

CURRICULUM VITAE

John Michael Williamson, Sc.D.

willyinthemix@gmail.com

+1-470-725-6068 (c)

WORK EXPERIENCE

4/2023 - McKing Consulting Corporation, for:
Centers for Disease Control and Prevention (CDC)
Division of Nutrition, Physical Activity and Obesity (DNPAO)
Atlanta, GA
Health Statistician

8/2014 – 6/2022 Centers for Disease Control and Prevention (CDC)
National Center of Global Health (CGH)
Division of Parasitic Diseases and Malaria (DPDM)
Atlanta, GA
Mathematical Statistician

Job Description

Conducted various statistical analyses required by the division and engaged in manuscript writing and presentation of results while working closely with collaborators. Worked on protocol development including study design, randomization, power and sample size calculations, etc.

2/2021 – 9/2021 CDC COVID-19 Response: Vaccine Task Force

Job Description

Conducted various statistical analyses required by the task force. Fit Bayesian model for change in Covid-19 reproduction rate at the US state level.

7/2020 – 10/2020 CDC COVID-19 Response: Modeling Task Force
and 2/2021 – 9/2021

Job Description

Conducted various statistical analyses required by the task force. Provided advice and guidance to the Modeling Task Force on matters related to modeling and statistics. Modeled the weekly reproduction rate at a county level in the United States using a generalized estimating equation model.

8/2009 – 7/2014 KEMRI/CDC Research and Public Health Collaboration
Centers for Disease Control and Prevention
Office of Global Health
Kisumu, Kenya
Senior Statistician

Job Description

Mentored 20+ Kenyan statisticians in the KEMRI/CDC Malaria, TB, HIV-R, DGHA, and GDD branches. Developed and conducted statistical analysis for studies. Advised the KEMRI/CDC Director and professional staff on statistical aspects of studies, project design, and implementation. Had primary responsibility for providing advice, consultation, design, and management guidance on matters related to statistics to KEMRI/CDC. Worked on protocol development including study design, randomization, power and sample size calculations, etc. for all KEMRI/CDC branches. Developed and taught lower-level statistical methods classes to Kenyan statisticians, data analysts, and data managers as well computer packages such as SAS and STATA. Developed and taught introductory epidemiology and statistics to clinicians, public health scientists, study staff, laboratory personal, etc. as well introductory computer packages such as Epi Info.

6/2003 – 7/2009 Centers for Disease Control and Prevention
National Center for Infectious Diseases (NCID)
Division of Parasitic Diseases (DPD)
Atlanta, GA
Senior Statistician

Job Description

A. Served as the senior advisor to the Director, DPD, on all statistical matters as they relate to surveillance, epidemiologic studies, and other statistical matters that relate to the goals and objectives of DPD. Advised the Director and DPD professional staff on statistical aspects of studies, project design, and implementation.

B. Participated in, and advised on, overall program planning and policy formulation for the Division. Brought epidemiologic and statistical knowledge and competence to bear upon the Division's decision-making processes, which included the establishment of long-term goals, program priorities, and standards of performance.

C. Had primary responsibility for providing advice, consultation, design, and management guidance on matters related to statistics to DPD Branches to assure work met the highest quality and ethical standards in these areas. Developed and conducted statistical analysis for studies. Provided expert statistical, information systems design, and technical advice related to formulating strategies and setting priorities.

D. Developed and evaluated new tools in the areas of statistics and epidemiology to be used for disease surveillance, statistical analysis, or management of data relating to studies of parasitic diseases.

E. Allocated available personnel and financial resources in an optimal manner to develop and apply new technologies and methodologies, while maintaining high statistical and data management standards for division activities and educational programs. Set statistical and guidelines for the activities of the two international field stations.

F. Assured the statistical and data management quality of DPD publications and presentations by the review and approval of new protocols, the review and clearance of manuscripts, and participation in Institutional Review Board Clearance, as required.

G. Served as the Statistics Team Leader for a group of 4 statisticians, assigning work, serving as a reference statistician, reviewing output, and providing consultation for statistical planning and analyses of Division projects.

1/2001 – 6/2003 Centers for Disease Control and Prevention
 National Center for HIV, STD, and TB Prevention
 Division of HIV/AIDS Prevention: Behavioral Intervention
 Research Branch
 Atlanta, GA
 Senior Statistician

Job Description

Lead statistician on two large behavioral HIV/AIDS intervention trials, START and INSPIRE. For both trials, involved in the supervision of the ongoing data collection and cleaning and the study monitoring. Conducted various statistical analyses required of the two studies and worked closely with the other statisticians and collaborators from the studies daily. Other duties included statistical consultation on other studies conducted in the division including study design, data analysis, manuscript writing and presentation of results.

7/1996 – 1/2001 Centers for Disease Control and Prevention
 National Center for HIV, STD, and TB Prevention
 Division of HIV/AIDS Prevention: Surveillance and Epidemiology
 Atlanta, GA
 Mathematical Statistician

Job Description

Conducted various statistical analyses required by the division and engaged in manuscript writing and presentation of results while working closely with collaborators. Worked on protocol development including study design, randomization, power and sample size calculations, etc.

EDUCATION

9/1989 - 5/1993 Doctor of Science, Biostatistics
 Harvard University School of Public Health
 Boston, MA
 Minors: Theoretical Statistics, Population Sciences
 Dissertation: The Analysis of Clustered, Correlated Data: Familial
 and Ophthalmologic

8/1986 - 8/1989 Master of Science, Biostatistics
 University of North Carolina at Chapel Hill
 Chapel Hill, NC

9/1982 - 5/1986 Bachelors of Science, Mathematics
 Rensselaer Polytechnic Institute
 Troy, NY
 Minor: Economics

POSTDOCTORAL TRAINING

7/1993 - 7/1996 Department of Biostatistics
 Rollins School of Public Health of Emory University
 Atlanta, GA

TEACHING EXPERIENCE

Emory University, Rollins School of Public Health, Department of Biostatistics

Adjunct Assistant Professor 4/1997 – 7/2009
 Instructor, *Generalized Linear Models* 2002 - 2007 Spring
 Instructor, *Generalized Linear Models* 1996 - 2000 Spring

Harvard University, Harvard School of Public Health, Department of Biostatistics

Teaching Assistant, Courses:
Principles of Biostatistics
Rates and Proportions
Introduction to Statistical Modeling and Data Analysis
Computing Principles and Methods I
Introduction to SAS 1989-1992

HONORS AND AWARDS

5/2022 Nominated for demonstrating excellence in science as a candidate for the CDC and ATSDR Charles C. Shepard Science Award - Prevention and Control Category for "Impact of Community-Based Mass Testing and Treatment on Malaria Infection Prevalence in a High-Transmission Area of Western Kenya: A Cluster Randomized Controlled Trial" Samuels AM, Otero NA, Odongo W, Otieno K, Were V, Shi YP, Sang T, Williamson JM et al.

3/2016 Center for Global Health Honor Awards: Excellence in Program of Policy Evaluation - Malaria in Pregnancy (MIP) Prevention and Treatment Team

3/2016 Center for Global Health Honor Awards: Excellence in Partnering International: Malaria in Pregnancy (MIP) Team

6/2012 Nominated for demonstrating excellence in science as a candidate for the CDC and ATSDR Charles C. Shepard Science Award - Prevention and Control Category for "The combination of indoor residual spraying and insecticide-treated nets provides added protection against malaria when compared with insecticide-treated nets alone" Hamel MJ, Otieno P, Bayoh N, Kariuki S, Were V, Marwanga D,

Laserson K, Williamson JM, Slutsker L, and Gimnig J.

- 11/2011 INDEPTH Prize for best published paper using HDSS data for public health
"A reversal in reductions of child mortality in Western Kenya, 2003-2009"
Hamel MJ, Adazu K, Obor D, Sewe M, Vulule J, Williamson JM, Slutsker L,
Feikin DR, and Laserson K.
- 6/2010 Nominated for demonstrating excellence in science as a candidate for the CDC
and ATSDR Charles C. Shepard Science Award - Prevention and Control
Category for
"Guinea Worm Disease Outcomes in Ghana: Determinants of Broken Worms"
Glenshaw MT, Roy S, Ruiz-Tiben E, Downs P, Williamson JM, Eberhard M.
- 4/2010 Won the 2010 Langmuir Prize Manuscript Award for Paul Cantey.
"Increasing Compliance with Mass Drug Administration Programs for Lymphatic
Filariasis in India through Education and Lymphedema Management Programs"
Cantey PT, Rout J, Rao G, Williamson JM, Fox L.
- 6/2009 CDC and ATSDR Statistical Science Award - Best Theoretical Paper Honorable
Mention
"Modeling Survival Data with Informative Cluster Size"
Williamson JM, Kim H-Y, Manatunga A, and Addiss DG.
- 6/2009 Nominated for demonstrating excellence in science as a candidate for the CDC
and ATSDR Charles C. Shepard Science Award - Prevention and Control
Category for
"Plasma Folate Level and High-Dose Folate Supplementation Predict
Sulfadoxine-Pyrimethamine Treatment Failure in Pregnant Women in Western
Kenya who Have Uncomplicated Malaria"
van Eijk AM, Ouma PO, Williamson JM, Ter Kuile FO, Parise ME, et al.
- 6/2009 Nominated for demonstrating excellence in science as a candidate for the CDC
and ATSDR Charles C. Shepard Science Award - Assessment and Epidemiology
Category for
"Does Cotrimoxazole Prophylaxis for the Prevention of HIV-Associated
Opportunistic Infections Select for Resistant Pathogens in Kenyan Adults?"
Hamel MJ, Greene C, Chiller T, Ouma P, Polyak C, Otieno K, Williamson JM,
Shi YP et al.
- 6/2008 Nominated for demonstrating excellence in science as a candidate for the CDC
and ATSDR Charles C. Shepard Science Award - Assessment and Epidemiology
Category for
"Mortality of Sick Children after Outpatient Treatment at First-Level Health
Facilities in Rural Western Kenya"
Lindblade KA, Hamel MJ, Feikin DR, Odhiambo F, Adazu K, Williamson JM,
and Slutsker L.
- 5/2008 "Emory University's Public Health in Action Award" for Adjunct Faculty Service
to the Department of Biostatistics

6/2006 CDC and ATSDR Statistical Science Award - Best Theoretical Paper Runner-up
 "Generalization of the Mantel-Haenszel Estimating Function for Sparse Clustered Binary Data"
 Molin W and Williamson JM.

6/2004 Nominated for demonstrating excellence in science as a candidate for the CDC and ATSDR Charles C. Shepard Science Award - Assessment and Epidemiology Category for
 "Association of Co-Occurring Psychosocial Health Problems and Increased Vulnerability to HIV/AIDS Among Urban Men Who Have Sex With Men"
 Stall R, Mills TC, Williamson JM, Hart T, Greenwood G, Paul J, Pollack L, Binson D, Osmond D, and Catania JA.

6/2004 CDC and ATSDR Statistical Science Award - Best Theoretical Paper
 "Marginal Analyses of Clustered Data When Cluster Size is Informative"
 Williamson JM, Datta S, and Satten GA.

6/2003 CDC and ATSDR Statistical Science Award - Best Theoretical Paper Runner-up
 "Weighted Least Squares Approach for Comparing Correlated Kappa"
 Barnhart HX and Williamson JM.

4/2003 Department of Health and Human Services Public Health Service On-the-Spot Award

5/2002 CDC and ATSDR Statistical Science Award - Best Applied Paper
 "Analysis of Dynamic Cohort Data"
 Williamson JM, Satten GA, Hanson JA, Weinstock H, and Datta S.

6/1999 CDC and ATSDR Statistical Science Award - Best Theoretical Paper
 "Inference Based on Imputed Failure Times for the Proportional Hazards Model with Interval-Censored Data"
 Satten GA, Datta S., and Williamson JM.

1993-1995 NIH Institutional National Research Service Award

6/1989 Special Commendation from Department of Biostatistics, UNC-CH for performance on Ph.D. Applied Qualifying Examination

6/1989 Special Commendation from Department of Biostatistics, UNC-CH performance on M.S. Methodological Qualifying Examination

PEER-REVIEWED PUBLICATIONS

1. Adewole A, Ajumobi O, Waziri N, Umar A A, Bala U, Gidado S, Ugbenyo G, Simple E, Igbaev I, Attahiru A, Michael CA, Uba B, Nguku P, Uhomoibhi P, Muhammad B, Ismael M, Cash S, **Williamson JM**, McElroy P, Kachur SP, and Asamoah K (2023). Malaria Frontline Project: strategic approaches to improve malaria control program leveraging

- experiences from Kano and Zamfara states, Nigeria, 2016-2019. *BMC Health Services Research* 23:147 doi:10.1186/s12913-023-09143.
2. Chang MA, Impoinvil D, Hamre KES, Javel A, Dalexis P-E, Merilien J-B, Dismar AM, Fouche B, Desir L, Holmes K, Lafortune W, Herman C, Rogier E, Noland GS, Young AJ, Druetz T, Ashton R, Eisele TP, Cohen J, van den Hoogen L, Stresman G, Drakeley C, Pothin E, Cameron E, Battle KE, **Williamson JM**, Telfort M-A, and Lemoine JF (2023). Acceptability, feasibility, drug safety, and effectiveness of a pilot mass drug administration with a single round of sulfadoxine-pyrimethamine plus primaquine and indoor residual spraying in communities with malaria transmission in Haiti, 2018. *American Journal of Tropical Medicine and Hygiene* doi: 10.4269/ajtmh.22-0623.
 3. Hamre KES, Dismar AM, Rogier E, van den Hoogen LL, **Williamson JM**, Kishore N, Travers A, McGee K, Pierre B, Fouché B, Impoinvil D, Holmes K, Stresman G, Druetz T, Eisele TP, Drakeley C, Lemoine JF, and Chang MA (2023). Spatial clustering and risk factors for malaria infections and marker of recent exposure to *Plasmodium falciparum* from a household survey in Artibonite, Haiti. *American Journal of Tropical Medicine and Hygiene*.
 4. Lin H-M, Liu STH, Levin M, **Williamson JM**, Bouvier NM, Aberg JA, Reich D, and Egorova N (2023). Informative censoring – A cause of bias in estimating COVID-19 mortality using hospital data. To appear in *Life*.
 5. **Williamson JM**, Lin H-M, and Lyles RH (2023). A censored quantile regression approach for relative survival analysis: Relative survival quantile regression. *Biometrical Journal* doi: 10.1002/bmj.202200127.
 6. Zhang Y, Chen J, Ge L, **Williamson JM**, Waller LA, and Lyles RH (2023). Sensitivity and uncertainty analysis for two-stream capture-recapture methods in disease surveillance. *Epidemiology* doi:10.1101/2022.09.21.22280224.
 7. Badiane A, Thwing J, **Williamson JM**, Rogier E, Diallo MA, Ndiaye D (2022). Sensitivity and specificity for malaria classification of febrile persons by rapid diagnostic test, microscopy, parasite DNA, histidine-rich protein 2, and IgG: Dakar, Senegal 2015. *International Journal of Infectious Diseases* 121, 92-97.
 8. Kugeler KJ, **Williamson JM**, Curns AT, Healy J, Nolen LD, Clark TA, Martin SW, and Fischer M (2022). Estimating the number of symptomatic SARS-CoV-2 infections among vaccinated individuals in the United States - January–July, 2021. *PLoS ONE* 17(3) doi: 10.1186/s12936-020-03383-6.
 9. Ratovoson R, Garchitorena A, Kassie D, Ravelonarivo JA, Andrianaranjaka V, Razanatsiorimalala S, Razafimandimby A, Rakotomanana F, Ohlstein L, Mangahasimbola M, Randrianirisoa SAN, Razafindrakoto J, Dentinger CM, **Williamson JM** et al. (2022). Proactive community case management decreased malaria prevalence in rural Madagascar: results from a cluster randomized trial. *BMC Medicine* 20(322) doi:10.1186/s12916-022-02530.

10. Samuels AM, Odero NA, Odongo W, Otieno K, Were V, Shi YP, Sang T, **Williamson JM** *et al.* (2021). Impact of community-based mass testing and treatment on malaria infection prevalence in a high-transmission area of western Kenya: A cluster randomized controlled trial. *Clinical Infectious Diseases* 72(11), 1927-1935.
11. Briet O, Koenker H, Norris L, Wiegand R, Vanden Eng J, Thackeray A, **Williamson JM**, Gimnig J *et al.* (2020). Attrition, physical integrity and insecticidal activity of long-lasting insecticidal nets in sub-Saharan Africa and modelling of their impact on vectorial capacity. *Malaria Journal* 19(310) doi: 10.1186/s12936-020-03383-6.
12. Desai M, Samuels A, Odongo W, **Williamson JM**, Odero NA, Otieno K *et al.* (2020). Impact of intermittent mass testing and treatment on incidence of malaria infection in a high transmission area of western Kenya. *American Journal of Tropical Medicine & Hygiene* 103(1), 369-377, doi: 10.4269/ajtmh.19-0735.
13. Gutman JR, Stephens DK, Tiendrebeogo J, Badolo O, Dodo M, Burke D, **Williamson JM** *et al.* (2020). A clustered randomized trial of delivery of intermittent preventive treatment of malaria in pregnancy at the community level in Burkina Faso. *Malaria Journal* 19(282) doi: 10.1186/s12936-020-03356-9.
14. Lin H-M, **Williamson JM**, and Kim H-Y (2020). Firth adjustment for Weibull current-status survival analysis. *Communications in Statistics - Theory and Methods* 49:18, 4587-4602, doi: 10.1080/03610926.2019.1606241.
15. Haaland RE, Otieno K, Martin A, Katana A, Dinh C, Slutsker L, Menendez C, Gonzalez R, **Williamson JM**, Heneine W, and Desai M (2018). Short Communication: Reduced nevirapine concentrations among HIV-positive women receiving mefloquine for intermittent preventive treatment for malaria control during pregnancy. *AIDS Research and Human Retroviruses* doi:10.1089/aid.2018.0042.
16. Omosuna YO, Blackstock AJ, van Eijk AM, Ayisi J, **Williamson JM**, Otieno J, Lal RB, Oter Kuile F, Slutsker L, and Shi Y-P (2018). Association of maternal KIR gene content polymorphisms with reduction in perinatal transmission of HIV-1. *PLoS ONE* doi:10.1371/journal.pone.0191733.
17. Valice EM, Wiegand RE, Mwinzi PNM, Karanja DMS, **Williamson JM**, Ochola E, Samuels A, Verani JR, Leon JS, Secor WE, and Montgomery SP (2018). Relative contribution of schistosomiasis and malaria to anemia in western Kenya. *American Journal of Tropical Medicine and Hygiene* 99(3), 713-715.
18. **Williamson JM**, Lin H-M, and Kim H-Y (2018). An interval-censored proportional hazards model. *Journal of Data Science* doi:10.6339/JDS.201810_16(4).00009.
19. Odhiambo C, Omolo, P, Oyaro B, **Williamson JM**, Kimuthia J, Matemo D, Drake A, John-Stewart G, and Zeh C (2017). Establishment of reference intervals during normal pregnancy through six months postpartum in western Kenya. *PLoS ONE* doi:10.1371/journal.pone.0175546.

20. Okumu A, McCarthy K, Orwa J, **Williamson JM**, Musau S, Alexander H, Cavanaugh S, Modi S, and Cain K (2017). Comparison of *Mycobacterium tuberculosis* complex yield and contamination rates using Lowenstein-Jensen with and without antibiotics in Western Kenya. *Journal of Medical Science and Clinical Research* doi:10.18535/jmscr/v5i8.86.
21. Samuels AM, Awino N, Odongo W, Abongo B, Gimnig J, Otieno K, Shi YP, Were V, Roth Allen D, Were F, Sang T, Obor D, **Williamson JM**, Hamel MJ, Kachur SP, Slutsker L, Lindblade KA, Kariuki S, and Desai M (2017). Community-based intermittent mass testing and treatment for malaria in an area of high transmission intensity, western Kenya: study design and methodology for a cluster randomized controlled trial. *Malaria Journal* 16:240 doi:10.1186/s12936-017-1883-z.
22. Tan KR, Henderson SJ, **Williamson JM**, Ferguson RW, Wilkinson TM, Jung P, and Arguin PM (2017). Long term health outcomes among returned Peace Corp volunteers after malaria prophylaxis, 1995-2014. *Travel Medicine and Infectious Disease* 17, 50-55.
23. Zeh C, Ndiege K, Inzaule S, Achieng R, **Williamson JM**, Chang J C-W, Ellenberger D, and Nkengasong J (2017). Evaluation of the performance of Abbott m2000 and Roche COBAS Ampliprep/COBAS Taqman assays for HIV-1 viral load determination using dried blood spots and dried plasma spots in Kenya. *PLoS ONE* doi:10.1371/journal.pone.0179316.
24. Gimnig JE, Otieno P, Were V, Marwanga D, Abong'o D, Wiegand R, **Williamson JM**, Wolkon A, Zhou Y, Bayoh N, Lobo NF, Laserson K, Kariuki S, and Hamel M (2016). The effect of indoor residual spraying on the prevalence of malaria parasite infection, clinical malaria and anemia in an area of perennial transmission and moderate coverage of insecticide treated nets in western Kenya. *PLoS ONE* 11(1): e0145282. doi:10.1371/journal.pone.
25. Kim H-Y, **Williamson JM**, and Lin H-M (2016). Power and sample size calculations for interval-censored survival analysis. *Statistics in Medicine* 35(8), 1390-1400.
26. Ly KN, Kim AA, Umuro M, Drobeniuc J, **Williamson JM**, Montgomery JM, Fields BS, and Teshale EH (2016). Prevalence of Hepatitis B virus infection in Kenya, 2007. *American Journal of Tropical Medicine & Hygiene* doi:10.4269/ajtmh.16-0059.
27. Mukui IN, Nganga L, **Williamson JM**, Wamicwe JN, Vakil S, Katana A, and Kim AA (2016). Rates and predictors of non-adherence to antiretroviral therapy among HIV-positive individuals in Kenya: results from the second Kenya AIDS indicator survey, 2012. *PLoS ONE* doi:10.1371/journal.pone.0167465.
28. Odhiambo C, Zeh C, Angira F, Opollo V, Akinyi B, Masaba R, **Williamson JM**, Otieno J, Mills L, Lecher SL, and Thomas T (2016). Anemia in HIV-infected pregnant women receiving triple antiretroviral combination therapy for prevention of mother-to-child transmission: A secondary analysis of the Kisumu Breastfeeding Study (KiBS). *Tropical Medicine and International Health* doi:10.1111/tmi.12662.
29. Omere R, Tate JE, O'Reilly CE, Tracy A, **Williamson JM**, Moke F, et al. (2016). Epidemiology, seasonality and factors associated with rotavirus infection among children

- with moderate-to-severe diarrhea in rural western Kenya, 2008-2012: The Global Enteric Multicenter Study (GEMS). *PLoS ONE* doi:10.1371/journal.pone.0160060.
30. Breiman RF, Cosmas L, Njenga MK, **Williamson JM**, Mott JA, Katz MA, Erdman DD et al. (2015). Severe acute respiratory infection in children in a densely populated urban slum in Kenya, 2007-2011. *BMC Infectious Diseases* 15(95) doi:10.1186/s12879-015-0827-x.
 31. Burton DC, Bigogo GM, Audi AO, **Williamson JM**, Munge K, Wafula J, Ouma D et al. (2015). Risk of injection-site abscess among infants receiving a preservative-free, two-dose vial formulation of pneumococcal conjugate vaccine in Kenya. *PLoS ONE* ONE doi:10.1371/journal.pone.0141896.
 32. Desai M, Gutman J, L'lanzia A, Otieno K, Juma E, Kariuki S, Ouma P, Were V, Laserson K, Katana A, **Williamson JM**, and O ter Kuile F (2015). Intermittent screening and treatment or intermittent preventive treatment with dihydroartemisinin-piperaquine versus intermittent preventive treatment with sulfadoxine-pyrimethamine for the control of malaria during pregnancy in western Kenya: an open-label, three-group, randomised controlled superiority trial. *The Lancet* 386(10012), 2507-2519.
 33. Lin H-M and **Williamson JM** (2015). A simple approach for sample size calculation for comparing two concordance correlation coefficients estimated on the same subjects. *Journal of Biopharmaceutical Statistics* 25(6), 1145-1160.
 34. Musau S, McCarthy K, Okumu A, Shinnick T, Wandiga S, **Williamson JM**, and Cain, K (2015). Experience in implementing a quality management system in a tuberculosis laboratory, Kisumu, Kenya. *International Journal of Tuberculosis and Lung Disease* 19(6), 693-695.
 35. Odhiambo C, Oyaro B, Odipo R, Otieno F, Alemnji G, **Williamson JM**, Zeh C (2015). Evaluation of locally established reference intervals for hematology and biochemistry parameters in western Kenya. *PLoS ONE* doi:10.1371/journal.pone.0123140.
 36. Odhiambo C, Zeh C, Ondoa P, Omolo P, Akoth B, Lwamba H, Lando R, **Williamson JM**, Otieno J, Masaba R, Weidle P, and Thomas T (2015). Anemia and red blood cell abnormalities in HIV-infected and HIV-exposed breastfed infants: A secondary analysis of the Kisumu Breastfeeding Study. *PLoS ONE* 10(11): e0141599. doi:10.1371/journal.pone.
 37. Oneko M, Kariuki S, Muturi-Kioi V, Otieno K, Otieno VO, **Williamson JM**, Folster J, Parsons MB, Slutsker L, Mahon BE, and Hamel MJ (2015). Emergence of community acquired multidrug-resistant invasive *Salmonella* disease in rural western Kenya. *Clinical Infectious Diseases* 61(Suppl4), S310-316.
 38. Sewe M, Rocklov J, **Williamson JM**, Hamel M, Nyguara A, Odhiambo F, and Laserson K (2015). The association of weather variability and under five malaria mortality in KEMRI/CDC HDSS in Western Kenya 2003 to 2008: a time series analysis. *International Journal of Environmental Research and Public Health* 12(2), 1983-1997.
 39. Wong JM, Cosmas L, Nyachio D, **Williamson JM**, Olack B, Okoth G, Njuguna H, Feikin DR, Burke H, Montgomery JM, Breiman RF (2015). Increased rates of respiratory and

diarrheal illnesses in HIV-negative people living with HIV-infected individuals in a densely populated urban slum. *Journal of Infectious Diseases* 212, 745-753.

40. Breiman RF, Cosmas L, Audi A, Mwitwi W, Njuguna H, Bigogo GM, Olack B, Ochieng JB, Wamola N, Montgomery JM, **Williamson JM**, Parashar UD, Burton DC, Tate JE, and Feikin, DR (2014). Use of population-based surveillance to determine the incidence of rotavirus gastroenteritis in an urban slum and a rural setting in Kenya. *Pediatric Infectious Disease Journal* 33, S54-S61.
41. Eddy B, Blackstock A, **Williamson JM**, Addiss D, Streit T, Beau de Rochars V, and Fox LA (2014). A longitudinal analysis of the effect of mass drug administration on acute inflammatory episodes and disease progression in lymphedema patients in Leogane, Haiti. *American Journal of Tropical Medicine and Hygiene* 90(1), 80-88.
42. Feikin DR, Bigogo G, Audi A, Pals S, Aol G, Mbakaya C, **Williamson JM**, Breiman R, and Larson CP (2014). Village-randomized clinical trial of home distribution of zinc for treatment of childhood diarrhea in rural western Kenya. *PLoS ONE* 9(5): e94436. doi:10.1371/journal.pone.0094436.
43. Gonzalez R, Desai M, Macete E, Ouma P, Kakolwa MA, Abdulla S, Aponte JJ, Bulu H, Kabanywanyi AM, Katana A, Maculube S, Mayor A, Nhacolo A, Otieno K, Pahlavan G, Ruperez M, Sevene E, Slutsker L, Vala A, **Williamson JM**, Menendez C. (2014). Intermittent preventive treatment of malaria in pregnancy with mefloquine in HIV-infected women receiving cotrimoxazole prophylaxis: A multicenter randomized placebo-controlled trial. *PLoS Med* 11(9): e10017335 doi:10.1371/journal.pmed.
44. Nyambura M, Otieno F, Ndivo R, **Williamson JM**, Pals S, Mills LA, and Gust DA (2014). Participant retention in a HIV prevention cohort study in Kisumu, Kenya. *Journal of Clinical Research in HIV/AIDS and Prevention* doi:10.14302/issn.2324-7339. jcrhap-13-184.
45. Wong JM, Nyachio DO, Benzekri NA, Cosmas L, Ondari D, Yekta S, Montgomery JM, **Williamson JM**, and Breiman RF (2014). Sustained high incidence of injuries due from burns in a densely populated urban slum in Kenya: An emerging public health priority. *Burns* 40, 1194-1200.
46. Aarti A, McMorro M, Onyango P, Otieno K, Odero C, **Williamson JM**, Kariuki S, Kachur SP, Slutsker L, and Desai M (2013). A randomized trial of artemether-lumefantrine and dihydroartemisinin-piperaquine in the treatment of uncomplicated malaria among children in western Kenya. *Malaria Journal* 12:254.
47. Gimnig JE, Walker ED, Otieno P, Kosgei J, Olang G, Ombok M, **Williamson JM**, Marwanga D, Abongo D, Desai M, Kariuki S, Hamel MJ, Lobo NF, Vulule J, and Bayoh MN (2013). Incidence of malaria among mosquito collectors conducting human landing catches in western Kenya. *American Journal of Tropical Medicine and Hygiene* 88, 301-308.
48. Muttai H, Laserson KF, Akello I, Nyabiage L, Gondi J, Mutegi J, **Williamson JM**, Nakashima AK, and Ackers M-L (2013). Antiretroviral therapy uptake among adult TB

- patients newly diagnosed with HIV in Nyanza Province, Kenya. *Public Health Action* 3(4), 286-293.
49. Njuguna HN, Ahmed J, Oria PA, Arunga G, **Williamson JM**, Kosgey A, Muthoka P, Mott JA, Breiman RF, and Katz MA (2013). Uptake and effectiveness of monovalent influenza A (H1N1) pandemic 2009 vaccine among healthcare personnel in Kenya, 2010. *Vaccine* 31(41), 4662-4667.
 50. Njuguna HN, Cosmas L, **Williamson JM**, Nyachio D, Olack B, Ochieng JB, Wamola N, Oundo JO, Feikin DR, Mintz ED, and Breiman RF (2013). Use of population-based surveillance to define the high incidence of shigellosis in an urban slum in Nairobi, Kenya. *PLoS ONE* 8(3): e58347. doi:10.1371/journal.pone.0058437.
 51. Iriemenam NC, Pandey JP, **Williamson JM**, Blackstock AJ, Yesupriya A, et al. (2013). Association between immunoglobulin GM and KM genotypes and placental malaria in HIV-1 negative and positive women in western Kenya. *PLoS ONE* 8(1): e53948. doi:10.1371/journal.pone.0053948.
 52. Omore R, O'Reilly CE, , Moke F, Were V, Farag TH, van **Williamson JM** Eijk AM, Kotloff KL, Levine MM, Obor D, Odhiambo F, Vulule J, Laserson KF, Mintz ED, and Breiman RF (2013). Health-seeking behavior during childhood diarrheal illness: Results of healthcare use and attitude surveys of caretakers in Western Kenya, 2007-2010. *American Journal of Tropical Medicine and Hygiene* 89(Suppl 1), 29-40. doi:10.4269/ajtmh.12-0755.
 53. Ouma KN, Basavaraju SV, Okonji JA, **Williamson JM**, Thomas TK, Mills LA, Nkengasong JN, and Zeh C (2013). Evaluation of quantification of HIV-1 RNA viral load in plasma and dried blood spots by use of the semiautomated Cobas Amplicor Assay and the fully automated Cobas Ampliprep/TaqMan Assay, version 2.0, in Kisumu, Kenya. *Journal of Clinical Microbiology* 51(4), 1208-1218. doi:10.1128/JCM.03048-12.
 54. Breiman RF, Cosmas L, Njugana H, Audi A, Olack B, Ochieng JB, Wamola N, Bigogo GM, Awiti G, Tabu CW, Burke H, **Williamson JM**, Oundo JO, Mintz ED, and Feikin DR (2012). Population-based incidence of typhoid fever in an urban informal settlement and a rural area in Kenya: Implications for typhoid vaccine use in Africa. *PLoS ONE* 7(1):e21119. doi:10.1371/journal.pone.0021119.
 55. Cherutich P, Kaiser R, Galbraith J, **Williamson JM**, Shiraishi RW, Ngare C, Mermin J, Marum E, and Bunnell R. Lack of knowledge of HIV status a major barrier to HIV prevention, care and treatment efforts in Kenya: results from a nationally representative study (2012). *PLoS ONE* 7(5): e36797. doi:10.1371/journal.pone.0036797.
 56. Gargano JW, Laserson K, Muttai H, Odhiambo F, Orimba V, Adamu-Zeh M, **Williamson JM**, Sewe M, Nyabiage L, Owuor K, Broz D, Marston B, Ackers M (2012). The adult population impact of HIV care and antiretroviral therapy in a resource poor setting, 2003-2008. *AIDS* 26, 1545-1554.
 57. Lin H-M, Kim H-Y, **Williamson JM**, and Lesser V (2012). Estimating agreement coefficients from sample survey data. *Survey Methodology* 38(1), 63-72.

58. Okonji JA, Zeh C, Weidle PJ, **Williamson JM**, Akoth B, Masaba R, Fowler MG, and Thomas TK (2012). CD4, viral load response and adherence among antiretroviral-naïve breast-feeding women receiving triple antiretroviral prophylaxis for prevention of mother-to-child transmission of HIV in Kisumu, Kenya. *Journal of Acquired Immune Deficiency Syndromes* 61(2), 249-257.
59. van't Hoog AH, **Williamson JM**, Sewe M, Mboya P, Odeny LO, Agaya JA, Amolloh M, Borgdorff MW, Laserson KF (2012). Risk factors for excess mortality and death in adults with tuberculosis in western Kenya. *International Journal of Tuberculosis and Lung Disease* 16(12), 1649-1656.
60. Feikin DR, Olack B, Bigogo GM, Audi A, Cosmos L, Aura B, Burke H, Njenga MK, **Williamson JM**, and Breiman RF (2011). The burden of common infectious disease syndromes at the clinic and household level from population-based surveillance in rural and urban Kenya. (1): e16085. doi:10.1371/journal.PLoS ONE 6 pone.0016085.
61. Hamel MJ, Adazu K, Obor D, Sewe M, Vulule J, **Williamson JM**, Slutsker L, Feikin DR, and Laserson K (2011). A reversal in reductions of child mortality in Western Kenya, 2003-2009. *American Journal of Tropical Medicine and Hygiene* 85, 597-605.
62. Hamel MJ, Otieno P, Bayoh N, Kariuki S, Were V, Marwanga D, Laserson K, **Williamson JM**, Slutsker L, and Gimnig J (2011). The combination of indoor residual spraying and insecticide treated nets provides added protection against malaria when compared with insecticide treated nets alone. *American Journal of Tropical Medicine and Hygiene* 85(6), 1080-1086.
63. Lievens M, Aponte J, **Williamson JM**, Mmando B, Mohamed A, Bejon P, and Leach A. Statistical methodology for the evaluation of vaccine efficacy in a phase III multi-centre trial of the RTS,S/AS01 malaria vaccine in African children (2011). *Malaria Journal* 10:222 doi:10.1186/1475-2875-10-222.
64. Lin H-M, McClintock SK, and **Williamson JM** (2011). Correction for two-group sample size calculation with uncertain group membership. *Journal of Data Science* 9, 155-170.
65. Mugo N, Dadabhai SS, Bunnell R, **Williamson JM**, Bennett E, Baya I, Akinyi N, Mohammed I, and Kaiser R (2011). Prevalence of herpes simplex virus type 2 infection, human immunodeficiency virus/herpes simplex virus type 2 coinfection, and associated risk factors in a national, population-based survey in Kenya. *Sexually Transmitted Diseases* 38(11), 1059-1066.
66. Waiboci LW, Lebo E, **Williamson JM**, Mwitwi W, Kikwai GK, Njuguna H, Olack B, Breiman RF, Njenga MK, and Katz MA (2011). Viral shedding in patients infected with pandemic influenza A (H1N1) virus in Kenya, 2009. *PLoS ONE* 6(6): 20320. doi:10.1371/journal.pone.0020320.
67. Zeh C, Amornkul PN, Inzaule S, Ondoa P, Oyaro B, Mwaengo DM, Vandenhoude, Gichangi A, **Williamson JM**, Thomas T, DeCock KM, Hart C, Nkengasong J, and Laserson K (2011). Population-based biochemistry, immunologic and hematological

reference values for adolescents and young adults in a rural population in western Kenya. *PLoS ONE* 6(6):e21040. doi:10.1371/journal.pone.0021040.

68. Cantey PT, Rout J, Rao G, **Williamson JM**, Fox L (2010). Increasing compliance with mass drug administration programs for lymphatic filariasis in India through education and lymphedema management programs. *PLoS Neglected Tropical Diseases* 4(6): e728.
69. Feikin D, Audi A, Olack B, Bigogo GM, Polyak C, Burke H, **Williamson JM**, and Breiman RF (2010). Evaluation of the optimal recall period for disease symptoms in home-based morbidity surveillance in rural and urban Kenya. *International Journal of Epidemiology* 39, 1-9.
70. Gatei W, Kariuki S, Hawley W, ter Kuile F, Terlouw D, Phillips-Howard P, Nahlen B, Gimnig J, Lindblade K, Walker E, Hamel M, Crawford S, **Williamson JM**, Slutsker L, and Shi YP (2010). Effects of transmission reduction by insecticide-treated bednets (ITNs) on parasite genetics population structure: I. The genetic diversity of *Plasmodium falciparum* parasites by microsatellite markers in western Kenya. *Malaria Journal* 9:353.
71. Odhaimbo F, Hamel M, **Williamson JM**, Lindblade K, ter Kuile FO, Peterson E, Otieno P, Kariuki S, Vulule, Slutsker L, and Newman RD (2010). Intermittent preventive treatment in infants for the prevention of malaria in rural western Kenya: A randomized, double-blind placebo-controlled trial. *PLoS ONE* 5(4): e10016. doi:10.1371/journal.pone.0010016.
72. Ombok M, Adazu K, Odhiambo F, Bayoh N, Kariinya R, Slutsker L, Hamel MJ, **Williamson JM**, Hightower A, Laserson KF, and Feikin DR (2010). Geospatial distribution and determinants of child mortality in rural western Kenya, 2002 - 2005. *Tropical Medicine & International Health* 15(4), 423-433.
73. **Williamson JM**, Crawford SB, and Lin H-M (2010). A multiple imputation approach for estimating rank correlation with left-censored data. *Statistics in Biopharmaceutical Research* 2(4), 540-548.
74. Chiller TM, Polyak CS, Brooks JT, **Williamson JM**, Ochieng B, Shi YP et al. (2009). Daily trimethoprim-sulfamethoxazole prophylaxis rapidly induces corresponding resistance among intestinal *Escherichia coli* of HIV-infected adults in Kenya. *Journal of the International Association of Physicians in AIDS Care* 8, 165-169.
75. Glenshaw MT, Roy S, Ruiz-Tiben E, Downs P, **Williamson JM**, Eberhard M (2009). Guinea worm disease outcomes in Ghana: Determinants of broken worms. *American Journal of Tropical Medicine and Hygiene* 81, 305-312.
76. Morrow KM and The Project START Study Group (2009). HIV, STD, and hepatitis risk behaviors of young men before and after incarceration. *AIDS Care* 21, 235-243.
77. **Williamson JM**, Lin H-M, and Kim H-Y (2009). Power and sample size calculations for current status survival analysis. *Statistics in Medicine* 28, 1999-2011.
78. Hamel MJ, Greene C, Chiller T, Ouma P, Polyak C, Otieno K, **Williamson JM**, Shi YP et al. (2008). Does cotrimoxazole prophylaxis for the prevention of HIV-associated

opportunistic infections select for resistant pathogens in Kenyan adults? *American Journal of Tropical Medicine & Hygiene* 79, 320-330.

79. van Eijk AM, Ouma PO, **Williamson JM**, Ter Kuile FO, Parise ME, et al. (2008). Plasma folate level and high dose folate supplementation predict sulfadoxine-pyrimethamine treatment failure in Kenya pregnant women with uncomplicated malaria. *Journal of Infectious Diseases* 198, 1550-1553.
80. **Williamson JM**, Kim H-Y, Manatunga AM, and Addiss DG (2008). Modeling survival data with informative cluster size. *Statistics in Medicine* 27, 543-555.
81. Bern CB, Haque R, Chowdhury R, Ali M, Kurkjian KM, Vaz L, Amann J, Wahed MA, Wagatsuma Y, Breiman RF, **Williamson JM**, et al. (2007). The epidemiology of visceral leishmaniasis and asymptomatic leishmanial infection in a highly endemic Bangladeshi village. *American Journal of Tropical Medicine & Hygiene* 76, 909-914.
82. Cama VA, Ross JM, Crawford S, Kawai V, Chavez-Valdez R, Vargas D, Vivar A, Ticona E, Navincopa M, **Williamson JM**, et al. (2007). Differences in clinical manifestations among *Cryptosporidium* species and subtypes in HIV-infected persons. *The Journal of Infectious Diseases* 196, 684-691.
83. Crawford SB, Kosinski AS, Lin H-M, **Williamson JM**, and Barnhart HX (2007). Computer programs for the concordance correlation coefficient. *Computer Methods and Programs in Biomedicine* 88, 62-74.
84. Lindblade KA, Hamel MJ, Feikin DR, Odhiambo F, Adazu K, **Williamson JM**, and Slutsker L. Mortality of sick children following outpatient treatment at first-level health facilities in rural western Kenya (2007). *Tropical Medicine and International Health* 12, 1258-1268.
85. Lyles RH, Lin H-M, and **Williamson JM** (2007). A Practical approach to computing power for generalized linear models with nominal, count, or ordinal responses. *Statistics in Medicine* 26, 1632-1648.
86. **Williamson JM**, Crawford S, and Lin H-M (2007). Resampling dependent concordance correlation coefficients. *Journal of Biopharmaceutical Statistics* 17, 685-696.
87. **Williamson JM**, Kim H-Y, and Warner L (2007). Weighting condom use data to account for nonignorable cluster size. *Annals of Epidemiology* 17, 603-607.
88. **Williamson JM**, Lin H-M, Lyles RH, and Hightower AW (2007). Power calculations for ZIP and ZINB models. *Journal of Data Science* 5, 519-534.
89. Bertolli J, Hsu H-W, Sukalac T, **Williamson JM**, Peters V, Frederick T, Rakusan TA, Ortiz I, Melville SK, Dominguez K, for the Pediatric Spectrum of HIV Disease Study (2006). Hospitalization trends among children and youth with perinatal Human Immunodeficiency Virus infection, 1990-2002. *Pediatric Infectious Disease Journal* 25(7), 628-633.

90. Dreyer G, Addiss D, Gadelha P, Lapa E, **Williamson JM**, and Dreyer A (2006). Interdigital skin lesions of the lower limbs among patients with lymphoedema in an area endemic for bancroftian filariasis. *Tropical Medicine and International Health* 11(9), 1475-1481.
91. Dreyer G, Addiss D, **Williamson JM**, and Noroes J (2006). Efficacy of co-administered diethylcarbamazine and albendazole against adult *Wuchereria bancrofti*. *Transactions of the Royal Society for Tropical Medicine and Hygiene* 100, 1118-1125.
92. Lindblade KA, Mwololo K, van Eijk AM, Peterson E, Odhiambo F, **Williamson JM**, and Slutsker L. (2006). Evaluation of the WHO Haemoglobin Colour Scale for diagnosis of anaemia in children and pregnant women as used by primary health care nurses and community health workers in western Kenya. *Tropical Medicine and International Health* 11(11), 1-9.
93. **Williamson JM** (2006). Reviewer of "Models for Discrete Longitudinal Data". *Journal of the American Statistical Association* 101, 1307-1307.
94. Bern C, Kawai V, Vargas D, Rabke-Verani J, **Williamson JM**, Chavez-Valdez R, Xiao L, Sulaiman I, et al. (2005). The epidemiology of intestinal microsporidiosis in patients with HIV/AIDS in Lima, Peru. *Journal of Infectious Diseases* 191, 1658-1664.
95. Kim H-Y, **Williamson JM**, and Lyles CM (2005). Sample-size calculations for studies with correlated ordinal outcomes. *Statistics in Medicine* 24, 2977-2987.
96. Kurkjian KM, Vaz LE, Haque R, Cetre-Sossah C, Akhter S, Roy S, Steurer F, Amann J, Ali M, Chowdhury R, Wagatsuma Y, **Williamson JM**, Crawford S, Breiman RF, Maguire JH, Bern C, and Secor WE (2005). Application of an improved method for the recombinant K39 enzyme-linked immunosorbent assay to detect visceral leishmaniasis disease and infection in Bangladesh. *Clinical and Diagnostic Laboratory Immunology* 12, 1410-1415.
97. Lin H-M, Lyles RH, **Williamson JM**, and Kunselman AR (2005). Estimation of the intervention effect in a non-randomized study with pre- and post-mismeasured binary responses. *Statistics in Medicine* 24, 419-435.
98. Lindblade KA, Dotson E, Hawley W A, Bayoh N, **Williamson JM**, Mount D, Olang G, Vulule J, Slutsker L, and Gimnig J (2005). Evaluation of long-lasting insecticidal nets after 2 years of household use. *Tropical Medicine and International Health* 10, 1141-1150.
99. Lyles RH, **Williamson JM**, Lin H-M, and Heilig CM (2005). Extending McNemar's Test: Estimation and inference when paired binary outcome data are misclassified. *Biometrics* 61, 287-294.
100. Wang M and **Williamson JM** (2005). Generalization of the Mantel-Haenszel estimating function for sparse clustered binary data. *Biometrics* 61, 973-981.
101. Lyles RH, Lin H-M, and **Williamson JM** (2004). Design and analytic considerations for single-armed studies with misclassification of a repeated binary outcome. *Journal of Biopharmaceutical Statistics* 14, 229-247.

102. Wang M, **Williamson JM**, and Redline S (2004). A semiparametric method for analyzing matched case-control family studies with a continuous outcome and proband sampling. *Biometrics* 60, 644-650.
103. Dworkin MS, **Williamson JM**, and the Adult/Adolescent Spectrum of HIV Disease Project (2003). AIDS Wasting Syndrome: Trends, influence on opportunistic infections, and survival. *Journal of Acquired Immune Deficiency Syndromes* 33, 267-273.
104. Gardner LI, Holmberg SD, **Williamson JM**, Szczech LA, Carpenter CCJ, Rompalo AM, Schuman P, and Klein RS (2003). Development of proteinuria or elevated serum creatinine and mortality in HIV-infected women. *Journal of Acquired Immune Deficiency Syndromes* 32, 203-209.
105. Lin H-M, **Williamson JM**, and Lipsitz SR (2003). Calculating power for the comparison of dependent kappa-coefficients. *Applied Statistics* 52, 391-404.
106. Stall R, Mills TC, **Williamson JM**, Hart T, Greenwood G, Paul J, Pollack L, Binson D, Osmond D, Catania JA (2003). Association of co-occurring psychosocial health problems and increased vulnerability to HIV/AIDS among urban men who have sex with men. *American Journal of Public Health* 93, 939-942.
107. **Williamson JM**, Datta S, and Satten GA (2003). Marginal analyses of clustered data when cluster size is informative. *Biometrics* 59, 36-42.
108. **Williamson JM**, Lin H-M, and Barnhart HX (2003). A classification statistic for GEE categorical response models. *Journal of Data Science* 1, 149-165.
109. Barnhart HX and **Williamson JM** (2002). Weighted least squares approach for comparing correlated kappa. *Biometrics* 58, 1012-1019.
110. Holmberg SD, Moorman AC, **Williamson JM**, Tong TC, Ward DJ, Wood KC, Greenberg AE, Janssen RS, and the HIV Outpatient Study (HOPS) Investigators (2002). Protease inhibitors and cardiovascular outcomes in patients with HIV-1. *Lancet* 360, 1747-1748.
111. Lin H-M, Lyles RH, and **Williamson JM** (2002). Bias in a placebo-controlled study due to mismeasurement of disease status and the regression effect. *Controlled Clinical Trials* 23, 497-501.
112. Thorpe L, Ouellet LJ, Hershow R, Baley SL, Williams IT, **Williamson JM**, Monterroso ER, and Garfein RS (2002). Risk of Hepatitis C Virus infection among young adult injection drug users who share injection equipment. *American Journal of Epidemiology* 155, 645-653.
113. **Williamson JM**, Lin H-M, and Bush TJ (2002). A simple two-sample rank test for multivariate survival with left truncation and right censoring. *Biometrical Journal* 44, 213-225.

114. Barnhart HX and **Williamson JM** (2001). Modeling concordance correlation via GEE to evaluate reproducibility. *Biometrics* 57, 931-940.
115. Dworkin MS, **Williamson JM**, Jones JL, Kaplan JE, and the Adult and Adolescent Spectrum of HIV Disease Project (2001). Prophylaxis with Trimethoprim-Sulfamethoxazole for Human Immunodeficiency Virus-infected patients: Impact on risk for infectious diseases. *Clinical Infectious Diseases* 33, 393-398.
116. Lipsitz SR, **Williamson JM**, Klar N, Ibrahim J, and Parzen M (2001). A simple method for estimating a regression model for kappa, between a pair of raters. *Journal of the Royal Statistical Society Series A - Statistics in Society* 164, 449-465.
117. Manatunga AK and **Williamson JM** (2001). Assessing familial aggregation with an ordinal response. *Communications in Statistics - Theory and Methods* 30, 627-641.
118. **Williamson JM**, Satten GA, Hanson JA, Weinstock H, and Datta S (2001). Analysis of dynamic cohort data. *American Journal of Epidemiology* 154, 366-372.
119. Datta S, Satten GA, and **Williamson JM** (2000). Consistency and asymptotic normality of estimators in a proportional hazards model with interval censoring and left truncation. *Annals of the Institute of Statistical Mathematics* 52, 160-172.
120. Hsu HW, Pelton S, **Williamson JM**, Thomas P, Mascola L, Ortiz I, Rakusan T, Melville S, Bertolli J, and the PSD project (2000). Survival in children with perinatal HIV infection and very low CD4 lymphocyte counts. *Journal of Acquired Immune Deficiency Syndromes* 25, 269-275.
121. **Williamson JM**, Manatunga AK, and Lipsitz SR (2000). Modeling kappa for measuring dependent categorical agreement data. *Biostatistics* 1, 191-202.
122. Baillargeon J, Borucki MJ, and **Williamson JM** (1999). Temporal trends in AIDS-related survival. *AIDS Patient Care and STDs* 13, 17-22.
123. Baillargeon J, Borucki MJ, **Williamson JM**, and Dunn K (1999). Determinants of HIV-related survival among Texas prison inmates. *AIDS Patient Care and STDs* 13, 355-361.
124. Stiger TR, Barnhart HX, and **Williamson JM** (1999). Testing proportionality in the proportional odds model fitted with GEE. *Statistics in Medicine* 18, 1419-1433.
125. **Williamson JM**, Lipsitz SR, and Kim KM (1999). GEECAT and GEEGOR: Computer programs for the analysis of correlated categorical response data. *Computer Methods and Programs in Biomedicine* 58, 25-34.
126. Barnhart HX and **Williamson JM** (1998). Goodness-of-fit tests for GEE modeling with binary responses. *Biometrics* 54, 720-729.
127. Satten GA, Datta S, and **Williamson JM** (1998). Inference based on imputed failure times for the proportional hazards model with interval-censored data. *Journal of the American Statistical Association - Theory and Methods* 93, 318-327.

128. Warner DL, Clay-Warner J, Boles J, and **Williamson JM** (1998). Assessing condom use practices: Implications for evaluating method and user effectiveness. *Sexually Transmitted Diseases* 25, 273-277.
129. Gilmour E, Ellerbrock TV, Koulos JP, Chiasson MA, **Williamson JM**, Kuhn L, and Wright TC (1997). Measuring cervical ectopy: Direct visual assessment versus computer planimetry. *American Journal of Obstetrics and Gynecology* 176, 108-111.
130. **Williamson JM** and Manatunga AK (1997). Assessing interrater agreement from dependent data. *Biometrics* 53, 707-714.
131. **Williamson JM** and Kim K (1996). A global odds ratio regression model for bivariate ordered categorical data from ophthalmologic studies. *Statistics in Medicine* 15, 1507-1518.
132. **Williamson JM** and Lee M-L T (1996). A GEE regression model for the association between an ordinal and a nominal variable. *Communications in Statistics - Theory and Methods* 25(8), 1887-1901.
133. **Williamson JM**, Tosteson T, Redline S, Liu X, and Dawson DV (1996). Familial aggregation studies with matched proband sampling. *Human Heredity* 46(2), 76-84.
134. Redline S, Tischler PV, Tosteson TD, **Williamson JM**, Kump K, Browner I, Ferrette V, and Krejci P (1995). The familial aggregation of obstructive sleep apnea. *American Journal of Respiratory & Critical Care Medicine* 151, 682-687.
135. **Williamson JM**, Kim K, and Lipsitz SR (1995). Analyzing bivariate ordinal data using a global odds ratio. *Journal of the American Statistical Association - Theory and Methods* 90, 1432-1437.

BOOK CHAPTERS

Lin H-M, Kim HY, **Williamson JM**. Chapter 7: Basic Mathematics and Statistics in Medical Research. *BASIC Essentials: A Comprehensive Review for the Anesthesiology BASIC Exam*. Cambridge Press. (in press).

SUBMITTED PAPERS

Williamson JM, Lin H-M, and Kim H-Y. A multiplicative weighted Cox model for relative mortality analysis. To *Lifetime Data Analysis*.

PRESENTATIONS AND NON PEER-REVIEWED PUBLICATIONS

Williamson, J. M. 2016. Informative Cluster Size. Wiley StatsRef: Statistics Reference Online. 1–2.

Power and sample size calculations for interval-censored survival analysis. Statistical Sciences Department, University of Cape Town, March, 2016.

Power and sample size calculations for interval-censored survival analysis. ASA CSP Conference, February, 2016.

A Career in Biostatistics. The 1st Strathmore University Mathematics Conference, Invited Presentation, August, 2011.

The Need for In-Country Biostatisticians: Experience from a CDC/Kenya Statistician. Strengthening Biostatistics Resources in sub-Saharan Africa: A follow-up Workshop, Invited Presentation, Gaborone, Botswana, June, 2011.

Individual Heterogeneity and the Potential Rebound Effect of Malaria Intervention Strategies. ASTMH Conference, November, 2010.

Power and Sample Size Calculations for Current Status Survival Analysis. ASA Conference, August, 2008.

A Permutation Test for Dependent Concordance Correlation Coefficients. ASA Conference, August, 2006.

Power Calculation for ZIP and ZINB Models. XXIIIrd International Biometric Conference, Poster Session, July, 2006.

Invited Session: Analysis and Issues in Matched Family Aggregation Studies, Organizer and Chair. ENAR Conference, March, 2005.

Modeling Kappa with Missing Data. International Conference on Statistics in Health Sciences, Invited Session, June, 2004.

Cluster-Weighted Survival Analysis. ENAR Conference, Invited Session, March, 2004.

Weighted Least Squares Approach for Comparing Correlated Kappa. ASA Conference, August, 2002.

Marginal Analyses of Clustered Data When Cluster Size is Informative. Southern Regional Council on Statistics Summer Research Conference, Invited Session, June, 2002.

Modeling Dependent Agreement Data with Covariates. ENAR Conference, Invited Session, March, 2001.

A Method for Analyzing Familial Case-Control Data. ENAR Conference, March, 2000.

A Goodness-of-Fit Statistic for Categorical Response Models. ASA Conference, August, 1999. Latent Variable Modeling for Interrater Agreement Data. ENAR Conference, Invited Session, April, 1999.

Invited Session 24: Issues in Applying GEE Methodology to Consulting Questions, Organizer and Chair. ASA Conference, August, 1997.

Assessing Interrater Agreement from Dependent Data. ENAR Conference, March, 1996.
Grady JJ, Miller TQ, and (1997). Advanced methods for longitudinal **Williamson JM** data with binary outcomes: Weighted least squares and the Generalized Estimating Equation Approach. *Proceedings of the Section on Statistical Education of the American Statistical Association*, 30-39.

Dawson DV, Tosteson T, **Williamson JM**, Redline S, Cuenco KT, and Liu X (1995). Sampling issues in the study of familial disease: The case-control design for family studies. *Proceedings of the Epidemiology Section of the American Statistical Section*, 21-27.

A Generalized Estimating Equations Approach for the Analysis of Correlated Measurements on an Individual. ENAR Conference, April, 1994.

Generalized Estimating Equations for Bivariate Ordinal Data: Using the Global Odds Ratio as a Measure of Association. ASA Conference, August, 1993.

A Global Odds Ratio Regression Model for Bivariate Ordered Categorical Data from Ophthalmologic Studies. ENAR Conference, March, 1993.

INVITED SEMINARS

A Multiplicative Weighted Cox Model for Relative Mortality Analysis. Oregon State University, Department of Statistics, March, 2021.

Estimation of the Intervention Effect with Pre- and Post-Mismeasured Binary Responses. Rollins School of Public Health of Emory University, Department of Biostatistics, March, 2006.

Cluster-Weighted Survival Analysis. Medical University of South Carolina, Department of Biostatistics, Bioinformatics and Epidemiology, February, 2005.

Cluster-Weighted Survival Analysis. Memorial Sloan-Kettering Cancer Center, Department of Biostatistics, September, 2004.

Marginal Analyses of Clustered Data When Cluster Size is Informative. STATA, College Station, Texas, February, 2004.

Marginal Analyses of Clustered Data when Cluster Size is Informative. Rollins School of Public Health of Emory University, Department of Biostatistics, January, 2002.

Marginal Analyses of Clustered Data when Cluster Size is Informative. University of Alabama at Birmingham School of Public Health, Department of Biostatistics, October, 2001.

Marginal Analyses of Clustered Data when Cluster Size is Informative. University of Georgia, Department of Statistics, September, 2001.

Analyzing Correlated Categorical Agreement Data with Kappa Coefficient. Rollins School of Public Health of Emory University, Department of Biostatistics, December, 1999.

Assessing Interrater Agreement from Dependent Data. University of Texas Medical Branch at Galveston, Department of Preventive Medicine and Community Health, Division of Epidemiology and Biostatistics, July, 1997.

Assessing Interrater Agreement from Dependent Data. Huntsman Cancer Institute, April, 1996.

Assessing Interrater Agreement from Dependent Data. University of Memphis, Department of Mathematical Sciences, March, 1996.

Assessing Interrater Agreement from Dependent Data. University of Arkansas Medical Sciences, Arkansas Children's Hospital, Department of Pediatrics, March 1996.

Analyzing Bivariate Ordinal Data Using a Global Odds Ratio. University of Pittsburgh School of Public Health, Department of Biostatistics, February, 1995.

Analyzing Bivariate Ordinal Data Using a Global Odds Ratio. Rollins School of Public Health of Emory University. Department of Biostatistics, September, 1993.

WORK COMMITTEES

CDC Statistical Advisory Group

- Seminars and Training Committee Member 2007 - 2009
- Seminars and Training Committee Chair 2006 - 2007
- Seminars and Training Committee Member 2001 - 2006
- Committee Member 2001 - 2003

CDC/ATSDR Symposium on Statistical Methods - Invited Speaker Committee 2001

HIV/AIDS Surveillance and HIV Incidence and HIV Prevalence Studies, Part III,
HIV Incidence and HIV Prevalence Studies - Reviewer 1999

CDC/ATSDR Symposium on Statistical Methods - Abstract Subcommittee 1999

Supplemental Funds - HIV/AIDS Surveillance - Reviewer 1998

PHD DISSERTATION COMMITTEE MEMBER

Chengxing Lu, Department of Biostatistics at the Rollins School of Public Health of Emory University, August, 2008. Statistical Methods to Adjust for Misclassified Repeated Exposures in Modeling Disease-Exposure Associations.

Sara Crawford, Department of Biostatistics at the Rollins School of Public Health of Emory University, November, 2007. Multiple Sources of Informative Dropout in Longitudinal Data.

Carol Lin, Department of Biostatistics at the Rollins School of Public Health of Emory University, July, 2005. Evaluating and Optimizing Performance of Diagnostic Systems with Multiple Tests.

Traci Leong, Department of Biostatistics at the Rollins School of Public Health of Emory University, July, 2005. First- and Second-Order Properties of Spatial Point Processes in Biostatistics.

Ying Guo, Department of Biostatistics at the Rollins School of Public Health of Emory University, August, 2004. Assessing Agreement for Survival Outcomes.

Jingli Song, Department of Biostatistics at the Rollins School of Public Health of Emory University, March, 2003. Assessing Agreement/Association for Continuous Measurement Scales.

Fan Xu, Department of Biostatistics at the Rollins School of Public Health of Emory University, March, 2003. Observer Agreement and Unconditional Inference for 2 by 2 Tables.

Haitao Chu, Department of Biostatistics at the Rollins School of Public Health of Emory University, March, 2003. Estimating Vaccine Efficacy in the Presence of Correlated Data and Missing Data.

Molin Wang, Department of Biostatistics at the Rollins School of Public Health of Emory University, March, 2002. Semiparametric Methods to Reduce the Impact of Nuisance Parameters.

Gregory Golm, Department of Biostatistics at the Rollins School of Public Health of Emory University, March, 1998. Semiparametric Methods for Mismeasured Exposure Information in HIV Vaccine Trials.

Thomas R. Stiger, Department of Biostatistics at the Rollins School of Public Health of Emory University, December, 1997. Small-Sample Performance and Validation of the Proportional Odds Model for Correlated Ordinal Data Fitted with GEE.

MASTER'S THESIS COMMITTEE MEMBER

Anna Susan Moss, Department of Biostatistics at the Rollins School of Public Health of Emory University, May, 2003. Goodness-of-Fit Tests for Ordinal Models Fitted with Continuous Covariates.

Anthony M. Carangi, Department of Biostatistics at the Rollins School of Public Health of Emory University, December, 2001. Comparison of Three Methods for Screening of Carotid Arty Stenosis.

PROFESSIONAL COMMITTEES

Ex-President of the Georgia Chapter of the American Statistical Association 2008 – 2009

President of the Georgia Chapter of the American Statistical Association 2007 – 2008

Vice President of the Georgia Chapter of the American Statistical Association 2005 – 2007

ENAR Conference in Atlanta, Georgia - Local Arrangement Committee 1999

EDITORIAL ACTIVITIES

Referee for

American Journal of Epidemiology (1)
American Journal of Tropical Medicine and Hygiene (2)
American Statistician (1)
Annals of Applied Statistics (1)
Annals of the Institute of Statistical Mathematics (1)
Applied Statistics (2)
Biometrical Journal (3)
Biometrics (13)
Biostatistics (1)
BMC Medical Research Methodology (1)
Communications in Statistics - Simulation and Computation (1)
Computational Statistics and Data Analysis (2)
Computer Methods and Programs in Biomedicine (1)
Environmental and Ecological Statistics (1)
European Psychologist (1)
Journal of Biometrics & Biostatistics (1)
International Journal of Epidemiology (1)
Journal of Biopharmaceutical Statistics (3)
Journal of Clinical Epidemiology (1)
Journal of the Acquired Immune Deficiency Syndromes and Human Retrovirology (1)
Journal of the American Statistical Association (3)
Psychological Methods (1)
Psychometrika (2)
Statistics in Medicine (20)

REFERENCES

Hung-Mo Lin, Sc.D.
Professor
Department of Anesthesiology
Yale School of Medicine
333 Cedar Street
PO Box 208051
New Haven, CT 06520
(201) 336-2000
Hung-Mo.Lin@yale.edu

Robert H. Lyles, Ph.D.
Director, Biostatistics, Epidemiology, & Research Design
Department of Biostatistics
Emory University Rollins School of Public Health
1518 Clifton Rd., NE
Atlanta, GA 30322
rlyles@sph.emory.edu
(TEL) (404) 727-1310

Jodi VandenEng, M.S.
Center for Epidemiology and Animal Health
U.S. Department of Agriculture
2150 Center Ave, Bldg B
Fort Collins, CO 80526
Jodi.l.vandeneng@aphis.usda.gov
(TEL) (970) 494-7316