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Education

M.Sc., Biomathematics, University of Washington, Seattle, Wa., 1977.

B.Sc., Molecular and Cellular Biology with a minor in Chemistry, University of Washington, Seattle, Wa., 1973.

Professional Experience

2018-present – Task Force for Global Health / Neglected Tropical Diseases Support Center

2017-present – National Cancer Institute (NIH)/Bill and Melinda Gates Foundation, Frederick, MD. Statistical analysis for the HPV Serology Standardization Initiative to promote standardization, harmonization, and proficiency of HPV serology testing in vaccine trials.

2017-present – Program for Appropriate Technology in Health (PATH), Seattle, WA. Statistical analysis to study intra- and inter-assay variability for a Non-replicating rotavirus (NRRV) vaccine candidate.

2016-2019 – Sigmovir Biosystems, Inc., Rockville, MD. Statistical analysis for the validation of Respiratory Syncytial Virus (RSV) neutralizing antibody assays performed by the microneutralization and plaque reduction methods.

2016-present – Program for Appropriate Technology in Health (PATH)/Meningitis A Vaccine Sustainability Project, Ferney-Voltaire, France. Senior Statistical Advisor on a project to gather and/or interpret information collected from follow-up studies to evaluate long-term immunogenicity of the vaccine MenAfriVac® in sub-Saharan Africa.

2014-2019 – Program for Appropriate Technology in Health (PATH), Seattle, WA. Respiratory Syncytial Virus (RSV) Vaccine Project. RSV bioassay and vaccine evaluation and research.

2014-2016 – Waterborne Diseases Branch/NCEZID/Centers for Disease Control and Prevention, Atlanta, GA. Randomized trial of bismuth subsalicylate to reduce antimicrobial use among adult outpatients with acute diarrhea in Pakistan.

2014-2015 - Novartis Vaccines and Diagnostics, Siena, Italy. Meningococcal Group B bioassay and vaccine development. Design and analyze multi-lab assay standardization studies.

2013-2014 - Institute of Child Health, London, England. Pneumococcal bioassay and vaccine evaluation and research.

2013-present – Epicentre, Paris, France. Chief statistician on a phase III trial to study the efficacy and safety of a pentavalent rotavirus vaccine (BRV-PV) against severe rotavirus gastroenteritis in Niger.

2003-2016 – Program for Appropriate Technology in Health (PATH)/Meningitis Vaccine Project, Ferney-Voltaire, France. Senior Statistical Advisor on a project to develop, test, and distribute a meningococcal Group A conjugate vaccine in sub-Saharan Africa (MenAfriVac®).

1977-2013 - 36 years working with the Bacterial Diseases Division, National Center for Infectious and Respiratory Disease, and the Division of Chronic Diseases, Center for Environmental Health, Centers for Disease Control and Prevention.

Honors and Awards

NCIRD Honor Award for Excellence in Human Capital Management-Employee Development, June 1, 2011.

NCIRD Public Health Impact Award – MenAfriVac Development and Implementation Group Award, June 1, 2011.

CDC and ATSDR Excellence in Innovations Award, 2009.

Atlanta Federal Employee of the Year Group Award, Outstanding Team Award for the Anthrax Vaccine research Program, Atlanta, GA, May 7, 2009.

CDC Director's Innovation Award, member of a group recognized for innovations in research & technology that create new capabilities, 2008.

Nominated for the William C. Watson, Jr., Medal of Excellence, 2008.

DHHS Secretary's Award for Distinguished Service for scientific excellence in conduct and completion of the Anthrax Vaccine Research Program human clinical trial interim analysis, 2006.

Civil servant participant in Unit Commendation for activities contributing to the cochlear implant and meningitis investigation team, 2005.

NCID James H. Nakano Citation for an outstanding scientific paper published in 2004 (publication number 109).

CDC cash award for outstanding effort in the Anthrax Vaccine Research Program, 2005

DHHS Secretary's Award for Distinguished Service for participating in the SARS Public Health Response Team, 2004.

NCID James H. Nakano Citation for an outstanding scientific paper published in 2002 (publication number 102).

CDC and ATSDR group award for Research, Operational in recognition of a rapid public health response resulting in the reduction of meningitis-related morbidity and mortality associated with cochlear implants in children, 2003

HHS Secretary's Award for Distinguished Service for September 11th Terrorist and Anthrax Investigation Emergency Response Team, 2002.

NCID James H. Nakano Citation for an outstanding scientific paper published in 2001 (Publication number 96).

Special Act or Service Award for contributing to the design and composition of the Anthrax Vaccine Research program protocols, 2000.

NCID James H. Nakano Citation for an outstanding scientific paper published in 1997 (publication number 78).

CDC and ATSDR Honor Award for Statistical Research and Services. For work in developing and adapting new statistical methodology to analyze vaccine immunogenicity trials and for developing software to perform these analyses, 1997.

DHHS Secretary's Recognition Award for Distinguished Service - Leptospirosis Outbreak Team (DBMD), 1997

Alexander D. Langmuir Prize Manuscript Award (publication number 81), 1997.

NCID James H. Nakano Citation for an outstanding scientific paper published in 1996 (publication number 76).

DHHS Secretary's Recognition Award for Distinguished Service for the statistical coordination and support activities in the hantavirus outbreak investigation in the southwest United States, 1994.

CDC Special Act or Service Award for statistical coordination and support activities in the hantavirus outbreak investigation in the southwest United States, 1994.

NCID James H. Nakano Citation for an outstanding scientific paper published in 1993 (publication number 62).

Alexander D. Langmuir Prize Manuscript Award (publication number 63), 1993.

Finalist, 1993 CDC Statistical Awards – A Computer-assisted pattern recognition model for the identification of slowly growing mycobacteria including *Mycobacterium tuberculosis*, (publication number 56).

Civil servant participant in Outstanding Unit Citation for activities contributing to understanding the epidemiology of sporadic listeriosis and the design of preventive measures for the population at risk, 1992.

Superior Work Performance Award for efforts contributed to the International Workshop on Meningococcal Serology, 1990.

Best Contributed Paper, Poster Section, A multisite data collection and analysis system based on the SAS system. 15th Annual SAS Users Group International Conference, 1990, (publication number 37).

Civil servant participant in Outstanding Unit Commendation for outstanding performance in conceiving and preparing a state-of-the-art status report on leptospirosis, with significant international application, 1989.

Civil servant participant in Outstanding Unit Commendation for conceiving and preparing a state-of-the-art status report on psittacosis and other diseases caused by *Chlamydia psittaci*, 1988.

Finalist, 1987 CDC Statistical Awards - Applied Category Manuscript for statistical excellence demonstrated by the publication of A Robust estimation of standard curves for protein molecular weight and linear-duplex DNA base-pair number after gel electrophoresis, (publication number 17).

Civil servant participant in Outstanding Unit Commendation for contributing to the CDC Mount St. Helens emergency response effort, 1981.

National Institute of Health Traineeship GM 01269-13. 1976-1977.

Presentations and Meetings

WHO Working Group Meeting on RSV vaccine standardization and clinical evaluation. Geneva, Switzerland, February 3-5, 2016.

PATH RSV Assay Working Group Meeting, Washington, DC, April 4, 2016

PATH Scientific Advisory Board Meeting for Respiratory Syncytial Virus Vaccine Project. Washington, DC, June 3, 2015.

PATH RSV Assay Working Group Meeting. Washington, DC, June 18, 2014.

17th International Pathogenic *Neisseria* Conference. Presented the poster 'Interlaboratory standardization of the MATS ELISA: a protein antigen phenotyping method for *N. meningitidis* serogroup B. Banff, Alberta, Canada, September 11-16, 2010.

Statistical Issues Related to Vaccine Evaluation, Pune, India, February 10-12, 2010.
Invited Speaker

Develop bridging protocols for pneumococcal reference standards, FDA, Washington, DC, May 21, 2009.

Utilization of Serologic Assays to Support Efficacy Workshop, NIH. Moderated a session and participated on a panel discussion. Washington, DC, May 5-6, 2009. Invited Speaker

Meningitis Vaccine Project Scientific Meeting, Dakar, Senegal, October 28-30, 2008.
Invited Speaker

6th International Symposium on Pneumococci and Pneumococcal Diseases. Delivered a presentation on a multi-laboratory study on the standardization of a pneumococcal opsonophagocytic assay. Reykjavik, Iceland, 2008. Invited Speaker

CDC International *Bordetella pertussis* Assay Harmonization & Standardization Meeting. Attended meeting to discuss the standardization of serological assays to detect *B. pertussis* disease. Atlanta, GA, July 19-20, 2007.

Anthrax: Bridging Correlates of Protection in Animals to Immunogenicity in Humans. Washington, D.C., November 8-9, 2007.

Program for Applications of Technology in Health (PATH) / Meningitis Vaccine Program (MVP). Attended Principal Investigators' meetings focusing on a phase III vaccine immunogenicity trial. Delivered a presentation and conducted a workshop related to the design and analysis of the clinical trial. Dakar, Senegal, June 20-22, 2007. Invited Speaker.

Program for Applications of Technology in Health (PATH) / Meningitis Vaccine Program (MVP) Progress Review Meeting. Delivered presentations discussing results of phase I and II vaccine immunogenicity studies. Ferney, France, May 3-4, 2007. Invited Speaker.

WHO Workshop on Standardization of Pneumococcal Opsonophagocytic Assay. Delivered a presentation of the critical issues of inter-laboratory study design and analysis. Geneva, Switzerland, January 25-26, 2007. Invited Speaker.

Program for Applications of Technology in Health (PATH) / Meningitis Vaccine Program (MVP). Attended Principal Investigators' meetings in Bamako, Mali and Banjul, The Gambia focusing on a phase II vaccine immunogenicity trial. Delivered a presentation and conducted a workshop related to the design and analysis of the clinical trial. July 11-20, 2006. Invited Speaker.

Program for Applications of Technology in Health (PATH) / Meningitis Vaccine Program (MVP) Progress Review Meeting. Delivered a presentation entitled 'The Application of Non-inferiority Hypothesis Testing in Vaccine Clinical Trials'. Ferney, France, March 16, 2006. Invited Speaker.

Current Challenges in Protein Therapeutics. Delivered a presentation entitled 'Statistical considerations for vaccine immunogenicity trials'. San Diego, CA, January 11-12, 2006. Invited Speaker.

Pneumococcal Antibody Opsonization Assay Meeting. Delivered a presentation of the statistical considerations on opsonization assay standardization. Atlanta, GA, June 5, 2005. Invited Speaker.

Neisseria meningitidis Group B Correlates of Protection and Assay Standardization. Delivered a presentation describing the statistical approaches to vaccine evaluation. Atlanta, GA, March 16-17, 2005. Invited Speaker.

Aerosol Challenge Technology & Application in Biodefense Meeting. Delivered a presentation on the statistical issues related to anthrax vaccination evaluation: correlates of protection and the resolution of missing values. Washington, D.C., December 3-4, 2003. Invited speaker.

National Vaccine Advisory Committee (NVAC) meeting on Pneumococcal Prevention in Adults: Potential Vaccine Strategies. Delivered a presentation on the statistical issues related to pneumococcal conjugate vaccine correlates of protection, evaluation and licensure issues. Washington, D.C., September 9-10, 2003. Invited speaker.

WHO conference on the Definition and Evaluation of Immune Correlates of Protection in Children that can Serve as the Basis for Licensure of Future Pneumococcal Conjugate Vaccines. Delivered a presentation discussing the statistical issues related to pneumococcal conjugate vaccine evaluation. Anchorage, AK, May 9, 2002. Invited speaker.

FDA seminar on the Statistical Considerations for Antibody Assay Standardization. Presented a seminar to the Center for Biologics and Evaluation Research, FDA. Washington, D.C., April 12, 2001. Invited Speaker

WHO conference on the Standardized Serological Assays as Correlates for Protective Efficacy for *Neisseria meningitidis* serogroup A Vaccines: Implication for the Regulatory Strategy for the EVA (Epidemic meningitis Vaccines for Africa). Delivered a presentation describing the CDC experience with ELISA and bactericidal assays for serogroup A meningococcus. Geneva, Switzerland, October 18, 2000. Invited speaker.

WHO conference on the Implications for Assay Parameters and Methods of Data Analysis for the Comparison of Complement Sources in the *Neisseria meningitidis* serogroup C Serum Bactericidal Assays. Delivered a presentation describing the statistical approaches for comparing two complement sources (human and baby rabbit) and served as a discussant for presentations made by other attendees. Geneva, Switzerland, October 17, 2000. Invited speaker.

WHO conference on Standardization and Validation of Immune Responses with a Pneumococcal IgG ELISA and Data Analysis for the Evaluation of Vaccine Immunogenicity. Delivered a presentation describing the statistical approaches for standardization of laboratory bioassays and subsequent data analysis. Geneva, Switzerland, October 16, 2000. Invited speaker.

PAHO/WHO Workshop on Standardization of Serological Assays for Evaluation of Immune Responses to *Streptococcus pneumoniae* Vaccines. Delivered a presentation describing the statistical approaches for analyzing a multi-center pneumococcal ELISA study. Washington, D.C., August 31-September 2, 1999. Invited speaker.

International Symposium on Pneumococci and Pneumococcal Diseases. Presented a poster describing the statistical methods applied to a multi-center pneumococcal ELISA study. Elsinore, Denmark, June 13-17, 1998.

WHO conference on Operational Research on Immunization, Prevention, and Control Strategies for Meningococcal Disease. Delivered a presentation on meningococcal disease surveillance in Burkina Faso, 1979-1985. Annecy, France, February 18-19, 1997. Invited speaker.

WHO Workshop on Pneumococcal ELISA Standardization. Delivered a presentation describing the standardization of ELISA data analysis techniques. CDC, Atlanta, GA, May 15-16, 1996. Invited speaker. Invited speaker.

WHO Workshop on Animal Models for Comparative Evaluation of Pneumococcal Common-Protein Antigens as Vaccine Candidates. CDC, Atlanta, GA, May 13-14, 1996.

International Workshop on Biological standards used in antibody measurements for microbiological diagnostics. Delivered a presentation describing the statistical analysis of antibody measurements from ELISA. Statens Serum Institute, Copenhagen, Denmark, September 14-15, 1995. Invited speaker.

International Workshop on Immunologic Assays for Pneumococcal Vaccines. Delivered a presentation describing the comparison of data analysis techniques for the quantitation of pneumococcal type-specific antibody concentration. CDC, Atlanta, GA, October 17-18, 1994. Invited speaker.

American Public Health Association, annual meetings. Delivered a presentation describing the Laboratory Information Tracking System. San Francisco, CA, October 27, 1993. Invited speaker.

American State and Territorial Public Health Laboratory Directors, annual meetings. Delivered a presentation describing the Laboratory Information Tracking System. Gatlinburg, TN, August 26, 1992. Invited speaker.

International Workshop on Meningococcal Immunology and Subtyping II. Moderated a session dealing with the statistical issues regarding meningococcal serology data, CDC, Atlanta, Ga, June 17-19, 1992. Invited speaker.

International Workshop on Meningococcal Serology I. Moderated a session dealing with the statistical analyses and data management of meningococcal serology data, CDC, Atlanta, GA, August 27, 1990. Invited speaker.

Workshop on Immunoglobulin Class and Subclass. Delivered a presentation describing the statistical analyses of ELISA data as it pertains to immunoglobulins, CDC, Atlanta, GA, May 22, 1989. Invited speaker.

Advanced ELISA Workshop. Delivered a presentation describing the statistical analyses of ELISA data. CDC, Atlanta, GA, May 16, 1988. Invited speaker.

Perspectives in Epidemiology Seminar Series. Presented three seminars detailing multiple linear logistic regression. CDC, Atlanta, GA, January-February, 1983.

CDC Statistical Seminar Series. Presented two seminars describing the estimation of multiple relative risks in case-control studies: multiple linear logistic techniques. CDC, Atlanta, GA, November, 1980.

International Activities

Advisor to the World Health Organization, Immunizations, Vaccines and Biologicals Department, while attending meeting of WHO Expert Committee on Biological Standardization to present revisions to the pneumococcal conjugate vaccine guidance documents. Geneva, Switzerland, October 21-22, 2009

Advisor to the World Health Organization, Immunizations, Vaccines and Biologicals Department, while attending WHO working group to discuss revisions to the pneumococcal conjugate vaccine guidance documents. Berkshire, England, June 23-24, 2009

Advisor to the World Health Organization, Immunizations, Vaccines and Biologicals Department, while attending WHO/Health Canada Consultation on Serological Criteria for Evaluation and Licensing of new Pneumococcal Vaccines. Ottawa, Canada, July 7-8, 2008

Senior Advisor for Biostatistics for the Meningitis Vaccine Program (MVP), attended Principal Investigators' meeting in Dakar, Senegal focusing on phase III trials for the development, evaluation, and licensure of a serogroup A/C meningococcal conjugate vaccine for use in sub-Saharan Africa. June 20-22, 2007.

Advisor to the World Health Organization, Immunizations, Vaccines and Biologicals Department, while attending meetings to discuss the design and analysis of inter-laboratory studies to evaluate pneumococcal opsonophagocytic assays. Geneva, Switzerland, January 25-26, 2007.

Senior Advisor for Biostatistics for the Meningitis Vaccine Program (MVP), attended Principal Investigators' meetings in Bamako, Mali and Banjul, The Gambia focusing on phase II trials for the development, evaluation, and licensure of a serogroup A/C meningococcal conjugate vaccine for use in sub-Saharan Africa. July 11-20, 2006.

Statistical Consultant, Serum Institute of India. Discussed several issues related to quality control and quality assurance topics with scientists from this vaccine manufacturing facility. Pune, India, February 19-21, 2006.

Statistical Consultant, iGATE Clinical Research International. Finalized statistical analysis report for phase I study and discussed phase II protocol for meningococcal serogroup A vaccine clinical trials for the Meningitis Vaccine Program (MVP). Mumbai, India, February 11-18, June 19-23, 2006.

Senior Advisor for Biostatistics for the Meningitis Vaccine Program (MVP), focused on the development, evaluation, and licensure of a serogroup A/C meningococcal conjugate vaccine which will be used in mass vaccination campaigns in countries of the sub-Saharan African meningitis belt. 2003-

Advisor to the World Health Organization, Division of Vaccine Development, Vaccines and Other Biologicals, while attending Consultation Meeting on WHO Guidelines for Production and Quality Control of Pneumococcal Conjugate Vaccines. This meeting focused on developing licensure guidelines for pneumococcal vaccines and discussing production and quality control protocols for these vaccines. Geneva, Switzerland, June 4-5, 2003.

Advisor to the World Health Organization, Division of Vaccine Development, Vaccines and Other Biologicals, while attending meetings to discuss vaccine evaluation and research for pneumococcal conjugate vaccines. Anchorage, AK, May 9, 2002.

Advisor to the World Health Organization, Division of Vaccine Development, Vaccines and Other Biologicals, while attending meetings to discuss vaccine evaluation and research for *Streptococcus pneumoniae*, *Neisseria meningitidis* Serogroup A, and *Neisseria meningitidis* Serogroup C vaccines. Geneva, Switzerland, October 16-18, 2000.

Advisor to the World Health Organization, Subcommittee on Polysaccharide and Conjugate Vaccines while attending Workshop on Standardization of Serological Assays for Evaluation of Immune Responses to *Streptococcus pneumoniae* Vaccines. Washington, D.C., August 31-September 2, 1999.

Advisor to the World Health Organization, Expert panel for the Development of Guidelines for Clinical Trials of Vaccines, 1999-.

Advisor to World Health Organization/Pan American Health Organization, International Monitoring Committee for a study comparing bactericidal activity elicited by two serogroups B meningococcal vaccines in Santiago, Chile. Meeting to discuss results was held in Washington, D.C., June 19-20, 1995.

Advisor to World Health Organization, Subcommittee on Polysaccharide and Conjugate Vaccines while attending workshops on 1) the comparative study of two meningococcal serogroup B vaccines in Iceland and 2) on animal models for the evaluation of meningococcal and pneumococcal candidate vaccines. Both were held September 30 through October 1, 1994 at Winchester, England.

Statistical consultant, World Health Organization, International Monitoring Committee, for the study of the comparison of immunogenicity and bactericidal activity elicited by two efficacious serogroup B meningococcal vaccines, Reykjavik, Iceland. This study included participants from Iceland, Cuba, Norway, and CDC. Analyzed the data for this study as well as managed and distributed the data to the collaborating laboratories. Attended conferences in Iceland to discuss the results of the study, August, 1993 and, again in September, 1994 at Winchester, England.

Consulted with field representatives of the Medical Research Council, United Kingdom, with regards to initiating a pneumococcal disease surveillance system in The Gambia, 1989.

Served as a consultant to the Biomedical Center for Infectious Diseases in Cairo, Egypt on the penicillin therapy for group A streptococcus, 1979.

Committees

Co-Chairman, CDC NCIRD Informatics Governance Council, 2010-

GlaxoSmithKline Biologicals Advisory Board convened to discuss statistical methods employed to derive case definition for pneumococcal pneumonia. New York, NY, March 19-20, 2008.

Chairman, CDC Source Selection Evaluation Board (A-76) for Statistical Support Services. 2005.

CDC Workgroup on Human Genomics in the Acute Public Health Response. Participated in the organization of Expert Panel Meeting. 2004.

Anthrax Vaccine Research Program Steering Committee. Design and conduct a 5 year multi-site study to evaluate the current anthrax vaccine being administered to military personnel. 2000-present.

CDC Internet Standards Committee. Create CDC policy towards the use of the Internet, creation of web pages, etc. 1994-1996.

CDC Epidemiologic and Statistical Methods Retreat. Developed plans for sustaining and enhancing acquisition and application of epidemiologic and statistical methods for public health analysis at CDC. September 23-24, 1991.

Advisor, National Committee for Clinical Laboratory Standards, Subcommittee on Laboratory Statistics. Develop scientific protocols for the application of statistical methodology to data sets acquired from laboratory procedures. 1990-1996.

Editorial Activities

Serve as a reviewer for the following journals:

The Lancet Infectious Diseases
Vaccine
Journal of Clinical Microbiology
Clinical Infectious Diseases
American Journal of Public Health
Emerging Infectious Disease
American Journal of Infection Control
Clinical Chemistry
Journal of Immunological Methods

Peer-Reviewed Publications

156. Bowen, A., MD, MPH, Agboatwalla, M., MBBS, Pitz, A., PhD, Salahuddin, S., MBBS, Brum, J., MD, MS, Plikaytis, B., MS, Effect of Bismuth Subsalicylate vs Placebo on Use of Antibiotics Among Adult Outpatients With Diarrhea in Pakistan A Randomized Clinical Trial. *JAMA Network Open*. 2019;2(8):e199441. doi:10.1001/jamanetworkopen.2019.9441. <https://jamanetwork.com/> on 08/21/2019.
155. Pawloski, L.C., Plikaytis, B.D., Martin, M.D., Martin, S.W., Prince, H.E., Lapé-Nixon, M., Tondella, M.L., Evaluation of Commercial Assays for Single-Point Diagnosis of Pertussis in the US. 2017;6(3), e15–e21.
154. Hosken, N., Plikaytis, B., Trujillo, C., Mahmood, K., Higgins, D., and the Participating Laboratories Working Group, A Multi-laboratory Study of Diverse RSV Neutralization Assays Indicates Feasibility for Harmonization with an International Standard. *Vaccine*, 35:3082-3088, 2017.
153. Isanaka, S., Guindo, O., Langendorf, C., Seck, A.M., Plikaytis, B.D., Sayinzoga-Makombe, N., McNeal, M.M., Meyer, N., Adehossi, E., Djibo, A., Jochum, B., Grais, R.F., Efficacy of a Low-Cost, Heat-Stable Oral Rotavirus Vaccine in Niger. *NEJM*, 376:1121-30, 2017.
152. Burton, R.L. Antonello, J., Cooper, D., Goldblatt, D., Kim, K.H., Plikaytis, B.D., Roalfe, L., Wauters, D., Williams, F., Xie, G.L., Nahm, M.H., Akkoyunlug, M., Assignment of Opsonic Values to Pneumococcal Reference Serum 007sp for Use in Opsonophagocytic Assays for 13 Serotypes. *Clin. Vaccine Immunol.*, 24:1-13, 2016.
151. Cohn, A., MacNeil, J., Harrison, L., Lynfield, R., Reingold, A., Schaffner, W., Zell, E., Plikaytis, B., Wang, X., Messonnier, N., Effectiveness and Duration of Protection of One Dose of a Meningococcal Conjugate Vaccine. *Pediatrics*, 2017;139(2):e20162193
150. Pawloski, L.C., Plikaytis, B.D., Martin, M.D., Martin, S.W., Prince, H.E., Lape-Nixon, M., Tondella, M.L., Evaluation of Commercial Assays for Single-Point Diagnosis of Pertussis in the US. *J. Pediatr. Infect. Dis.* 2016; doi: 10.1093/jpids/piw035
149. Quinn, C.P., Sabourin, C.L., Schiffer, J.M., Niemuth, N.A., Semenova, V.A., Li, H., Rudge, T.L., Brys, A.M., Mittler, R.S., Ibegbu, C.C., Wrammert, J., Ahmed, R., Parker, S.D., Babcock, J., Keitel, W., Poland, G.A., Keyserling, H.L., Sahly, H.E., Jacobson, R.M., Marano, N. Plikaytis, B.D., Wright, J.G., Humoral and Cell-Mediated Immune Responses to Alternate Booster Schedules of Anthrax Vaccine Adsorbed in Humans. *Clin. Vaccine Immunol.*, 23:326-338, 2016.

148. Conklin, L.M., Bigogo, G., Jagero, G., Hampton, L., Junghae, M., Carvalho, M.G., Pimenta, F., Beall, B., Taylor, T., Plikaytis, B., Laserson, K.F., Vulule, J., Van Beneden, C., Whitney, C.G., Breiman, R.F., Feikin, D.R., High *Streptococcus pneumoniae* colonization prevalence among HIV-infected Kenyan parents in the year before pneumococcal conjugate vaccine introduction. BMC Infectious Diseases 18:1-10, 2016
147. Chowdhury, P.R., Meier, C., Laraway, H., Tang, Y., Hodgson, A., Sow, S.O., Enwere, G.C., Plikaytis, B.D., Kulkarni, P.S., Preziosi, M.P., Niedrig, M., Immunogenicity of yellow fever vaccine coadministered with MenAfriVac in healthy infants in Ghana and Mali. CID 2015:61 (Suppl 5) S586-S593, 2015.
146. Holme, D., Findlow, H., Sow, S.O., Idoko, O.T., Preziosi, M.P., Carlone, G., Plikaytis, B., Borrow, R., *Neisseria meningitidis* group A IgG1 and IgG2 subclass immune response in African children aged 12–23 months following meningococcal vaccination. CID 2015:61 (Suppl 5) S563-S569, 2015.
145. Price, G.A., Hollander, A.M., Plikaytis, B.D., Mocca, B.T., Carlone, G., Findlow, H., Borrow, R., Sow, S.A., Diallo, A., Idoko, O.T., Enwere, G.C., Elie, C., Preziosi, M.P., Kulkarni, P.S., Bash, M.C., Human complement bactericidal responses to a group A meningococcal conjugate vaccine in Africans and comparison to responses measured by 2 other group A immunoassays. CID 2015:61 (Suppl 5) S554-S562, 2015.
144. Tang, Y., Plikaytis, B.D., Preziosi, M.P., Borrow, R., Influence of age on antibody response and persistence following immunization with MenAfriVac. CID 2015:61 (Suppl 5) S531-S539, 2015.
143. Diallo, A., Sow S., Idoko, O.T., Hirve S., Findlow, H., Preziosi, M.P., Elie, C., Kulkarni, P.S., Parulekar, V., Diarra, B., Haidara, F.C., Diallo, F., Tapia, M., Akinsola, A.K., Adegbola, R.A., Bavdekar, A., Juvekar, S., Chaumont, J., Martellet, L., Marchetti, E., LaForce, F.M., Plikaytis, B.D., Enwere, G., Tang, Y., Borrow, B., Carlone, G., Viviani, S., Antibody persistence at 1 and 4 years following a single dose of MenAfriVac® or quadrivalent polysaccharide vaccine in healthy subjects aged 2 to 29 years. CID 2015:61 (Suppl 5) S521-S530, 2015.
142. Tapia, M.D., Findlow, H., Idoko, O.T., Preziosi, M.P., Kulkarni, P.S., Enwere, G.C., Elie, C., Parulekar, V., Sow, S.O., Haidara, F.C., Diallo, F., Doumbia, M., Akinsola, A.K., Adegbola, R.A., Kampmann, B., Chaumont, J., Martellet, L., Marchetti, E., Viviani, S., Tang, Y., Plikaytis, B.D., LaForce, F.M., Carlone, G., Borrow, R., Antibody persistence 1–5 years following vaccination with MenAfriVac in African children vaccinated at 12–23 months of age. CID 2015:61 (Suppl 5) S514-S520, 2015.

141. Tapia, M.D., Sow, S.O., Haidara, F.C., Diallo, F., Doumbia, M., Enwere, G.C., Paranjape, G., Hervé, J., Bouma, E., Parulekar, V., Martellet, L., Chaumont, J., Plikaytis, B.D., Tang, Y., Kulkarni, P.S., Hartmann, K., Preziosi, M.P., A phase 3, double-blind, randomized, active controlled study to evaluate the safety of MenAfriVac in healthy Malians. *CID* 2015;61 (Suppl 5) S507-S513, 2015.
140. Acácio, S., Verani, J.R., Lanaspá, M., Fairlie, T.A., Nhampossa, T., Ruperez, M., Aide, P., Plikaytis, B.D., Sacoor, C., Macete, E., Alonso, P.L., Sigauque, B., Under treatment of pneumonia among children under 5 years of age in a malaria-endemic area: population-based surveillance study conducted in Manhica district-rural, Mozambique. *Int. J. Infect. Dis.*, 36:e39-e45, 2015
139. Wang, X., Shutt, K.A., Vuong, J.T., Cohn, A., MacNeil, J., Schmink, S., Plikaytis, B., Messonnier, N.E., Harrison, L.H., Clark, T.A., Mayer, L.W., Changes in the population structure of invasive *Neisseria meningitidis* in the United States after quadrivalent Meningococcal Conjugate Vaccine Licensure. *J. Infect. Dis.*, 211:1887-1894 2015.
138. Chen, L., Schiffer, J.M., Dalton, S., Sabourin, C.L., Niemuth, N.A., Plikaytis, B.D., Quinn, C.P., Comprehensive analysis and selection of Anthrax Vaccine Adsorbed immune correlates of protection in Rhesus Macaques. *Clin. Vaccine Immunol.*, 21:1512-20, 2014
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