

## Technical Review Panel Member

### Curriculum Vitae

Name: Prof Thom Eisele  
 Nationality: USA  
 Additional languages: French  
 Expertise: Malaria epidemiology and program evaluation

### Qualifications

| Qualification         | Institution  | Department           | Year |
|-----------------------|--|----------------------|------|
| PhD<br>(Epidemiology) | Tulane School of Public Health and Tropical Medicine | International Health | 2003 |
| MPH                   | Tulane School of Public Health and Tropical Medicine | International Health | 1999 |
| BA                    | University of Texas                                  | Psychology           | 1992 |

### Employment History

| Employer  | Position  | Place               | Year           |
|---|---|---------------------|----------------|
| Department of Tropical Medicine, Tulane School of Public Health and Tropical Medicine | Center Director, Center for Applied Malaria Research and Evaluation | New Orleans, LA USA | 2013 - present |
| Department of Tropical Medicine, Tulane School of Public Health and Tropical Medicine | Professor   | New Orleans, LA USA | 2015 - present |

|   |   |                     |             |
|---|---|---------------------|-------------|
| Department of Global Health Systems and Development, Tulane School of Public Health and Tropical Medicine | Associate Professor                                     | New Orleans, LA USA | 2010 - 2015 |
| International Health and Development, Tulane School of Public Health and Tropical Medicine                | Assistant Professor                                     | New Orleans, LA USA | 2004 - 2010 |
| Center for Disease Control and Prevention   | Mortality Surveillance Section Coordinator (CHC Fellow) | Kisumu, Kenya       | 2000 - 2003 |
| US Peace Corps  | Peace Corps volunteer                                   | Gabon               | 1995 - 1997 |

### Relevant Publications

A complete list of my publications on PubMed (NCIB) can be found at

[https://www.ncbi.nlm.nih.gov/myncbi/1Ly\\_xtnqtR2Ax/bibliography/public/](https://www.ncbi.nlm.nih.gov/myncbi/1Ly_xtnqtR2Ax/bibliography/public/)

1. Druetz T, Stresman G, Ashton RA, van den Hoogen L, Joseph V, Fayette C, Monestime F, Hamre KE, Chang MA, Lemoine JF, Drakeley C & **Eisele TP**. 2020. Programmatic options for monitoring malaria in elimination settings: Easy access group surveys to investigate *Plasmodium falciparum* epidemiology in two regions with differing endemicity in Haiti. *BMC Medicine* 18 (1):1-14.
2. Ashton R, Joseph V, van den Hoogen L, Tetteh K, Stresman G, Worges M, Druetz T, Chang M, Rogier E, Lemoine JF, Drakeley C & **Eisele TP**. 2020. Risk factors for malaria infection and seropositivity in the elimination area of Grand'Anse, Haiti: A case control study among febrile individuals seeking treatment at public health facilities. *Am J Trop Med Hyg* [Epub ahead of print].
3. **Eisele TP**, Bennett A, Silumbe K, Finn TP, Porter TR, Chalwe V, Kamuliwo M, Hamainza B, Moonga H, Kooma E, Chizema-Kawesha E, Kamuliwo M, Yukich J, Keating J, Schneider K, Conner RO, Earle D, Slutsker L, Steketee RW & Miller JM. 2020. Impact of 4 Rounds of Mass Drug Administration with Dihydroartemisinin-piperaquine Implemented in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
4. Finn T, Yukich J, Bennett A, Porter TR, Lungu C, Hamainza B, Chizema-Kwesha E, Conner R, Silumbe K, Steketee WR, Miller JM, Keating J & **Eisele TP**. 2020. Treatment Coverage Estimation for Mass Drug Administration for Malaria with Dihydroartemisinin-Piperaquine in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
5. Finn T, Porter TR, Moonga H, Silumb K, Daniels RF, Volkman S, Yukich J, Keating J, Bennett A, Steketee RW, Miller JM & **Eisele TP**. 2020. *Plasmodium falciparum*

- Clearance and Adherence to Mass Drug Administration of Dihydroartemisinin-piperaquine in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
6. Bennett A, Porter TR, Mwenda M, Yukich J, Finn TP, Lungu C, Silumbe K, Mambwe B, Chishimba S, Mulube C, Bridges D, Hamainza M, Slutsker L, Steketee RW, Miller JM & **Eisele TP**. 2020. A Longitudinal Cohort to Monitor Malaria Infection Incidence during Mass Drug Administration in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
  7. Porter TR, Finn, T, Silumbe K, Chawle V, Hamainza B, Kooma E, Hawela M, Bennett A, Yukich J, Steketee RW, Keating J, Miller JM & **Eisele TP**. 2020. Recent Travel History and Plasmodium falciparum Malaria Infection in a Region of Heterogenous Transmission in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
  8. Yukich J, Scott C, Silumbe K, Larson B, Bennett A, Finn T, Hamainza B, Conner RO, Porter TR, Keating J, Steketee, RW, **Eisele TP** & Miller JM. 2020. Cost-effectiveness of Focal Mass Drug Administration (fMDA) and Mass Drug Administration (MDA) with Dihydroartemisinin-piperaquine (DHAp) for Malaria Prevention in Southern Province, Zambia: Results of a Community Randomized Controlled Trial. *Am J Trop Med Hyg* 103 (2\_Suppl).
  9. Daniels RF, Schaffner SF, Bennett A, Porter TR, Yukich JO, Mulube C, Mambwe B, Mwenda MC, Chishimba S, Bridges DJ, Moonga H, Hamainza B, Chizema-Kawesha E, Miller JM, Steketee RW, Wirth DF, **Eisele TP**, Hartl DL & Sarah K. 2020. Evidence for Reduced Malaria Parasite Population after Application of Population-level Antimalarial Drug Strategies in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
  10. Chishimba S, Mwenda M, Mambwe B, Mulube C, Chalwe V, Moonga H, Hamainza B, Chizema-Kawesha E, Steketee RW, Domingo G, Fraser M, Kahn M, Pal S, Silumbe K, Conner RO, Bennett A, Porter TR, **Eisele TP**, Miller JM & Bridges DJ. 2020. Prevalence of Plasmodium falciparum and Non-falciparum Infections by PET-PCR in a Longitudinal Cohort of Individuals Enrolled in a Mass Drug Administration Trial in Southern Province, Zambia. *Am J Trop Med Hyg* 103 (2\_Suppl).
  11. Fraser M, Miller JM, Silumbe K, Hainsworth M, Mudenda M, Hamainza B, Moonga H, Chizema-Kawesha E, Mercer LD, Bennett A, Schneider K, Slater HC, Eisele TP, Guinovart C. 2020. Evaluating the impact of programmatic mass drug administration for malaria in Zambia using routine incidence data. *J Inf Dis [Epub ahead of print]*.
  12. Van Den Hoogen LL, Stresman G, Pr sum  J, Romilus I, Mond lus G, Elism  T, Existe A, Hamre RES, Ashton RA, Druetz T, Joseph V, Beeson JG, Singh SK, Boncy J, **Eisele TP**, Chang MA, Lemoine JF, Tetteh KA, Rogier E & Drakeley C. 2020. Selection of antibody responses associated with Plasmodium falciparum infections in the context of malaria elimination. *Frontiers in Immunology* 11.
  13. Stresman G, Sep lveda N, Fornace K, Grignard L, Mwesigwa J, Achan J, Miller J, Bridges DJ, Eisele TP, Moshia J, Lorenzo PJ, Macalinao ML, Espino FE, Tadesse F, Stevenson JC, Quispe AM, Siqueira A, Lacerda M, Yeung S, Sovannaroath S, Pothin E, Gallay J, Hamre KE, Young A, Lemoine JF, Chang MA, Phommason K, Mayxay M, Landier J, Parker DM, Von Seidlein L, Nosten F, Delmas G, Dondorp A, Cameron E, Battle K, Bousema T, Gething P, D'Alessandro U & Drakeley C. 2020. Association between the proportion of Plasmodium falciparum and Plasmodium vivax infections detected by passive surveillance and the magnitude of the asymptomatic reservoir in the community: a pooled analysis of paired health facility and community data. *Lancet Infect Dis [Epub ahead of print]*.
  14. Nice J, Nahusenay H, Eckert E, **Eisele TP**, Ashton RA. 2020. Estimating malaria chemoprevention and vector control coverage using program and campaign data: A scoping review of current practices and opportunities. *Journal of Global Health* 10(2).

15. Rogier E, Herman E, Huber CS, Hamre KES, Pierre B, Mace KE, Prsum J, Mondlus G, Romilus I, Elism T, **Eisele TP**, Druetz T, Existe A, Boncy J, Lemoine JF, Udhayakumar V & Chang MA. 2020. Nationwide Monitoring for Plasmodium falciparum Drug-Resistance Alleles to Chloroquine, Sulfadoxine, and Pyrimethamine, Haiti, 2016–2017. *Emerg Infect Dis* 26(5): 902.
16. Rogier E, Hamre KES, Joseph V, Plucinski MM, Presume J, Romilus I, Mondelus G, Elisme T, van den Hoogen L, Lemoine JF, Drakeley C, Ashton RA, Chang MA, Existe A, Boncy J, Stresman G, Druetz T, **Eisele TP**. 2020. Conventional and High-Sensitivity Malaria Rapid Diagnostic Test Performance in Two Transmission Settings: Haiti 2017. *J Inf Dis* 221(5): 786-795.
17. van den Hoogen LL, Prsum J, Romilus I, Mondlus G, Elism T, Seplveda N, Stresman G, Druetz T, Ashton RA, Joseph V, **Eisele TP**, HamreKES, Chang MA, FrantzLemoine J, Tetteh KKA, Boncy J, Existe A, Drakeley C & Rogier R. 2020. Quality control of multiplex antibody detection in samples from large-scale surveys: the example of malaria in Haiti. *Scientific Reports* 10(1): 1-10.
18. Ashton RA, Bennett A, Al-Mafazy A, Abass AK, Msellem MI, McElroy P, Katchur S.P, Ali AS, Yukich J, **Eisele TP** & Bhattarai A. 2019. Use of Routine Health Information System Data to Evaluate Impact of Malaria Control Interventions in Zanzibar, Tanzania from 2000 to 2015. *EClinicalMedicine* 12: 11-19.
19. Rogier E, van den Hoogen L, Herman C, Gurralla K, Joseph V, Stresman G, Presume J, Romilus I, Mondelus G, Elisme T, Ashton R, Chang M, Lemoine JF, Druetz T, **Eisele TP**, Existe A, Boncy J, Drakeley C, Udhayakumar V. 2019. High-throughput malaria serosurveillance using a one-step multiplex bead assay. *Malar J* 18(1): 402
20. Chitnis N, Pemberton Ross P, Yukich J, Hamainza B, Miller JM; Reiker T, **Eisele TP** & Smith TA. 2019. Theory of reactive interventions in the elimination and control of malaria. *Malar J* 18(1): 266.
21. Sitali L, Miller JM, Mwenda MC, Bridges DJ, Hawela MB, Hamainza B, Chizema-Kawesha E, **Eisele TP**, Chipeta J & Lindtjrn B. 2019. Distribution of Plasmodium species and assessment of performance of diagnostic tools used during a malaria survey in Southern and Western Provinces of Zambia. *Malar J*. 18(1): 130.
22. Ashton RA, Doumbia B, Diallo D, Druetz T, Florey L, Taylor C, Arnold F, Mihigo J, Kon D, Fomba S, Eckert E & **Eisele TP**. 2019. Measuring malaria diagnosis and treatment coverage in population-based surveys: a recall validation study in Mali among caregivers of febrile children under 5 years. *Malar J* 18(1): 3
23. Greenhouse B, Daily J, Guinovart C, Goncalves B, Beeson J, Bell D, Chang MA, Cohen JM, Ding X, Domingo G, **Eisele TP**, Lammie PJ, Mayor A, Merienne N, Monteiro W, Painter J, Rodriguez I, White M, Drakeley C, Mueller I & The Malaria Serology Convening. 2019. Priority use cases for antibody-detecting assays of recent malaria exposure as tools to achieve and sustain malaria elimination. *Gates Open Research* 3: 131.
24. Sidibe A, Maglior A, Cueto C, Chen I, Le Menach A, Chang MA, Eisele TP, Andrinopolous K, Cherubin J, Lemoine JF & Bennett A. 2019. Assessing the role of the private sector in surveillance for malaria elimination in Haiti and the Dominican Republic: a qualitative study. *Malar J* 18(1): 408.
25. Druetz T, Andrinopoulos K, Boulos LM, Boulos M, Noland GS, Desir L, Lemoine JF & **Eisele TP**. 2018. "Wherever doctors cannot reach, the sunshine can": overcoming potential barriers to malaria elimination interventions in Haiti. *Malaria J* 17(1): 393.

26. Carter ED, Ndhlovu M, Munos M, Nkhama E, Katz J & **Eisele TP**. 2018. Validity of maternal report of care-seeking for childhood illness. *J Glob Health* 8(1): 010602.
27. Carter ED, Ndhlovu M, **Eisele TP**, Nkhama E, Katz J & Munos M. 2018. Evaluation of methods for linking household and health care provider data to estimate effective coverage of management of child illness: results of a pilot study in Southern Province, Zambia. *J Glob Health* 8(1): 010607.
28. Munos MK, Blanc AK, Carter ED, **Eisele TP**, Gesuale S, Katz J, Marchant T, Stanton CK, Campbell H & Improving Coverage Measurement Group. 2018. Validation studies for population-based intervention coverage indicators: design, analysis, and interpretation. *J Glob Health* 8(2): 020804.
29. Bennett A, Bisanzio D, Yukich JO, Mappin B, Fergus CA, Lynch M, Cibulskis RE, Bhatt S, Weiss DJ, Cameron E, Gething PW & **Eisele TP**. 2017. Population coverage of artemisinin-based combination treatment in children younger than 5 years with fever and Plasmodium falciparum infection in Africa, 2003-2015: a modelling study using data from national surveys. *Lancet Glob Health* 5(4): e418-e427.
30. Cohen JM, Le Menach A, Pothin E, **Eisele TP**, Gething PW, Eckhoff PA, Moonen B, Schapira A & Smith DL, 2017. Mapping multiple components of malaria risk for improved targeting of elimination interventions. *Malaria J* 16: 459.
31. The malERA Refresh Consultative Panel. 2017. malERA: An updated research agenda for characterising the reservoir and measuring transmission in malaria elimination and eradication. *PLoS Med* 14(11):e1002452.
32. The malERA Refresh Consultative Panel. 2017. malERA: An updated research agenda for combination interventions and modelling in malaria elimination and eradication. *PLoS Med* 14(11): e1002453.
33. Gerardin J, Bever CA, Bridenbecker D, Hamainza B, Silumbe K, Miller JM, **Eisele TP**, Eckhoff PA & Wenger A. 2017. Effectiveness of reactive case detection for malaria elimination in three archetypical transmission settings: a modelling study. *Malaria J* 16: 248.
34. Yukich J, Bennett A, Yukich R, Stuck L, Hamainza B, Silumbe K, Smith T, Chitnis N, Steketee RW, Finn T, **Eisele TP** & Miller JM. 2017. Estimation of Malaria Parasite Reservoir Coverage using Reactive Case Detection and Active Community Fever Screening from Census Data with Rapid Diagnostic Tests in Southern Zambia: a Re-sampling Approach. *Malaria J* 16: 317.
35. Ashton R, Bennett A, Yukich J, Bhattarai A, Keating J & **Eisele TP**. 2017. Methodological considerations for use of routine health information system data to evaluate malaria program impact in an era of declining malaria transmission. *Am J Trop Med Hyg* 97 (3\_Suppl): 46-57.
36. Ye Y, **Eisele TP**, Yazoume, Eckert E, Korenromp E, Shah JA, Hershey CL, Ivanovich E, Newby H, Carvajal-Velez L, Lynch M, Komatsu R, Cibulskis RE, Moore Z & Bhattarai A. 2017. Framework for Evaluating the Health Impact of the Scale-up of Malaria Control Interventions on All-cause Child Mortality in sub-Saharan Africa. *Am J Trop Med Hyg* 97 (3\_Suppl): 9-19.
37. Florey LS, Bennet A, Hershey CL, Bhattarai A, Nielson C, Ali D, Luhanga M, Taylor C, **Eisele TP** & Ye Y. 2017. Impact of insecticide-treated net (ITN) ownership on all-cause under-five mortality in Malawi, 2006-2010. *Am J Trop Med Hyg* 97 (3\_Suppl): 65-75.
38. **Eisele TP**, Bennett A, Silumbe K, Finn TP, Chalwe V, Kamuliwo M, Hamainza B, Moonga H, Kooma E, Chizema-Kawesha E, Yukich J, Keating J, Porter T, Conner RO, Earle D, Steketee RW & Miller JM. 2016. Short-term Impact of Mass Drug Administration with dihydroartemisinin+ piperazine on malaria in Southern Province Zambia: a cluster randomized controlled trial. *J Inf Dis* 214: 1831-9.
39. Bennett A, Yukich J, Miller M, Keating J, Moonga H, Hamainza B, Kamuliwo M, Pacheco RA, Vounatsou P, Steketee RW & **Eisele TP**. 2016. The relative contribution

- of climate variability and changes in vector control coverage to changes in malaria parasite prevalence in Zambia 2006-2012. *Parasit Vectors* 9(1): 431.
40. Larsen DA, Bennett A, Silumbe K, Hamainza B, Yukich JO, Keating J, Littrell M, Miller JM, Steketee RW & **Eisele TP**. 2015. Population-wide malaria testing and treatment with rapid diagnostic tests and artemether-lumefantrine in southern Zambia: a community randomized step-wedge control trial design. *Am J Trop Med Hyg* 92(5): 913-921.
  41. Frederick J, St. Jean Y, St. Jean JF, Dotson E, Mace K, Chang M, Slutsker L, Le Menach A, Beier J, **Eisele TP**, Okech B, beau de Rochars B, Carter K, Keating J & Impoinvil D. 2016. Malaria vector research and control in Haiti: a systematic review. *Malar J* 15(1): 376.
  42. Do M, Micah A, **Eisele TP**, Campbell H & Marchant T. 2016. Linking household and facility data for better coverage measures in reproductive, maternal, newborn and child healthcare: a systematic review. *Journal of Global Health* 6(2): 020501.
  43. **Eisele TP**, Silumbe K, Finn T, Chalwe V, Kamuliwo M, Hamainza B, Moonga H, Bennett A, Yukich J, Keating J, Steketee RW & Miller JM. 2015. Assessing the effectiveness of household-level focal mass drug administration and community-wide mass drug administration for reducing malaria parasite infection prevalence and incidence in Southern Province, Zambia: study protocol for a community randomized controlled trial. *Trials* 16(1): 347
  44. Bhatt S, Weiss DJ, Cameron E, Bisanzio D, Mappin B, Dalrymple U, Battle KE, Moyes CL, Henry A, Eckhoff PA, Wenger EA, Briet O, Penny MA, Smith TA, Bennett A, Yukich J, **Eisele TP**, Griffin JT, Fergus CA, Lynch M, Lindgren F, Cohen JM, Murray CLJ, Smith DL, Hay SI, Cibulskis RE & Gething PW. 2015. The effect of malaria control on Plasmodium falciparum in Africa between 2000 and 2015. *Nature* 526: 207-11.
  45. Bhatt S, Weiss DJ, Mappin B, Dalrymple U, Cameron E, Bisanzio D, Smith DL, Moyes CL, Tatem AJ, Lynch M, Fergus CA, Yukich J, Bennett B, **Eisele TP**, Kolaczinski J, Cibulskis RE, Hay SI & Gething PW. 2015. Coverage and system efficiencies of insecticide-treated nets in Africa from 2000 to 2017. *eLife* 4: e09672.
  46. Silumbe K, Yukich JO, Hamainza B, Bennett A, Earle D, Kamuliwo M, Steketee RW, Eisele TP, Miller JM. 2015. Costs and cost-effectiveness of a large scale mass testing and treatment intervention for malaria in Southern Province, Zambia. *Malar J* 14(1): 211.
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52. Kassebaum NJ, Jasrasaria R, Naghavi M, Wulf SK, Johns N, Lozano R, Regan M, Weatherall D, Chou DP, **Eisele TP**, Flaxman SR, Pullan RL, Brooker S & Murray CJ. 2014. A systematic analysis of global anemia burden from 1990 to 2010. *Blood* 123(5): 615-24.
53. Hamainza B, Moonga H, Sikaala CH, Kamuliwo M, Bennett A, **Eisele TP**, Miller J, Seyoum A & Killeen GF. 2014. Monitoring, characterization and control of chronic, symptomatic malaria infections in rural Zambia through monthly household visits by paid community health workers. *Malaria Journal* 13: 128
54. **Eisele TP**, Silumbe K, Yukich J, Hamainza B, Keating J, Bennett A & Miller JM. 2013. Measuring coverage in maternal and child health: Accuracy of measuring diagnosis and treatment of childhood malaria from household surveys in Zambia. *PLoS Med* 10(5): e1001417.
55. **Eisele TP**, Rhoda DA, Cutts FT, Keating J, Ren R, Barros AJD & Arnold F. 2013. Measuring coverage in maternal and child health: total survey error and the interpretation of intervention coverage estimates from household surveys. *PLoS Med* 10(5): e1001386.
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57. Yukich J, Taylor C, **Eisele TP**, Reithinger R, Nauhassenay H, Berhane Y & Keating J. 2013. Travel history and malaria infection risk in a low-transmission setting in Ethiopia: a case control study. *Malaria Journal* 12: 33.
58. Van Eijk AM, Hill J, Larsen DA, Webster J, Steketee RW, **Eisele TP** & ter Kuile FO. 2013. Coverage of intermittent preventive treatment and insecticide-treated nets for the control of malaria during pregnancy in sub-Saharan Africa: a synthesis and meta-analysis of national survey data, 2009-2011. *Lancet Infect Dis* 13(12): 1029-42.
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### **Additional Information**

Dr. Thom Eisele is a Professor in the Department of Tropical Medicine and the Director of the Center for Applied Malaria Research and Evaluation ([www.camre-tulane.org](http://www.camre-tulane.org)) in the Tulane School of Public Health and Tropical Medicine. His research focuses on malaria epidemiology and evaluating malaria control and elimination strategies. Areas of expertise include malaria epidemiology, evaluating the impact of malaria control/elimination strategies, and measurement of malaria intervention coverage and malaria health outcomes. His current research focuses on measuring the impact of malaria elimination strategies in Zambia and Haiti with funding from the Bill & Melinda Gates Foundation. Prof Eisele has led or been involved with generating evidence of the impact of new malaria control and elimination tools using large-scale community randomized controlled trials (CRCTs), including the evaluating the impact of insecticide treated mosquito nets (ITNs) in Kenya, and more recently mass treatment strategies against malaria in Zambia. Prof Eisele has served as a member of the RBM Monitoring and Evaluation Reference Group (since 2003), the WHO Global Malaria Program (GMP) Technical Expert Group on Surveillance Monitoring and Evaluation, the Malaria Eradication Research Agenda (MalERA I and II), the ACTWatch advisory board, the Improve Coverage Measurement core advisory group, the Child Health Epidemiology Reference Group, as well as numerous evidence review groups (ERGs) for the WHO GMP, including those for case management, mass treatment strategies, MDA, malaria in pregnancy and malaria burden estimation.