton, S., Platt, A., Egger, J.R., Emmett, S.D., and Palmeri, M.L. (2023). A hybrid deep learning approach to identify preventable childhood hearing loss. *Ear Hear.* 44, 1262–1270.
5. Emmett, S.D., Platt, A., Gallo, J.J., Labrique, A.B., Wang, N.-Y., Inglis-Jenson, M., Jenson, C.D., Hofstetter, P., Hicks, K.L., Ross, A.A., et al. (2023). Prevalence of childhood hearing loss in rural alaska. *Ear Hear.* 44, 1240–1250.
6. Navuluri, N., Lagat, D., Egger, J.R., Birgen, E., Diero, L., Murdoch, D.M., Thielman, N., Kussin, P.S., Que, L.G., and Paul, D. (2023). Asthma, Airflow Obstruction, and Eosinophilic Airway Inflammation Prevalence in Western Kenya: A Population-Based Cross-Sectional Study. *Int. J. Public Health* 68,.
7. Martinez, A., Baumgartner, J.N., Kaaya, S., Swai, P., Lawala, P.S., Thedai, B., Minja, A., Headley, J., and Egger, J.R. (2023). Hopefulness among individuals living with schizophrenia and their caregivers in Tanzania: an actor-partner interdependence model. *BMC Psychiatry* 23, 508.
8. Hagey, J.M., Kirya, J., Kaggwa, J., Headley, J., Egger, J.R., and Baumgartner, J.N. (2023). Timeliness of Delivery Care and Maternal and Neonatal Health Outcomes in Private Facilities in Masaka Area, Uganda: A Quasi-Experimental Study. *Matern. Child Health J.*
9. Ukachukwu, A.-E.K., Still, M.E.H., Seas, A., von Isenburg, M., Fieggen, G., Malomo, A.O., Shokunbi, M.T., Egger, J.R., Haglund, M.M., and Fuller, A.T. (2023). Fulfilling the specialist neurosurgical workforce needs in Africa: a systematic review and projection toward 2030. *J. Neurosurg.* 138, 1102–1113.
10. Robler, S.K., Platt, A., Jenson, C.D., Meade Inglis, S., Hofstetter, P., Ross, A.A., Wang, N.-Y., Labrique, A., Gallo, J.J., Egger, J.R., et al. (2023). Changing the paradigm for school hearing screening globally: evaluation of screening protocols from two randomized trials in rural alaska. *Ear Hear.*
11. Hicks, K.L., Robler, S.K., Simmons, R.A., Ross, A., Egger, J.R., and Emmett, S.D. (2023). Hearing-related quality of life in children and adolescents in rural Alaska. *Laryngoscope Investig. Otolaryngol.* 8, 269–278.

12. Hicks, K.L., Robler, S.K., Platt, A., Morton, S.N., Egger, J.R., and Emmett, S.D. (2023). Environmental Factors for Hearing Loss and Middle Ear Disease in Alaska Native Children and Adolescents: A Cross-Sectional Analysis from a Cluster Randomized Trial. *Ear Hear.* *44*, 2–9.
13. Kim, E.T., Zhou, Y., Mugenyi, L., Lillie, M., Bbosa, J.K., Agaba, C., Ojok, A.M., Hembling, J., Ruhangawebare, G.K., Miller, C., et al. (2022). Impact of the Child-optimized Financial Education (COFE) curriculum among savings group participants in Uganda: A cluster randomised controlled trial. *Journal of Development Effectiveness* 1–13.
14. Egger, J.R., Han, K.T., Fang, H., Zhou, X.N., Hlaing, T.M., Thant, M., Han, Z.Y., Wang, X.X., Hong, T., Platt, A., et al. (2022). Temporal dynamics of subclinical malaria in different transmission zones of myanmar. *Am. J. Trop. Med. Hyg.* *107*, 669–680.
15. Smith, C.M., Turner, N.A., Thielman, N.M., Tweedy, D.S., Egger, J., and Gagliardi, J.P. (2022). Association of black race with physical and chemical restraint use among patients undergoing emergency psychiatric evaluation. *Psychiatr. Serv.* *73*, 730–736.
16. Emmett, S.D., Platt, A., Turner, E.L., Gallo, J.J., Labrique, A.B., Inglis, S.M., Jenson, C.D., Parnell, H.E., Wang, N.-Y., Hicks, K.L., et al. (2022). Mobile health school screening and telemedicine referral to improve access to specialty care in rural Alaska: a cluster- randomised controlled trial. *Lancet Glob. Health* *10*, e1023–e1033.
17. Ngeno, G.T.K., Barasa, F., Kamano, J., Kwobah, E., Wambui, C., Binanay, C., Egger, J.R., Kussin, P.S., Thielman, N.M., and Bloomfield, G.S. (2022). Feasibility of cardiac rehabilitation models in kenya. *Ann. Glob. Health* *88*, 7.
18. Clari, R., Headley, J., Egger, J., Swai, P., Lawala, P., Minja, A., Kaaya, S., and Baumgartner, J.N. (2022). Perceived burden and family functioning among informal caregivers of individuals living with schizophrenia in Tanzania: a cross-sectional study. *BMC Psychiatry* *22*, 10.
19. Baumgartner, J.N., Headley, J., Kirya, J., Guenther, J., Kaggwa, J., Kim, M.K., Aldridge, L., Weiland, S., and Egger, J. (2021). Impact evaluation of a maternal and neonatal health training intervention in private Ugandan facilities. *Health Policy Plan.* *36*, 1103–1115.
20. Kim, M.K., Baumgartner, J.N., Headley, J., Kirya, J., Kaggwa, J., and Egger, J.R. (2021). Medical record bias in documentation of obstetric and neonatal clinical quality of care indicators in Uganda. *J. Clin. Epidemiol.* *136*, 10–19.
21. Hightow-Weidman, L., Muessig, K.E., Egger, J.R., Vecchio, A., and Platt, A. (2021). Epic Allies: A Gamified Mobile App to Improve Engagement in HIV Care and Antiretroviral Adherence among Young Men Who have Sex with Men. *AIDS Behav.* *25*, 2599–2617.
22. Gallis, J.A., Kusibab, K., Egger, J.R., Olsen, M.K., Askew, S., Steinberg, D.M., and Bennett, G. (2020). Can electronic health records validly estimate the effects of health system

interventions aimed at controlling body weight? *Obesity (Silver Spring)* 28, 2107–2115.

23. Olson, A.C., Afyusisye, F., Egger, J., Noyd, D., Likonda, B., Masalu, N., Suneja, G., Chao, N., Zullig, L.L., and Schroeder, K. (2020). Cancer incidence and treatment utilization patterns at a regional cancer center in Tanzania from 2008-2016: Initial report of 2,772 cases. *Cancer Epidemiol.* 67, 101772.

24. Hightow-Weidman, L., Muessig, K., Egger, J.R., LeGrand, S., and Platt, A. (2020). Predictors of Condomless Anal Intercourse in Young HIV-Positive Men Who Have Sex With Men With Detectable Viral Loads. *J. Adolesc. Health* 66, 672–683.

25. Egger, J.R., Headley, J., Li, Y., Kim, M.K., Kirya, J., Aldridge, L., Weiland, S., and Baumgartner, J.N. (2020). Beneath the surface: A comparison of methods for assessment of quality of care for maternal and neonatal health care in rural uganda. *Matern. Child Health J.* 24, 328–339.

26. Simmons, R.A., and Egger, J.R. (2019). A CACE for assessing non-compliance: Addressing non-compliance in randomised controlled trials. *BJOG* 126, 1558–1559.

27. Berger, M.B., Steinberg, D.M., Askew, S., Gallis, J.A., Treadway, C.C., Egger, J.R., Kay, M.C., Batch, B.C., Finkelstein, E.A., DeVries, A., et al. (2019). The Balance protocol: a pragmatic weight gain prevention randomized controlled trial for medically vulnerable patients within primary care. *BMC Public Health* 19, 596.

28. Hightow-Weidman, L.B., LeGrand, S., Muessig, K.E., Simmons, R.A., Soni, K., Choi, S.K., Kirschke-Schwartz, H., and Egger, J.R. (2019). A randomized trial of an online risk reduction intervention for young black MSM. *AIDS Behav.* 23, 1166–1177.

29. Khandekar, E., Kramer, R., Ali, A.S., Al-Mafazy, A.-W., Egger, J.R., LeGrand, S., Mkali, H.R., McKay, M., and Ngondi, J.M. (2019). Evaluating Response Time in Zanzibar's Malaria Elimination Case-Based Surveillance-Response System. *Am. J. Trop. Med. Hyg.* 100, 256–263.

30. LeGrand, S., Muessig, K.E., Platt, A., Soni, K., Egger, J.R., Nwoko, N., McNulty, T., and Hightow-Weidman, L.B. (2018). Epic allies, a gamified mobile phone app to improve engagement in care, antiretroviral uptake, and adherence among young men who have sex with men and young transgender women who have sex with men: protocol for a randomized controlled trial. *JMIR Res. Protoc.* 7, e94.

31. Lalani, H.S., Waweru-Siika, W., Mwogi, T., Kituyi, P., Egger, J.R., Park, L.P., and Kussin, P.S. (2018). Intensive care outcomes and mortality prediction at a national referral hospital in western kenya. *Ann. Am. Thorac. Soc.* 15, 1336–1343.

32. Paul, D.W., Lagat, D.K., MacIntyre, N., Egger, J.R., Murdoch, D.M., Que, L.G., and Kussin, P.S. (2018). Validation of spirometry prediction equations in western Kenya. *Int. J. Tuberc. Lung Dis.* 22, 112–118.

33. Egger, J.R., Stankevitz, K., Korom, R., Angwenyi, P., Sullivan, B., Wang, J., Hatfield, S., Smith, E., Popli, K., and Gross, J. (2017). Evaluating the effects of organizational and educational interventions on adherence to clinical practice guidelines in a low-resource primary-care setting in Kenya. *Health Policy Plan.* *32*, 761–768.
34. Hightow-Weidman, L., LeGrand, S., Choi, S.K., Egger, J., Hurt, C.B., and Muessig, K.E. (2017). Exploring the HIV continuum of care among young black MSM. *PLoS ONE* *12*, e0179688.
35. Kuo, B.J., Vissoci, J.R.N., Egger, J.R., Smith, E.R., Grant, G.A., Haglund, M.M., and Rice, H.E. (2017). Perioperative outcomes for pediatric neurosurgical procedures: analysis of the National Surgical Quality Improvement Program-Pediatrics. *J. Neurosurg. Pediatr.* *19*, 361–371.
36. Stanifer, J.W., Cleland, C.R., Makuka, G.J., Egger, J.R., Maro, V., Maro, H., Karia, F., Patel, U.D., Burton, M.J., and Philippin, H. (2016). Prevalence, Risk Factors, and Complications of Diabetes in the Kilimanjaro Region: A Population-Based Study from Tanzania. *PLoS ONE* *11*, e0164428.
37. Stanifer, J.W., Turner, E.L., Egger, J.R., Thielman, N., Karia, F., Maro, V., Kilonzo, K., Patel, U.D., and Yeates, K. (2016). Knowledge, Attitudes, and Practices Associated with Chronic Kidney Disease in Northern Tanzania: A Community-Based Study. *PLoS ONE* *11*, e0156336.
38. Stanifer, J.W., Egger, J.R., Turner, E.L., Thielman, N., Patel, U.D., and Comprehensive Kidney Disease Assessment for Risk factors, epidemiology, Knowledge, and Attitudes (CKD AFRiKA) Study (2016). Neighborhood clustering of non-communicable diseases: results from a community-based study in Northern Tanzania. *BMC Public Health* *16*, 226.
39. Lunyera, J., Stanifer, J.W., Ingabire, P., Etolu, W., Bagasha, P., Egger, J.R., Patel, U.D., Mutungi, G., and Kalyesubula, R. (2016). Prevalence and correlates of proteinuria in Kampala, Uganda: a cross-sectional pilot study. *BMC Res. Notes* *9*, 97.
40. Park, P.H., Wambui, C.K., Atieno, S., Egger, J.R., Misoi, L., Nyabundi, J.S., Pastakia, S.D., Bloomfield, G.S., and Kamano, J.H. (2015). Erratum. Improving diabetes management and cardiovascular risk factors through peer-led self-management support groups in western Kenya. *Diabetes Care* *2015;38:e110-e111*. *Diabetes Care* *38*, 1993.
41. Park, P.H., Wambui, C.K., Atieno, S., Egger, J.R., Misoi, L., Nyabundi, J.S., Pastakia, S.D., Bloomfield, G.S., and Kamano, J.H. (2015). Improving Diabetes Management and Cardiovascular Risk Factors Through Peer-Led Self-management Support Groups in Western Kenya. *Diabetes Care* *38*, e110-1.
42. Stanifer, J.W., Maro, V., Egger, J., Karia, F., Thielman, N., Turner, E.L., Shimbi, D., Kilaweh, H., Matem, O., and Patel, U.D. (2015). The epidemiology of chronic kidney disease in Northern Tanzania: a population-based survey. *PLoS ONE* *10*, e0124506.
43. Xie, G., Laskowitz, D.T., Turner, E.L., Egger, J.R., Shi, P., Ren, F., Gao, W., and Wu, Y. (2014).

Baseline health-related quality of life and 10-year all-cause mortality among 1739 Chinese adults. *PLoS ONE* 9, e101527.

44. Sumner, S.A., Pallangyo, A.J., Reddy, E.A., Maro, V., Pence, B.W., Lynch, C., Turner, E.L., Egger, J.R., and Thielman, N.M. (2014). Effect of free distribution of safety equipment on usage among motorcycle-taxi drivers in Tanzania--A cluster randomised controlled trial. *Injury* 45, 1681–1686.

45. Wilson, E.L., Egger, J.R., Konty, K.J., Paladini, M., Weiss, D., and Nguyen, T.Q. (2014). Description of a school nurse visit syndromic surveillance system and comparison to emergency department visits, New York City. *Am. J. Public Health* 104, e50-6.

46. Agolory, S.G., Barbot, O., Averhoff, F., Weiss, D., Wilson, E., Egger, J., Miller, J., Ogbuanu, I., Walton, S., and Kahn, E. (2013). Implementation of non-pharmaceutical interventions by New York City public schools to prevent 2009 influenza A. *PLoS ONE* 8, e50916.

47. Weisfuse, I.B., Tsibane, T., Konty, K.J., Egger, J.R., Waddell, E.N., Rahmat, S., Harris, E., Olson, D.R., and Basler, C.F. (2012). Seroprevalence of pandemic influenza viruses, New York, New York, USA, 2004. *Emerging Infect. Dis.* 18, 1905–1907.

48. Egger, J.R., Hoen, A.G., Brownstein, J.S., Buckeridge, D.L., Olson, D.R., and Konty, K.J. (2012). Usefulness of school absenteeism data for predicting influenza outbreaks, United States. *Emerging Infect. Dis.* 18, 1375–1377.

49. Egger, J.R., Konty, K.J., Wilson, E., Karpati, A., Matte, T., Weiss, D., and Barbot, O. (2012). The effect of school dismissal on rates of influenza-like illness in New York City schools during the spring 2009 novel H1N1 outbreak. *J. Sch. Health* 82, 123–130.

50. Drobnik, A., Judd, C., Banach, D., Egger, J., Konty, K., and Rude, E. (2011). Public health implications of rapid hepatitis C screening with an oral swab for community-based organizations serving high-risk populations. *Am. J. Public Health* 101, 2151–2155.

51. Egger, J.R., Konty, K.J., Borrelli, J.M., Cumiskey, J., and Blank, S. (2010). Monitoring temporal changes in the specificity of an oral HIV test: a novel application for use in postmarketing surveillance. *PLoS ONE* 5, e12231.

52. Presanis, A.M., De Angelis, D., New York City Swine Flu Investigation Team, Hagy, A., Reed, C., Riley, S., Cooper, B.S., Finelli, L., Biedrzycki, P., and Lipsitch, M. (2009). The severity of pandemic H1N1 influenza in the United States, from April to July 2009: a Bayesian analysis. *PLoS Med.* 6, e1000207.

53. Konty, K., Egger, J.R., Kerker, B.D., Maldin, B., and Raphael, M. (2009). Letter Regarding: Piegorsch, W.W., Cutter, S.L., and Hardisty, F. (2007). Benchmark analysis for quantifying urban vulnerability to terrorist incidents. *Risk Analysis*, 27(6), 1411-1425. *Risk Anal.* 29, 1199–1200;

author reply 1201.

54. Laferrère, B., Teixeira, J., McGinty, J., Tran, H., Egger, J.R., Colarusso, A., Kovack, B., Bawa, B., Koshy, N., Lee, H., et al. (2008). Effect of weight loss by gastric bypass surgery versus hypocaloric diet on glucose and incretin levels in patients with type 2 diabetes. *J. Clin. Endocrinol. Metab.* *93*, 2479–2485.
55. Egger, J.R., Ooi, E.E., Kelly, D.W., Woolhouse, M.E., Davies, C.R., and Coleman, P.G. (2008). Reconstructing historical changes in the force of infection of dengue fever in Singapore: implications for surveillance and control. *Bull. World Health Organ.* *86*, 187–196.
56. Egger, J.R., and Coleman, P.G. (2007). Age and clinical dengue illness. *Emerging Infect. Dis.* *13*, 924–925.
57. Fenton, J.J., Egger, J., Carney, P.A., Cutter, G., D’Orsi, C., Sickles, E.A., Fosse, J., Abraham, L., Taplin, S.H., Barlow, W., et al. (2006). Reality check: perceived versus actual performance of community mammographers. *AJR Am J Roentgenol* *187*, 42–46.
58. Egger, J.R., Cutter, G.R., Carney, P.A., Taplin, S.H., Barlow, W.E., Hendrick, R.E., D’Orsi, C.J., Fosse, J.S., Abraham, L., and Elmore, J.G. (2005). Mammographers’ perception of women’s breast cancer risk. *Med. Decis. Making* *25*, 283–289.
59. Hendrick, R.E., Cutter, G.R., Berns, E.A., Nakano, C., Egger, J., Carney, P.A., Abraham, L., Taplin, S.H., D’Orsi, C.J., Barlow, W., et al. (2005). Community-based mammography practice: services, charges, and interpretation methods. *AJR Am J Roentgenol* *184*, 433–438.
60. Elmore, J.G., Carney, P.A., Abraham, L.A., Barlow, W.E., Egger, J.R., Fosse, J.S., Cutter, G.R., Hendrick, R.E., D’Orsi, C.J., Paliwal, P., et al. (2004). The association between obesity and screening mammography accuracy. *Arch. Intern. Med.* *164*, 1140–1147.

Invited presentations

Muhimbili University of Health and Allied Sciences (MUHAS), Department of Psychiatry and Mental Health. November 15, 2024. **Statistical significance testing and use of the p-value in causal inference** (oral presentation)

Muhimbili University of Health and Allied Sciences (MUHAS), Department of Psychiatry and Mental Health. June 8, 2023. **Underlying Mechanisms of Action** (oral presentation)

Consortium of Universities for Global Health, 2022 Annual meeting (virtual). **Hopefulness Among Individuals Living with Schizophrenia and Caregivers in Tanzania: An Actor-Partner Interdependence Model** (Poster presentation, coauthored with Msc-GH student, Alyssa Martinez).

American Society of Tropical Medicine & Hygiene, 2020, Annual Meeting (remote). **Dynamics of subclinical malaria detected by ultrasensitive PCR in different transmission zones of Myanmar and along its border with China** (poster presentation).

KUPAA R34 Training Workshop, March 12th, 2020, Mbeya Referral Hospital. **Causal Mediation Analysis in Randomized Controlled Trials**.

Psychiatric epidemiology training program seminar series, January 24th, 2020, Columbia University. **Causal mediation analysis for an individually-randomized group treatment trial of a psychosocial intervention in Tanzania**.

International Centers of Excellence for Malaria Research (ICEMR), 2019 Annual Meeting (NIH). Nairobi Kenya. **Temporal patterning and misclassification of subclinical malaria infection in a population-based cohort in Myanmar** (oral presentation).

Society for Epidemiologic Research, 2019, Annual meeting, Minneapolis, MN. **Two Simple Bias Analysis Methods to Correct Outcome Misclassification in Medical Records: Application for Quality Measurement of Obstetric Services in Uganda** (Poster presentation, coauthored with Msc-GH student, MK Kim)

Consortium of Universities for Global Health, 2019, Annual meeting, Chicago, IL. **Validity of a Medical Record to Measure the Quality of Obstetric Services in Rural Clinics in Greater Masaka District, Uganda** (Poster presentation, coauthored with Msc-GH student, MK Kim)

American Public Health Association, 2017, Annual Meeting, Atlanta, GA. **Obesity Incidence and Improving the Characterization of BMI Transitioning through Childhood** (Poster presentation).

Duke Data Visualization Friday Forum, September 2017, Duke LSRC. **Visualizing Human Populations and Data Sampling for Global Health Research** (Oral presentation).

Obesity Week, 2015, Annual Meeting, Los Angeles, CA. **Long-term weight gain prevention among women in primary care** (Poster presentation).

Consortium for Universities in Global Health, 2015, Annual Meeting, Boston, MA. **Evaluating the effects of organizational and educational interventions on adherence to clinical practice guidelines in a low resource primary care setting in Kenya** (Poster presentation).

International Society for Disease Surveillance, 2012 Annual Meeting, San Diego, CA. **Evaluation of Clinical and Administrative Data to Augment Public Health Surveillance** (Oral presentation).

North Carolina Healthcare Informatics and Communications Alliance, Informatics Workgroup, 2012, Research Triangle Park, NC. **The use of medical claims and electronic health record data to improve healthcare surveillance and clinical quality measurement** (Oral presentation).

Centers for Disease Control & Prevention, Statistics Advisory Group, 2011, Atlanta, GA. **Evaluation of Clinical and Administrative Data to Augment Public Health Surveillance** (Oral presentation).

American Public Health Association, 2011 Annual Meeting, Washington, DC. ***Rapid hepatitis C screening using an oral swab: Public health implications for community-based organizations serving high-risk populations*** (Poster presentation).

Society for Epidemiologic Research, 2010 Annual Meeting, Seattle, WA. ***Monitoring Temporal Changes in the Specificity of an Oral HIV Test*** (Poster presentation).

International Society for Disease Surveillance, 2010 Annual Meeting, Park City, UT. ***Usefulness of School Absenteeism Data for Predicting Influenza Outbreaks, United States*** (Oral presentation).

International Society for Disease Surveillance, 2009 Annual Meeting, Miami, FL. ***The Effect of School Dismissal on Rates of Influenza-Like Illness in New York City Schools during the Spring 2009 Novel H1N1 Outbreak*** (Oral presentation).

Johns Hopkins University, Department of Epidemiology, 2009, Baltimore, MD. ***The Effect of School Dismissal on Rates of Influenza-Like Illness in New York City Schools during the Spring 2009 Novel H1N1 Outbreak*** (Oral presentation).

Second International Congress on Dengue and Yellow Fever, 2004, Havana, Cuba, 2004. ***A Political Ecological Analysis of the Emergence and Proliferation of Dengue and Dengue Hemorrhagic Fever in Port of Spain, Trinidad and Tobago*** (Poster presentation).

Association of American Geographers, 2004 Annual Meeting, Philadelphia, PA. ***Building on a Political Ecological Framework of Infectious Disease*** (Oral presentation).

Grant and Contract Awards

NIH/NIDCD, 2020-2022 (Co-investigator). Multifactorial Determinants of Childhood Hearing Loss in Rural Alaska. \$135,000

NIH/NICHD, 2020-2025 (Co-investigator; Duke site PI). Adolescent Wellness Visits in Tanzania: Bundling evidence-based prevention services to increase uptake of HIV Testing and Counseling and other health services. \$312,557

National Institutes of Allergy and Infectious Diseases, 2017-2024 (Co-investigator and Core Lead 001: Biostatistics and Data Management). Myanmar Center of Excellence for Malaria Research. \$6,913,346

LifeNet International, 2017-2018 (Co-Principal Investigator). Evaluation of LifeNet International's training program on maternal and neonatal quality of care in partner clinics in Masaka District, Uganda. \$144,346.00

National Institute of Diabetes and Digestive and Kidney Diseases, 2017-2020 (Co-investigator). Family psychoeducation for adults with psychotic disorders in Tanzania [Grant No. 1 R34MH106663-01A1, \$234,634]

National Institute of Mental Health, 2016-2019 (Co-investigator). A Pragmatic Trial of a Digital Health Intervention to Prevent Weight Gain in Primary Care [Grant No. 1 R18 DK109518-01, \$3,769,470]

National Institutes of Health, Small Business Innovation Research Program, 2014-2017 (Co-investigator). Epic Allies: A smartphone app for ART uptake and adherence among YMSM [Grant No. 2 R44 MH102096-02]

National Institutes of Mental Health, 2016-2017 (Lead statistician). *healthMpowerment*: This study aims to evaluate healthMpowerment.org, a website designed to provide health and wellness information and education relevant to young Black men in North Carolina [Grant No. R01 MH093275-01].

Duke University Bass Connections, 2014-2015 (*Global Health* theme, Co-Principal Investigator and lead instructor). Evaluation of Scaling Innovative Healthcare Delivery in East Africa. (\$25,000)

Alfred P. Sloane Foundation, 2010. Augmenting Statistical Methods for Public Health Syndromic Surveillance Systems [Grant No. 2010-12-14, \$1,250,058].

Food and Drug Administration, Center for Biologics Evaluation and Research, Office of Biostatistics and Epidemiology, 2012 (Investigator). A Study on the Impact of Various Bias Parameters on Study Designs Using Quantitative Bias Analysis via Simulations [Contract No. FDA-SOL-1100707, \$310,000].

Centers for Disease Control & Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, 2012 (Investigator). Lung Cancer Screening Surveillance [Contract No. 200-2008-27889, Task Order 18, \$145,000].

Centers for Disease Control & Prevention, National Center for Chronic Disease Prevention and Health Promotion, Health Related Quality of Life Branch, 2012 (Investigator). [Contract No. 200-2008-27889, Task Order 23, \$131,000].

Centers for Disease Control & Prevention, National Center for Injury Prevention and Control, Division of Unintentional Injury Prevention, 2012 (Investigator). Surveillance and Epidemiology of Traumatic Brain Injury [Contract No. 200-2012-M-53715, \$148,987].

Food and Drug Administration, Center for Tobacco Products, 2013 (Co-Investigator). Research to Expand the Evidence Base for the CTP Policy Options [Contract No. HHSF223201310024I,

Single award IDIQ, ceiling: \$35,000,000].

Consulting

Zero Tracing, epidemiology advisor (2016-2018)

London School of Hygiene & Tropical Medicine, P. falciparum malaria vaccine initiative

Food and Drug Administration (SciMetrika), quantitative bias analysis for post-marketing safety surveillance

Centers for Disease Control & Prevention (SciMetrika), use of electronic health records for environmental public health surveillance

Centers for Disease Control & Prevention (SciMetrika), surveillance of lung cancer screening using low dose CT