

**Cover Sheet for Curriculum Vitae of Rank Name, M.D., M.P.H. -Date**

**PERFORMANCE**

- Consistently outstanding ratings on all COER elements
- Outstanding Service Medal (2007), for leadership in founding the Intermittent Preventive Treatment in Infants (IPTi) Consortium.
- Additional PHS awards: Commendation Medal (2002); Achievement Medal (2003, 2004); Citation (2004, 2006); Outstanding Unit Citation (2002, 2005, 2007, 2007); Crisis Response Service Award (2002, 2006); Foreign Duty Award (2001, 2002, 2004, 2005); Special Assignment Award (2006)
- Awarded the 2003 Donald F. Hagen Young Physician award for "Dedication to improving the prevention and control of Malaria during pregnancy in sub-Saharan Africa" by AMSUS
- Awarded 2002 Paul C. Schnitker Award for Global Public Health by CDC for Outstanding Contributions to the Control of Malaria during Pregnancy
- Internationally recognized expert on Malaria
- CDC Team lead of high-profile \$1.2 billion US President's Malaria Initiative, 2006-present
- Founding executive committee member of the international IPTi Consortium investigating strategies to prevent malaria during infancy; received \$2 million from Gates Foundation

**EDUCATION, TRAINING, AND PROFESSIONAL DEVELOPMENT**

- BA (English, 1988); MD (1993), MPH (Epidemiology and International Health, 1998)
- Pediatric residency, (1993-1996)
- National Service Research Award (NRSA) Fellow in General Pediatrics, 1996-1998
- Country Director for non-governmental organization in Mozambique (45 employees), 1998-2000
- Board certified, Pediatrics (Continuous since 1996; Current certificate expires 2010)
- [state redacted] State Medical License (no expiration); [state redacted] Medical License, expires \_\_\_\_
- Clinical Privileges, St. Joseph's Hospital and Medical System, Atlanta
- Completed training as an Epidemic Intelligence Service Officer at CDC, 2000-2002
- Selected for and completed CDC Leadership & Management Institute, 2005-2006
- >200 Hours CME for 2005-2007
- Demonstrated ability to design, execute, manage, analyze, present, and write-up scientific studies
- Excellent writing skills -- more than 50 published peer-reviewed and government (MMWR) manuscripts to date, of which >25 are either first-author or senior-author
- Outstanding interpersonal and diplomatic skills developed during many years of work in international settings; meet with Ministers, Ambassadors, and other senior politicians

**CAREER PROGRESSION AND POTENTIAL**

- Has progressed rapidly from O-4 to O-6 Supervisory Billet with steeply increasing responsibilities; CDC Team Lead of the US President's Malaria Initiative, supervising team of >35 CDC staff (including 5 CC Medical Officers) in the U.S. and 15 African countries
- Promoted to Temporary O-4, 2/1/01; Temporary O-5, 7/1/04; Permanent O-4, 12/17/04.
- Chief of Program Implementation Unit, Malaria Branch, April 2006-present
- Deputy Chief for Science, Malaria Branch, April 2006-present
- CDC Team Lead, President's Malaria Initiative, April 2006-present
- Chief of Malaria during Pregnancy and Domestic Response Activities, Nov 2005-April 2006
- Acting Associate Director for Science Division of Parasitic Diseases (Jan-Dec 2005)
- Acting Chief of Malaria during Pregnancy and Domestic Response Activities, Jan-April 2003

**CHARACTERISTICS OF CAREER OFFICER AND SERVICE TO CORPS**

- Wear PHS uniform daily with pride
- Assimilated into Regular Corps, 2006
- Continuously deployment ready since 10/2003
- Volunteer pediatrician at Mercy Mobile Clinic in Atlanta, GA serving refugees and immigrants
- Volunteer for assignments outside of usual role: NYC following terrorist attacks; SARS; Emergency Operations Center for anthrax attacks and hurricanes; influenza preparedness exercise
- Ever changing roles within Malaria Branch with increasing responsibility
- Role as Acting Associate Director for Science for Division of Parasitic Diseases for 1 year
- Voting Member of Physician Professional Advisory Committee (PPAC) from 2005-2007; re-appointed to second term (2008-2010); chair, PPAC [redacted name of] subcommittee

## CURRICULUM VITAE

CDR Name, M.D., M.P.H.

Chief, [program unit redacted]  
CDC Team Lead, President's [name of redacted] Initiative  
Deputy Chief for Science, [name of redacted] Branch  
Division of [redacted] Diseases  
National Center for Zoonotic, Vector Borne and Enteric Diseases  
Centers for Disease Control and Prevention

Address

Telephone: Fax:

### Supervisor (May contact)

Name, MD, MPH

Phone#

Email

### EDUCATION AND TRAINING

1998	M.P.H.	University of Washington School of Public Health, Seattle, WA
1993	M.D.	Johns Hopkins University School of Medicine, Baltimore, MD
1988	B.A. (English)	Williams College, Williamstown, MA (Magna cum Laude)

### POSTGRADUATE TRAINING

2000 - 2002	Epidemic Intelligence Service, CDC, Atlanta, GA
1996 - 1998	General Pediatric Fellowship, University of Washington, Seattle, WA
1993 - 1996	Residency and Internship, Children's Hospital and Medical Center, University of Washington, Seattle, WA

### CERTIFICATION AND LICENSURE

Federation Licensing Examination (FLEX)	1993
State of _____ Medical License	1993 - present
American Board of Pediatrics	1996 - present
State of _____ Medical License	2000 - present
DEA License _____	1993 - present

### FACULTY APPOINTMENTS

1998 - present	Clinical Associate Professor, Department of Health Services, University of Washington School of Public Health and Community Medicine
1996 - 2000	Clinical Assistant Professor, Department of Pediatrics, University of Washington School of Medicine

## PHS CAREER PROGRESSION

2006 Assume O-6 Supervisory Billet (01CC232)  
2006 Assimilation  
2004 Promoted to Permanent O-4  
2004 Promoted to Temporary O-5  
2003 Assume O-6 Billet (01CC204)  
2002 Assume O-5 Billet (01CC202)  
2001 Promoted to Temporary O-4  
2000 Commission ( Temporary O-3; Permanent O-3)

## PHS PROFESSIONAL EXPERIENCE

04/2006-present **Chief, Program Implementation Unit**  
**Deputy Chief for Science, [branch name redacted] Branch**  
**CDC Team Lead, President's [redacted] Initiative**  
**Current Billet: Supervisory O-6; Current Pay Grade: O-5**  
**Hours per week: 50**

**Chief, Program Implementation Unit and CDC Team Lead, President's [redacted name of initiative]**

### Major duties and accomplishments

- Lead CDC Team on \$1.2 billion 5-year Presidential Initiative to cut malaria mortality by 50% in 15 African Countries (Angola, Benin, Ethiopia, Ghana, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Senegal, Rwanda, Tanzania, Uganda, Zambia)
- To accomplish this, have grown staff within Program Implementation Unit from fewer than 5 to current level of 18 staff, with plans to add 10 more staff in the next 6 months.
- Oversee an additional 14 people from other Units within the Malaria Branch and from the Entomology Branch who provide direct technical assistance to PMI. Overall, leading team of >35 CDC staff working on PMI
- Has designed team structure, including creation of a cadre of senior staff, the creation of a monitoring and division of the 15 PMI countries into 3 clusters of 5-countries each
- Responsible for CDC Agency positions within PMI, most importantly assuring that programmatic interventions are grounded in evidence, and that the evaluation of PMI impact is scientifically sound.
- Responsible for agency communication with the PMI Coordinator in Washington.
- Successful in setting aside \$2.5 million for FY2008 to conduct operational research vital to PMI success.
- Co-lead of Interagency Technical Working Group (TWG) that reviews all malaria Operational Plans for PMI and sets scientific and programmatic direction.
- Present to the Interagency Steering Group (ISG), the body that approves all Malaria Operational Plans
- Coordinate with CDC leadership within the Global AIDS Program (GAP) to ensure maximum collaboration between PMI and the President's Emergency Plan for AIDS Relief (PEPFAR).
- Represent CDC at White House events regarding malaria, including the White House Summit on Malaria (December 2006), and the Malaria Awareness Day event at the White House (April 2007)
- Speak to the press about PMI and malaria control

**Impact**

- PMI has conducted indoor residual spraying (IRS) in five PMI countries, benefiting over five million people. IRS has helped to protect about 10 million people from malaria across PMI countries
- PMI has procured and distributed over 4.2 million long-lasting insecticide-treated mosquito nets (LLINs) since its launch in 2006. Also, PMI has already supported the re-treatment of over 500,000 regular mosquito nets
- In the first two years, PMI has procured 15 million treatments of highly effective artemisinin-based combination therapies (ACTs) for six PMI countries. To support the correct use of ACTs, PMI trained over 14,000 health workers in their correct use;
- PMI procured more than 1.5 million treatments in 2006-2007 for intermittent preventive treatment of malaria in pregnancy (IPTp); and
- PMI is also building the capacities of National Malaria Control Programs in the areas of pharmaceutical management, diagnosis, IRS, malaria in pregnancy, and monitoring and evaluation.

**Deputy Chief for Science, [branch name redacted] Branch**

**Major Duties**

- Serve as acting Branch Chief when Chief is absent
- Represent [name of branch redacted] Branch at higher levels within CDC and to outside partners at request of Branch Chief
- Clear scientific manuscripts as required
- Work with Branch Chief and Unit Chiefs to set Scientific and Programmatic direction for Malaria Branch

11/2005-04/2006

**Chief, Malaria in Pregnancy and Domestic Response Units  
[branch name redacted] Branch, Division of [name redacted], CDC**

Primary responsibility for leadership over 2 units within the malaria branch including setting scientific and programmatic agendas and supervising all staff in the units. Additional duties and activities are described in sections below.

01/2005-12/2005

**Associate Director for Science (acting)  
Division of [name redacted], NCID  
Centers for Disease Control and Prevention  
Atlanta, GA**

**Primary responsibility for monitoring of scientific research activities within Division.**

**Major duties included:**

- Participate as part of Senior Management Team of the Division
- Acting Division Director for one month while Director and Deputy were on TDY
- Assist Division Leadership in setting scientific priorities
- Serve as a member of the Institutional Review Board (IRB) at CDC
- Review of all new research protocols within Division
- Assure compliance with appropriate CDC and HHS regulations regarding conduct of research
- Assist scientists in the planning and conduct of research studies, and in accessing relevant information related to science policies and regulations
- Assure division sponsored science meets highest ethical standards
- Work with scientists to measure science impact
- Work with scientists to ensure the timely translation of research into practice
- Represent the Division on science matters at the Center and CDC level
- Communicate with NCID ADS about Division-level science activities



07/2002-present      **Medical Officer**  
**[name redacted] Branch,**  
**Division of [name redacted], NCID**  
**Centers for Disease Control and Prevention**  
**Atlanta, GA**

**(See principal duties, accomplishments, and public health impact below)**

07/2000- 06/2002      **Epidemic Intelligence Service (EIS) Officer,**  
**Epidemiology Program Office**  
**Centers for Disease Control and Prevention**  
**Atlanta, GA**  
**Assigned to: Malaria Epidemiology Branch, DPD, NCID**

**(See principal duties, accomplishments, and public health impact below)**

**Principal duties, accomplishments, and public health impact (07/2000-present)**

**Principal Investigator, Intermittent Preventive Treatment in Infants (IPTi) – Kisumu, Kenya**

- Founding and executive committee member of an international consortium (IPTi Consortium), a group of research teams across 3 continents dedicated to harmonizing studies on this important public health topic; received funding in 2003 from the Bill & Melinda Gates Foundation for a 5-year package of research (\$2.1 million for CDC)
- Author and principal investigator for CDC Component of the IPTi Consortium Package
  - Placebo-controlled, double-blind, randomized controlled trial
  - Enrolled approximately 1500 infants
  - Primary study completed; analysis and write-up ongoing
- The IPTi Consortium delivered to WHO – within 4 years from inception – a dossier of evidence regarding IPTi with sulfadoxine-pyrimethamine including efficacy, safety, potential interactions with vaccines, acceptability, and cost effectiveness. CDR Newman co-designed the architecture of the Consortium, set timetables, and reviewed and assisted in packaging the dossier that was submitted to WHO.
- Developed the concept of and secured funding from the Bill & Melinda Gates Foundation for the Drug Resistance Working Group within the IPTi Consortium. His proposal was funded with \$1.2 million in 2006. This Working Group provided critical evidence to the Consortium and to WHO regarding: 1) the relationship between the efficacy of antimalarial drugs used for IPTi and the efficacy of antimalarial drugs used for treatment of children with symptomatic malaria, and 2) the impact that IPTi has on the spread of drug resistant *Plasmodium falciparum* parasites.

**Impact**

- Pooled analyses of the IPTi trials conducted to date has demonstrated that IPTi with sulfadoxine-pyrimethamine prevents 30% of clinical malaria, 38% of malaria-related hospitalizations, and 15% of severe anemia – all in the first year of life. The intervention is safe and well-tolerated, does not interfere with the serologic response to vaccines administered through the Expanded Program on Immunizations, is accepted by parents and guardians, and is highly cost-effective (<\$10 per disability adjusted life year averted). The strategy represents a major breakthrough in malaria control: a very inexpensive and cost-effective intervention that takes advantage of an existing health care delivery platform (immunizations).
- IPTi has already been implemented through UNICEF in selected districts of six African nations: Benin, Ghana, Malawi, Mali, Madagascar, and Senegal. These pilot interventions are covering ~300,000 infants – preventing an estimated 100,000 episodes of clinical malaria, 600 episodes of severe anemia, and 7,000 malaria related hospitalizations in a single year.

**Principal Investigator, Pharmacokinetics of chlorproguanil-dapsone during pregnancy**

- Received \$60,000 award from the Office of Minority and Women's Health for this work
- Randomized trial with 198 pregnant women
  - Outcomes: pharmacokinetic profile of chlorproguanil-dapsone and proportion of women who become re-infected with malaria between the time of treatment for *P. falciparum* malaria and delivery (comparing chlorproguanil-dapsone with sulfadoxine-pyrimethamine)
  - Study began late 2005; trial ongoing
- Received \$350,000 award from World Health Organization for Phase III trial of chlorproguanil-dapsone in pregnant women

**Principal Investigator, Characterization of novel molecular tools for the epidemiological surveillance of antimalarial drug resistance in Mali**

- Received ~\$250,000 award from the Antimicrobial Resistance Working Group in the National Center for Infectious Diseases over 3 years
- *In vivo* antimalarial drug efficacy trials in >1000 children in 3 sites in Mali
  - Large laboratory component to study relationship between *in vivo* antimalarial drug resistance and molecular markers for drug resistance
  - Study from 2004-2007; analysis and write-up ongoing

**Technical assistance to the Malaria Action Coalition (MAC)**

- USAID-funded project bringing together 4 partners: CDC, World Health Organization, Maternal and Neonatal Health (MNH) Program of JHPIEGO, and the Rational Pharmaceutical Management (PRM+) Program of Management Sciences for Health (MSH)
  - CDC budget of >1 million dollars per year
- Provide technical assistance on malaria during pregnancy to African Ministries of Health, USAID missions, and to subregional coalitions and networks dedicated to the prevention of malaria during pregnancy
- Provide technical support in the drafting of technical documents for partner organizations
- Supervised junior staff at CDC in provision of this technical assistance

**Creation of the West African Network for the Prevention of Malaria during Pregnancy (Reseau d'Afrique de l'Ouest contre le Paludisme Pendant la Grossesse - RAOPAG)**

- Conceived of and spearheaded creation of the network
- Wrote initial terms of reference for the network
- Initial funding provided by USAID West Africa Regional Project Office
- 11 Countries participating: Benin, Burkina Faso, Côte d'Ivoire, the Gambia, Guinea, Mauritania, Mali, Niger, Senegal, Sierra Leone, and Togo

**CDC representative to the Malaria in Pregnancy Working Group of Roll Back Malaria**

- One of 7 technical working groups that provides guidance to the Roll Back malaria Secretariat at the World Health Organization in Geneva
- Attend twice-yearly meetings and give technical updates on CDC-related activities
- Assist in preparation of technical materials on behalf of the Working Group

**Principal investigator : Rapid assessment of the burden of malaria during pregnancy in Oromia, Gambella, Amhara, SNNP, and Afar Regions - Ethiopia**

- Principal investigator for 6-site study in Ethiopia; approximately 2000 women enrolled in quantitative study and 500 women enrolled for ethnographic assessment
  - **Impact**
- Recommended and developed protocol to study malaria during pregnancy during epidemics

- Pilot intervention strategy with insecticide treated bednets for pregnant women was adopted by Regional MOH Officials for stable malaria transmission areas
- Recommendation that Ethiopia not use intermittent preventive treatment for malaria during pregnancy in epidemic-prone or unstable transmission areas, but seek alternatives, was adopted by MOH, preventing unnecessary antimalarial use
- Assessment in Ethiopia has contributed new scientific knowledge about the burden of malaria during pregnancy in areas of unstable transmission, suggesting that novel strategies need to be devised to combat the problem in such areas throughout Africa. Manuscript published in *Journal of Infectious Diseases*.

**Principal investigator: Rapid assessment of the burden of malaria during pregnancy in Koupéla District, Burkina Faso (2001 and 2004)**

- Served as principal investigator for two assessments. The first enrolled approximately 1400 women and demonstrated strong evidence for failure of chloroquine to prevent malaria during pregnancy – leading to maternal anemia, low birth weight, and premature delivery. The second enrolled approximately 2,000 women, and demonstrated that a program of intermittent preventive treatment with sulfadoxine-pyrimethamine was associated with a reduction on the prevalence of peripheral and placental parasitemia and anemia.

**Impact**

- Burkina Faso changed its policy from chloroquine chemoprophylaxis to intermittent preventive treatment with sulfadoxine-pyrimethamine, in line with CDC and WHO recommendations
- Conceived of and spearheaded organization of a regional workshop held in Burkina Faso to discuss common strategies for the prevention of adverse effects of malaria during pregnancy in West Africa; attending countries included Senegal, Mali, Benin, and Burkina Faso
- Six of seven countries adopted recommended pilot intervention strategy of intermittent preventive treatment using sulfadoxine-pyrimethamine for preventing the adverse outcomes of malaria during pregnancy, and four recommended phased-in policy change with this new strategy, replacing prophylaxis with chloroquine for pregnant women
- All seven countries made a series of regional recommendations including: 1) the adoption of new policies for the prevention of malaria during pregnancy, 2) stricter collaboration between malaria control programs and reproductive health departments, and 3) creation of the West Africa Regional Network for the Prevention and Control of Malaria during Pregnancy

**Consultant to World Health Organization: Development of a global framework for the monitoring and evaluation of malaria during pregnancy**

- Member of six-person team invited to WHO to develop initial framework
- Chosen to write up draft framework
- Member of second consultation team to finalize framework

**Impact**

- Framework will be used by WHO/Roll Back Malaria to evaluate progress towards meeting those goals regarding malaria during pregnancy as laid out in the Abuja declaration
- Framework will be the reference standard for monitoring all malaria during pregnancy activities in sub-Saharan Africa; will improve quality and consistency of evaluations
- Strategy for M&E has been adopted by five countries in East Africa

**Author of definitive reference article: Safety, efficacy, and determinants of effectiveness of antimalarial drugs during pregnancy for WHO consultation; included in WHO expert document**

- Article was presented at a consultation regarding antimalarial drugs at WHO in Geneva by Chief of Malaria Epidemiology Branch

- Document was included in the overall expert report of the consultation by WHO
  - Major review article published in *Tropical Medicine and International Health*
- Impact**
- Document will serve as a standard reference on the subject in the future.
  - Document will help to guide drug selection for ministry of health personnel involved in development of programs for the prevention of the adverse consequences of malaria during pregnancy

**Principal epidemiological analysis: Impact of maternal malaria infection on perinatal transmission of HIV in western Kenya**

- Cohort study with 512 mother-infant pairs
  - Managed merging of diverse datasets and conducted all statistical analyses
  - Co-author of two manuscripts (corresponding author for one of these manuscripts)
- Impact**
- Principal finding, that placental malaria does not increase risk for perinatal transmission of HIV, has enormous (positive) public health implications for sub-Saharan Africa, where the two diseases are endemic.
  - Secondary finding that certain HIV viral subtypes are associated with a higher risk of mother-to-child HIV transmission has implications for HIV vaccine development and understanding placental immunology

**Key role in strengthening domestic malaria activities:**

**National Malaria Surveillance System**

Crucial role in improving the National Malaria Surveillance System, primarily through his dedication to improving the speed and completeness of malaria case reporting from State Health Departments. He has also demonstrated creativity in responding thoughtfully to the needs and suggestions of State Health Departments

- Designed system of regular communication with State Health Departments through the following steps:
  - Creation of a database of National Malaria Surveillance System (NMSS) contacts in each State Health Department
  - Creation of a yearly plan of scheduled contact with these persons asking for an update on cases, as well as updates on the designated NMSS contact person
  - Active follow-up for all states that have not reported cases to CDC by June 30 of each year
- Designed system for sending cases reported directly to CDC by health care providers back to states by facsimile upon receipt
- One of the primary contributors to the redesign of the reporting form for NMSS
- Co-Author of Malaria Surveillance – United States, 1997 (*MMWR* 2001;50(SS1):25-44)
- Primary author of Malaria Surveillance – United States, 1999 (*MMWR* 2002;51(SS1):15-28)
- Supervisor and co-author of Malaria Surveillance – Unites States, 2000 (*MMWR* 2002;51(SS5):9-24)
- Supervisor and co-author of Malaria Surveillance – Unites States, 2001 (*MMWR* 2003 52(SS5):1-16)
- Created maps for *State Health Profiles* (an NCID publication) showing distribution of malaria cases in the USA over the past decade
- Helped to organize national meeting of experts to review CDC Malaria Chemoprophylaxis Guidelines, January 2003
- Contributing writer to *Health Information for International Travel 2003-2004*

### **Impact**

- Modifications to National Malaria Surveillance system have resulted in increase in reporting from states (to 100% of states)
- Has allowed CDC to better track burden of malaria and patterns of morbidity and mortality
- Improved relationship between State Health Departments and Malaria Epidemiology Branch
- Reporting of malaria cases within each State Health Department now more complete because of return facsimile procedure
- Improved timeliness of Malaria Surveillance Summaries published in *MMWR* has given health care workers and public health decision makers access to more up-to-date data

### **Increased Public Awareness about Malaria among Travelers**

Leadership role in investigating and reporting on adverse outcomes among persons with imported malaria in the United States

- Primary author of: Sudden death in a traveler following halofantrine administration – Togo, 2000. *MMWR* 2001;50:169
- Primary author of: Malaria fatalities following inappropriate malaria chemoprophylaxis, United States, 1992-2001. *MMWR* 2001;50:597-599
- Co-author of: Congenital malaria infection due to *Plasmodium falciparum*, North Carolina, September, 2000. *MMWR* 2002;51:164-5
- Invited presentation at Malaria in Travelers Symposium, November 2001 at America Society of Tropical Medicine and Hygiene Meeting, Atlanta, GA: Malaria-Related Deaths among U.S. Travelers, 1963-2001

### **Impact**

- Articles about malaria published in *MMWR* have raised profile of malaria among general public, travelers, and physicians; articles have been picked-up by lay-press (including the Washington Post), and the article about Malaria Fatalities published in *MMWR* has been reprinted in *JAMA*, *Clinical Infectious Diseases*, and *Annals of Emergency Medicine*.

### **Improved CDC Response to Health Care Providers Needing Clinical Malaria Advice**

One of the Malaria Epidemiology Branch staff members responsible for taking clinical calls from U.S. health care providers who have questions about how to treat persons with malaria. LCDR Newman quickly saw the need for a comprehensive guide for all clinicians who answer these often complex clinical calls during work hours and after hours when carrying the malaria beeper. He therefore took the initiative to create a Resource Book for this purpose. This several hundred-page notebook contains information on guidelines for telephone coverage, contacts at State Health Departments and State Public Health Laboratories, key articles on malaria (including the treatment of severe malaria), information on each of the antimalarial drugs licensed for use in the United States, instructions for how to prepare and send malaria specimens (slides and blood), interpretation of laboratory results, dosages and recommended regimens for the treatment and prevention of malaria, and information of malaria prevention for travelers.

- Development and distribution of Resource Book for CDC staff taking clinical malaria calls from public and from physicians

### **Impact**

- 100% of clinical staff in Malaria Epidemiology Branch staff have and use the Resource Book
- Use of Resource Book has resulted in improved quality and consistency of malaria advice given to public and physicians.

**Provided technical backstopping to Ministries of Health, USAID missions, and CDC grant recipients for research, policy development, and program implementation regarding malaria during pregnancy**

- Maternal & Neonatal Health Program, JHPIEGO

- Ministry of Health, Burkina Faso
- Ministry of Health, Ethiopia
- Ministry of Health, Ghana
- Ministry of Health, Madagascar
- Ministry of Health, Malawi
- Ministry of Health, Mali
- Ministry of Health, Mozambique
- Ministry of Health and USAID, Senegal
- University of Washington, Health Alliance International

**DEPLOYMENTS**

New York City	Volunteered for and participated in CDC response team to New York City following terrorist attacks. Worked with team to perform syndromic surveillance at emergency departments. Assisted in dispensing of respirator masks to rescue workers at World Trade Center site, 9/18/01 -- 9/29/01
Atlanta	Emergency Operations Center, CDC, Atlanta. Invited to help coordinate initial efforts to develop a unified methodology and survey instrument to monitor adverse effects associated with post-exposure antibiotic prophylaxis for anthrax. 10/24/01 -- 11/2/01
Philippines	Deployed as team leader of CDC team assisting Department of Health in the Philippines design and conduct surveillance system for SARS 4/28/03 - 5/21/03.
Atlanta	Deployed to co-lead creation of the first ever Commissioned Corps Coordinator desk in the CDC Emergency Operations center following Hurricane Katrina (9/1/05 - 9/14/05)

**INTERNATIONAL TEMPORARY DUTY ASSIGNMENTS**

Tanzania	Supervision of PMI activities, 9/22/07 - 9/28/07
Mozambique	Supervision of PMI activities, 08/04/07 -- 08/13/07
Liberia	Supervision of PMI activities and writing of Malaria Operational Plan, 5/26/07-6/4/07
Uganda	Supervision of PMI activities, 4/27/07 -- 5/5/07
Senegal	Represent CDC in IPTi Executive Committee Investigator Meeting and Executive Committee, 4/10/07 -- 4/14/07
Angola	Supervision of PMI activities, 11/26/06 -- 12/10/07
Rwanda	Supervision of PMI activities and writing of Malaria Operational Plan, 5/13/06 - 5/21/06 and 7/14/06 - 7/30/06

Madagascar	Provide technical assistance to Ministry of Health to design and implement a National Pharmacovigilance System, 1/29/06 -- 2/09/06
Tanzania	Represent CDC in IPTi Executive Committee Investigator Meeting and Executive Committee, 2/4/05 -- 2/9/05
Mozambique	Provide technical assistance to Ministry of Health regarding new policy for prevention of malaria during pregnancy, 12/12/04 -- 12/17/04
Burkina Faso	Training of study team for rapid assessment of burden of malaria during pregnancy, Koupéla district, 5/29/04 -- 6/5/04
Mali	Develop collaborative research agenda with the Malaria Research and Training Center, Bamako, 2/28/04 -- 3/6/04
Kenya	Principal Investigator on Randomized Controlled Trial of Intermittent Preventive Treatment in Infants (IPTi); 2/6/04 -- 2/22/04; 4/12/04 -- 4/23/04; 10/12/04 -- 10/22/04; 02/04/05 -- 02/19/05; 05/09/05 -- 05/20/05; 11/1/05-11/11/05; 5/21/06 - 5/28/06
Spain	Represent CDC in the Intermittent Preventive Treatment in Infants (IPTi) Consortium , 1/17/04 -- 1/29/04; 9/15/04 - 9/21/04
Benin	Represent CDC and an invited speaker at the constitutive meeting of the West African Network against Malaria during pregnancy, 10/8/03 -- 10/10/03
Tanzania	Represent CDC at meetings of the Malaria in Pregnancy Coalition for East and Southern Africa, the Malaria in Pregnancy Working Group of Roll Back Malaria, and the Malaria Action Coalition, 9/27/03 -- 10/7/03
Senegal	Invited speaker at National Consensus meeting about prevention of malaria during pregnancy, 6/24/03 -- 7/2/03
Ghana	Represent CDC on joint trip of Malaria Action Coalition Partners to give technical assistance to the Ghana Ministry of Health regarding malaria during pregnancy, 4/12/03 -- 4/18/03.
United Kingdom	Meet with partners in the Intermittent Preventive Treatment for Infants (IPTi) consortium, of which LCDR is a founding member, 2/4/03 -- 2/8/03.
Tanzania	Attend 3rd MIM Pan African Conference on Malaria. Work with and supervise colleagues from Burkina Faso and Kenya to give oral and poster presentations of collaborative research projects. 11/16/02 -- 11/23/02
Ethiopia	Work with Ministry of Health Officials to carry out retrospective research of malaria during pregnancy during epidemics in 6 sites in Ethiopia. Supervise junior staff person from CDC to carry on research activity. 11/05/02 -- 11/16/02

Malawi	Provide technical assistance to Malawi Ministry of Health to begin a study of prevention of malaria during pregnancy. Supervise junior CDC staff on how to run a study-staff training course. 10/18/02 -- 10/27/02
Senegal	Provide technical assistance to USAID Senegal and the Ministry of Health regarding a pilot intervention in 6 districts with intermittent preventive treatment to prevent malaria during pregnancy 7/30/02 -- 8/03/02
Mozambique	Provide technical assistance to CDC funded malaria project run by University of Washington and the Mozambique Ministry of Health. Meet with Ministry of Health officials. 7/22/02 -- 7/29/02
Zimbabwe Africa.	Meet with WHO to discuss malaria during pregnancy activities in 7/17/02 -- 7/21/02
Brazil	Technical Assistance to the National Malaria Control Program in Brasília regarding Evaluation of Community Health Worker treatment of malaria and urban malaria. Mentoring of junior staff person on urban malaria research project. 6/23/02 -- 6/29/02
Burkina Faso	Supervise data analysis and prepare presentations of results of malaria during pregnancy study. Co-organize and run west African Workshop on Malaria During Pregnancy. 3/16/02 -- 3/23/02
Ethiopia	Work with Ministry of Health on final analysis of malaria during pregnancy study. Prepare presentations for and help organize national meeting of decision makers regarding malaria during pregnancy, 3/11/02 -- 3/16/02
Geneva	Consultant to World Health Organization for the continued development of framework for the monitoring and evaluation of malaria during pregnancy 2/23/02 -- 2/28/02
Spain	Meet with collaborators and formation of a consortium to undertake studies regarding pediatric immunization-linked preventive intermittent treatment for malaria, 2/1/02 -- 2/7/02
Ivory Coast	Present regional work on malaria during pregnancy to regional USAID team in Abidjan, 1/31/02 -- 2/1/02
Burkina Faso	Work with Ministry of Health on data analysis of malaria during pregnancy study, and help to prepare presentations for national meeting held in Ouagadougou, 1/23/02 -- 1/31/02
Kenya	Development of protocol and selection of study sites for a randomized controlled trial to evaluate use of different antimalarials given at routine immunizations for the prevention of severe anemia, 12/3/01 -- 12/14/01
Ethiopia	Data cleaning, data analysis, and report writing for rapid assessment of

	the burden of malaria during pregnancy, 8/19/01 -- 8/31/01
Burkina Faso	Training of study team for rapid assessment of burden of malaria during pregnancy, Koupéla district, 5/27/01 -- 6/9/01
Malawi	Invited speaker at Blantyre Integrated Malaria Initiative meeting on malaria during pregnancy, 5/12/01 -- 5/18/01
Burkina Faso	Protocol development and site visit in preparation for rapid assessment of the burden of malaria during pregnancy, 4/7/01 -- 4/19/01
Ethiopia	Training of study team for ethnographic assessment of knowledge, attitudes, and practices of women regarding malaria during pregnancy and antenatal care, 1/27/01 -- 2/9/01
Geneva, Switzerland	Consultant to World Health Organization for the development of framework for the monitoring and evaluation of malaria during pregnancy, 1/9/01 -- 1/12/01
Ethiopia	Training study team for rapid assessment of the burden of malaria during pregnancy; site visits to all 4 study sites, 10/16/00 -- 11/17/00

**PREVIOUS (NON-PHS) WORK EXPERIENCE**

1998-2000	<b>Country Coordinator--Mozambique, Health Alliance International, Chimoio, Mozambique.</b>
	Coordinate all in-country public health projects for an American non-governmental organization, with a focus on Pediatrics, Child Survival, and Maternal Health. Responsible for the direct supervision of 11 technical staff and total staff of 47. Responsible for liaison with officials from all levels of the Ministry of Health. Responsible for preparation of new project proposals. In-country budget of approximately \$1,000,000 per year.
1996-1998	<b>National Research Service Award Fellow, Division General Pediatrics, Department of Pediatrics, University of Washington, Seattle, Washington.</b>
	Advanced training in general pediatrics and epidemiology. Pursued clinical research projects on varicella vaccine delivery, risk factors for infant gastroenteritis, and delivery of pediatric pharmacy services. Responsible for institution of new pathway for direct-dispensing by pharmacists of over-the-counter medicines for mild illnesses.
1996-1998	<b>Attending Pediatrician, University of Washington and Harborview Medical Center, Seattle, Washington.</b>
	Cared for ethnically diverse refugee population. Precepted residents and medical students.

1995-1998 **Locum Tenens Pediatrician  
Group Health Cooperative  
Seattle, Washington**

Provided outpatient and inpatient pediatric care in a *locum tenens* capacity.

1993-1996 **Pediatric Internship and Residency,  
Children's Hospital and Medical Center  
University of Washington, Seattle, Washington**

10/95-11/95 **Consultant, Health Alliance International, Chimoio, Mozambique.**

Investigated satisfaction with ambulatory health care services in Mozambique.

3/95-4/95 **Pediatric Residency Emergency Room Rotation, Yukon Kuskokwim Delta  
Hospital, Bethel, AK.**

7/90-7/91 **Co-investigator, Epidemiology of Cryptosporidiosis, Fortaleza, Brazil**

Principal field investigator for longitudinal cohort study. Responsible for field surveillance, laboratory diagnostics, data entry, analysis, scientific presentations and manuscript preparation.(continued: 2/92-4/92, 3/93-5/93, 7/97-8/97)

**PHS AWARDS**

Outstanding Service Medal	2008
Outstanding Unit Citation	2007
Outstanding Unit Citation	2007
Crisis Response Service Award	2006
Special Assignment Award	2006
Citation	2006
Regular Corps Ribbon	2006
Outstanding Unit Citation	2005
Foreign Duty Award	2005
Foreign Duty Award	2004
Achievement Medal	2004
Citation	2004
Achievement Medal	2003
Commissioned Corps Training Ribbon	2003
Crisis Response Service Award	2002
Foreign Duty Award	2002
Commendation Medal	2002
Outstanding Unit Citation	2002
Foreign Duty Award	2001

**NON-PHS HONORS/AWARDS**

James H. Nakano Citation	2007
Secretary's Award for Distinguished Service	2006
Donald F. Hagen Young Physician Award (AMSUS)	2003
Paul C. Schnitker Award for Global Public Health	2002
Physician Recognition Award (AMA)	2002

National Research Service Award (NRSA)	1996 - 1998
APA - Immunization Special Projects Award	1997
Alpha Omega Alpha Medical Society	1993
Dean's Office Research Stipend	1990 - 1991
Phi Beta Kappa (President)	1988
<i>Magna cum Laude</i>	1988
Graduation with Honors in English	1988
Arthur C. Kaufman Prize for Excellence in English	1988
Class of 1960 scholar in English	1987

**PHS SUPPORT ACTIVITIES**

CCRF/OFRD - member, deployment ready	2003 - present
Physician Professional Advisory Committee (PPAC) (Appointed voting member 2005; Re-appointed for 2008-2010 term)	2003 - present
Chair, Compensation Subcommittee, PPAC	2007 -- present
Junior Officer Advisory Group (JOAG) (Appointed voting member)	2003 - 2005
Basic Officer Training Course	2003
Independent Officer Training Course	2003
Reserve Officer's Association (ROA)	2003 - present
American Military Surgeons of the United States	2003 - present
Volunteer, COA assistance to USO at ATL Airport	2002
Official Officer Escort for VADM David Satcher	2001
Commissioned Officer's Association	2000 - present

**CONTINUING EDUCATION (see training summary in eOPF for details)**

- Epidemic Intelligence Service Summer Course, 7/5/00 - 7/28/00
- SAS fundamentals, 8/00
- Epidemiology Grand Rounds Conferences, CDC, 7/00 - present
- Intermediate French, CDC, 9/00 - 9/02
- Basic Lifesaving Course, 6/20/01
- Communicating with Hostile Audiences, 7/02
- Pediatrics Review and Education Program, 12/02
- Basic Officer Training Course, 1/03
- Independent Officer Training Course, 4/03
- Basic Lifesaving Course, 7/03
- Leadership 360 Course, 7/03
- CCRF Modules; 25 modules + 4 FEMA modules completed as of 12/06
- AMSUS Conference, 11/03
- American Society of Tropical Medicine & Hygiene Conference, 12/03
- Good Clinical Practices (GCP), 1/26/04-1/27/04
- COA Conference, 5/04
- American Society of Tropical Medicine & Hygiene Conference, 12/04
- COA Conference, 6/05
- Strategic Public Leadership, 7/05 - 8/05
- Basic Lifesaving Course, 7/05
- Leadership and Management Institute, 10/05-08/06 (certificate)
- American Society of Tropical Medicine & Hygiene Conference, 12/05
- Pediatrics Review and Education Program, 12/05
- NO FEAR Act - Diversity Training, 10/06
- American Society of Tropical Medicine & Hygiene Conference, 11/06

- FEMA Education Modules (IS-00100, IS-002000, IS-00700, IS-00800.A), 12/06
- Basic Lifesaving Course, 7/07
- Counter Intelligence and Foreign Travel Safety Briefing, 7/07
- Safety Survival Skills, 11/07
- Influenza: Intervals, Triggers, Actions, a tabletop exercise, 11/07
- American Society of Tropical Medicine & Hygiene Conference, 11/07
- Pediatrics Review and Education Program, 12/07

**SPECIAL SKILLS**

- Fluent in Portuguese (reading-excellent; speaking-excellent; writing-good)
- Proficient in French (reading-excellent; speaking-good; writing-fair)
- Basic Spanish (reading-good; speaking-fair; writing-poor)
- Management (administrative, fiscal, personnel, logistical) and supervisory skills
- PADI-certified open water SCUBA diver
- Knowledge of MS Word, MS PowerPoint, MS Excel, STATA, SAS, SPSS, Epi-Info

**PROFESSIONAL ASSOCIATIONS**

**Organizations**

Physicians for Social Responsibility/Baltimore	1998 - 1993
American Academy of Pediatrics	1993 - 2001
Ambulatory Pediatric Association	1996 - 2001
Member, International Health Section	
Selection Committee, International Research Award	
American Public Health Association	1996 - 1999
Commissioned Officer's Association	2000 - present
American Society of Tropical Medicine and Hygiene	2001 - present
Reserve Officer's Association (ROA)	2003 - present
American Military Surgeons of the United States	2003 - present

**Committees**

Residency Steering Committee, Children's Hospital and Medical Center, Seattle, WA	1993 - 1998
Chairman, Ambulatory Pediatric Association	1998
International Health Award Selection Committee	
Admissions Committee, International Health Program, University of Washington School of Public Health and Community Medicine	1998

**OTHER DUTIES AND ACTIVITIES**

**Teaching**

- Instructor for Parasitology Course, Division of Parasitic Diseases, CDC, Atlanta, GA, August, 2001, August, 2002, August 2003, August 2004, August 2006
- Invited speaker, WHO Short Course on Malaria, Nazareth, Ethiopia, October, 2000
- Invited speaker, STOP Team training courses, Atlanta, May & September 2002
- Thesis advisor for Emory University Rollins School of Public Health Students
- Adjunct Associate Professor, Department of Health Services, University of Washington School of Public Health & Community Medicine (1998 - present)

**CDC**

- Member of team that prepared, wrote, and reviewed applications for a request for assistance (RFA) for malaria prevention proposals for sub-Saharan Africa
- Appointed Voting Member, CDC Institutional Review Board (IRB) (2004-2006)
- Head, Search Committee, Director for CDC-Kisumu Field Station
- Lead, Workgroup on Global Staffing in CDC Country Offices without an appointed Country Director

**Manuscript reviewing**

- *Acta Tropica*
- *AIDS*
- *American Journal of Tropical Medicine and Hygiene*
- *Annals of Internal Medicine*
- *Annals of Tropical Medicine and Parasitology*
- *Archives of Pediatrics and Adolescent Medicine*
- *Clinical Infectious Diseases*
- *Clinical Microbiology Reviews*
- *Emerging Infectious Diseases*
- *Journal of Infectious Diseases*
- *Lancet*
- *Lancet Infectious Diseases*
- *Pediatric Infectious Disease Journal*
- *Tropical Medicine and International Health*

**Clinical medicine**

- Weekly volunteer as a pediatrician at Mercy Mobile Health Services clinic in Atlanta, serving underserved population

**Mentoring**

- Provide career counseling for pediatric residents at the University of Washington interested in public health or international health
- Mentor, Mercy Mobile Health Services, 2004-present
- Advisor, Emory University Rollins School of Public Health; primary thesis advisor for MPH students

**PEER-REVIEWED PUBLICATIONS**

- 1 Redacted. Infection and Immunity 1992.
- 2 Redacted. Journal of Clinical Microbiology 1993
- 3 Redacted. American Journal of Tropical Medicine and Hygiene 1993
- 4 Redacted. Annals of Internal Medicine 1994
- 5 Redacted. Journal of Infectious Diseases 1994
- 6 Redacted. American Journal of Tropical Medicine and Hygiene 1996
- 7 Redacted. Journal of Infectious Diseases 1998
- 8 Redacted. Pediatric Emergency Care 1998
- 9 Redacted. Health Policy and Planning 1998
- 10 Redacted. Pediatric Emergency Care 1998
- 11 Redacted. Archives of Pediatrics and Adolescent Medicine 1998
- 12 Redacted. Pediatrics 1999
- 13 Redacted. Journal of Infectious Diseases 1999;180:167-175.
- 14 Redacted. Archives of Pediatrics and Adolescent Medicine 1999
- 15 Redacted. Pediatric Emergency Care 1999
- 16 Redacted. Revista Médica de Moçambique 1999;7: 23-27
- 17 Redacted. JAMA 1999
- 18 Redacted. Archives of Pediatrics and Adolescent Medicine 2000
- 19 Redacted. Journal of Infectious Diseases 2000
- 20 Redacted. International Journal of Occupational and Environmental Health 2000
- 21 Redacted. Tropical Medicine and International Health 2001
- 22 Redacted. International Journal of STD and AIDS 2001
- 23 Redacted. Emerging Infectious Diseases 2002;8:1124-1132.
- 24 Redacted. Tropical Medicine and International Health 2003
- 25 Redacted. AIDS 2003

26. Redacted. Emerging Infectious Diseases 2004
27. Redacted. Journal of Infectious Diseases 2003
28. Redacted. Clinical Infectious Diseases 2003
29. Redacted. Annals of Internal Medicine 2004
30. Redacted. American Journal of Tropical Medicine and Hygiene 2004
31. Redacted. American Journal of Tropical Medicine and Hygiene 2004
32. Clinical Infectious Diseases 2004
33. Redacted. Journal of Infectious Diseases 2005
34. Redacted. Tropical Medicine and International Health. In press.
35. Redacted. American Journal of Tropical Medicine and Hygiene 2006
36. Redacted. Journal of Infectious Diseases 2006
37. Redacted. American Journal of Tropical Medicine and Hygiene. 2006
38. Redacted. Transactions of the Royal Society of Tropical Medicine 2007
39. Redacted. Drug Safety 2007
40. Redacted. Archives of Pediatrics and Adolescent Medicine 2007
41. Redacted. Lancet Infectious Diseases 2007
42. Redacted. Current Opinions in Infectious Diseases 2007
43. Redacted. Submitted.
44. Redacted. Submitted.
45. Redacted. Submitted.
46. Redacted. Manuscript in preparation.
47. Redacted. Submitted.
48. Redacted. Manuscript in preparation.
49. Redacted. Manuscript in Preparation.
50. Redacted. Manuscript in Preparation.

**LETTERS and REVIEWS**

1. Redacted. Archives of Pediatrics and Adolescent Medicine 2000
2. Redacted. New England Journal of Medicine 2001;344:934.

#### GOVERNMENT PUBLICATIONS

1. Sudden death in a traveler following halofantrine administration – Togo, 2000. MMWR 2001;50:169. Redacted.
2. Malaria fatalities following inappropriate malaria chemoprophylaxis, United States, 1992-2001. MMWR 2001;50:597-599. Redacted.
3. Congenital malaria as a result of *Plasmodium malariae*, North Carolina, 2000. MMWR 2002 Redacted.
4. Redacted. MMWR 2001
5. Redacted. MMWR 2001
6. Redacted. MMWR 2002
7. Redacted. MMWR 2002
8. Redacted. MMWR 2003
9. Malaria. In: *Health Information for International Travel*, 2003-2004. Atlanta: DHHS, Centers for Disease Control, 2003. Redacted.
10. Redacted. MMWR 2005
11. Redacted. MMWR 2005
12. Redacted. Malaria Surveillance -- United States, 2004. MMWR Submitted.
13. Redacted. MMWR 2007

#### OTHER PUBLICATIONS

1. Redacted. In: *Shaping Policy for Maternal and Newborn Health: A Compendium of Case Studies*. Baltimore: JHIPIEGO Corporation, 2003.

#### INVITED PRESENTATIONS AND SYMPOSIA

1. Epidemiology of Malaria in Pregnancy. CORE group, annual meeting, Washington, DC, September, 2000
2. Malaria mortality associated with travel. American Society of Tropical Medicine and Hygiene, Atlanta, Georgia, November, 2001.
3. Malaria during Pregnancy. Williams College, January 2002.
4. Malaria during Pregnancy: From data to policy in Africa. Johns Hopkins Tropical

- Medicine Society, Baltimore, December 2002.
5. Redacted. Prevention of Malaria during Pregnancy. World Health Organization, March 2003
  6. L'épidémiologie et la prévention du paludisme pendant la grossesse. National consensus meeting on prevention of malaria during pregnancy, Dakar, Senegal, June, 2003
  7. Prevention of Malaria during pregnancy: state of the art and future directions, Annual meeting of the malaria in Pregnancy Coalition for East and Southern Africa (MIPESA), Dar-es-Salaam, Tanzania, September 2003
  8. La prévention du paludisme pendant la grossesse: L'évidence pour les stratégies actuelles et les directions futures. West Africa Network for the Prevention of Malaria during Pregnancy, Cotonou, Benin, October, 2003
  9. Intermittent Preventive Treatment in Infants (IPTi) – the Research Agenda. American Society of Tropical Medicine and Hygiene Annual Meeting, Philadelphia, December 2003
  10. Malaria control efforts and their impact on pregnancy outcomes. International Conference on Women & Infectious Disease, Atlanta, February, 2004
  11. Prevention of malaria during pregnancy: data driven best practices. White Ribbon Alliance, Washington, DC, December 2004
  12. Safety of antimalarial drugs during pregnancy. Consensus meeting on malaria control during pregnancy, Maputo, Mozambique, December, 2004
  13. Malaria during pregnancy: from data to policy in Africa. Public Health Professional Conference, Philadelphia, PA, June, 2005
  14. Antimalarial chemoprophylaxis during pregnancy, lactation, and infancy. American Society of Tropical Medicine and Hygiene Pre-meeting Course, Washington, DC, December 2005
  15. Adverse Effects of antimalarials. Madagascar National Workshop on Pharmacovigilance. Antananrivo, February 2006.
  16. Update from the Intermittent Preventive Treatment in Infants (IPTi) Consortium: Pooled evidence on the safety and efficacy of IPTi with sulfadoxine-pyrimethamine and implications for policy change and program implementation. American Society of Tropical Medicine and Hygiene Annual Meeting, Atlanta, GA, November, 2006 (Symposium organizer and moderator)
  17. Update from the Intermittent Preventive Treatment in Infants (IPTi) Consortium: Status of policy change and program implementation and the efficacy of sulfadoxine-pyrimethamine and other antimalarial drugs. American Society of Tropical Medicine and Hygiene Annual Meeting, Philadelphia, PA, November, 2007 (Symposium organizer and moderator)

#### SCIENTIFIC ABSTRACT PRESENTATIONS

1. Redacted. American Society of Tropical Medicine and Hygiene, Boston, Massachusetts, December, 1991.
2. Redacted. American Society of Tropical Medicine and Hygiene, Seattle, Washington, November 1992.
3. Redacted. American Society of Tropical Medicine and Hygiene, Seattle, Washington, November 1992.
4. Redacted. American Society for Microbiology, Atlanta, Georgia, May 1993.
5. Redacted. Client satisfaction with outpatient healthcare services in Manica Province, Mozambique. Western APA, Carmel, California, February, 1997.
6. Redacted. The voices of children in literature: A workshop. Western APA, Carmel, California, February, 1997.
7. Redacted. Parental satisfaction with pediatric outpatient healthcare services in Manica Province, Mozambique. APA, International Health Section, Washington, D.C., May, 1997.
8. Redacted. Washington State Joint Conf. on Health. Wenatchee, WA, October, 1997.
9. Redacted. Western Ambulatory Pediatric Association, Carmel ,CA, February, 1998.
10. Redacted. Ambulatory Pediatric Association, New Orleans, LA, May, 1998.
11. Redacted. Ambulatory Pediatric Association, New Orleans, LA, May, 1998.
12. Redacted. EIS Conference, Centers for Disease Control and Prevention, Atlanta, GA, April, 2001
13. Redacted. American Society of Tropical Medicine and Hygiene, Atlanta, GA, November, 2001.
14. Redacted. EIS Conference, Centers for Disease Control and Prevention, Atlanta, GA, April, 2002
15. Redacted. Public Health Professional Conference, Anchorage, AK, May, 2004

**SELECTED OTHER SCIENTIFIC ABSTRACTS (Complete list available on request)**

1. Redacted. International Conference on AIDS/STDs in Africa. Lusaka, Zambia, September, 1999.
2. Redacted. International Conference on HIV/AIDS. Durban, South Africa, June, 2000
3. Redacted. AIDS Vaccine 2001, Philadelphia PA, September, 2001.

4. Redacted. American Public Health Association Annual Meeting, Atlanta, GA, October, 2001.
5. Redacted. Submitted to the 3<sup>rd</sup> MIM Pan-African Malaria Conference, Arusha, Tanzania, November, 2002.
6. Redacted. 3<sup>rd</sup> MIM Pan-African Malaria Conference, Arusha, Tanzania, November, 2002.
7. Redacted. 3<sup>rd</sup> MIM Pan-African Malaria Conference, Arusha, Tanzania, November, 2002.
8. Redacted. 3<sup>rd</sup> MIM Pan-African Malaria Conference, Arusha, Tanzania, November, 2002.
9. Redacted. MEEGID meeting, Barcelona, 2002.
10. Redacted. American Society of Tropical Medicine and Hygiene Annual Meeting, Philadelphia, December 2003.
11. Redacted. American Society of Tropical Medicine and Hygiene Annual Meeting, Miami, December 2004.