

*CURRICULUM VITAE – SUMMARY PAGE*  
**CDR Edward Smith, MD, Medical Category, PHS No.**

**PRECEPT #1: PERFORMANCE**

- Consistently exceptional ratings on all COER elements
- Successfully promoted to T-O5 during the PY11 promotion cycle.
- Successfully promoted to P-O4 during the PY10 promotion cycle.
- Recipient of the PPAC Physician of the Year Award
- Nominated for Extraordinary Proficiency Promotion at the Agency level (2009)
- Commissioned Corps (CC) honor awards include Outstanding Unit Citation (2011 (2), 2010 (2), 2008), Commendation Medal (2008), Achievement Medal (2010), Unit Commendation (2011), PHS Citation (2009). Service awards include Global Response Service Award (2010), Response Service Award (2009) and Foreign Duty Service Award (2009); additionally awarded the Field Medical Readiness Badge (2009). Multiple non-CC awards for outstanding performance and leadership, scholarship in pediatric research and care.
- Supports the USPHS CC by working to reduce the burden of foodborne illness in the United States by providing regulators with information for action, to stem antimicrobial resistance through promotion of the appropriate antibiotics use and to advance scientific knowledge of foodborne disease epidemiology
- Serves as Principal Investigator of several multi-year studies in Russia, the Caucasus and Central Asia; organized epidemiologic training courses attended by representatives from 10 former Soviet Republics
- Serve as co-investigator for botulism antitoxin and multiple investigational vaccine protocols.
- Member of the Steering Committee of the WHO *Global Foodborne Infections Network*, a multinational collaboration whose objective it to enhance the capacity of countries to detect, respond, and prevent foodborne and other enteric diseases
- Internationally recognized expert consultant on matters of food safety and antimicrobial resistance, having provided consultation to WHO, HHS, FDA, USDA, state and other agencies and assists in developing policy for HHS and CDC including HP2020 targets for antimicrobial resistance
- First author of multiple peer-reviewed manuscripts, published abstracts for international conferences, technical documents, and book chapters
- Conducts, evaluates and reports national public health surveillance for enteric diseases and antimicrobial resistance, supervises and conducts epidemiologic studies with team resulting in 37 published manuscripts and 47 presentations at national and international meetings

**PRECEPT #2: EDUCATION, TRAINING, AND PROFESSIONAL DEVELOPMENT**

- Completed training as an Epidemic Intelligence Service Officer at CDC, 2004-2006
- Appointed Clinical Instructor, Emory University School of Medicine
- Maintain clinical privileges as Staff Physician, Children's Healthcare of Atlanta and Grady Hospital
- Maintain Board Certification in Pediatrics since 2005 and active Georgia state medical license
- Pediatric Residency (2001-2004)
- Doctor of Medicine (MD, 2001); Bachelors of Science (B. Sc. in Biochemistry 1995)
- Continuing Medical Education: > 100 Hours CME for 2008-2010
- Maintain current PALS, BLS certifications
- Demonstrated ability to design, execute, manage, analyze, present, and write-up scientific studies
- Excellent writing skills – 37 published peer-reviewed manuscripts and government reports to date
- Outstanding interpersonal and diplomatic skills developed during many years of work in international settings; meet with Ministers, Chiefs of Mission, and other senior politicians

**PRECEPT#3: CAREER PROGRESSION AND POTENTIAL**

- Assignments show progression, programmatic and geographic mobility: advanced from trainee (EIS), to staff epidemiologist, to leader of a major branch program (lead epidemiologist of the National Antimicrobial Resistance Monitoring System) to Team Leader (National Surveillance Team), Deputy Incident Manager and Senior Scientist (XX Office)
- Serving in Supervisory O-6 billet since October 2009
  - Supervise on-site epidemiologic investigations of public health problems; supervise the design, initiation, coordination and conduct of epidemiologic research including the writing of protocols and the collection, management, analysis, and interpretation of data
- Open to geographic and programmatic mobility, as demonstrated by involvement in OFRD deployment (January '09), TDYs (multiple), changing programs (Bacterial Zoonoses to Enteric Diseases in August '07, to XX Office in February '11), and positions (Medical Epidemiologist to Team Leader in September '09, Lead epidemiologist in February '11)
- Served as Deputy Incident Manager for the agency's response to the Haiti Cholera outbreak during the activation of the CDC Emergency Operations Center (January – April 2011)
- Lead the Outbreak Response efforts during deployment to Haiti (October '10); instrumental in setting up the country's National Monitoring System and served as surveillance SME.
- Lead the Public Health Response for the post-earthquake relief efforts during deployment to Haiti (April '10); essential contributions in disease surveillance among internally displaced populations
- Several international temporary duty assignments for global prevention of foodborne diseases (Armenia, Republic of Georgia, Russia, Kazakhstan, Kyrgyzstan, Guatemala, Kenya, Madagascar)
- Served as consultant to WHO Advisory Group for Integrated Surveillance of Antimicrobial Resistance (WHO-AGISAR) on antimicrobial resistance issues,
- Served as expert trainer & steering committee member to WHO Global Foodborne Infections Network (WHO-GFN) on laboratory-based surveillance issues; invited speaker for international meetings
- Served as staff epidemiologist for the WHO Collaborating Centre for Surveillance, Epidemiology and Control of Salmonella and other Foodborne Diseases based at CDC
- Applied for assimilation to the Regular Corps in December 2009

**PRECEPT#4: PROFESSIONAL CONTRIBUTIONS AND SERVICE TO PHS**

- Served term as appointed member, Awards Board;
- Chaired Awards Board
- Executive Committee member; Chair, Communications Subcommittee, Atlanta Commissioned Officers' Association (ACOA)
- Member, Physician Professional Advisory Committee (PPAC), Career Development & Training Subcommittee; Medical Category Career Mentor and Recruitment Ambassador
- Appointed Member, PHS Ensemble
- Participated and gave oral presentation on "Partnerships to Improve Public Health: United States Botulism Emergency Response and Antitoxin Release Service" at the 2009 USPHS Scientific & Training Symposium and "Lessons Learned from Haiti" at the 2011 USPHS Scientific & Training Symposium
- Basic readiness qualified (2006-present) and member of the OFRD Tier-3 roster
- Wear uniform daily, appropriately, with pride and distinction during routine work and while in attendance at national meetings, always keeping decorations current and advise others on same

**PRECEPT#5: RESPONSE READINESS**

- Awarded the Field Medical Readiness Badge (2009)
- Uninterrupted record of having met and maintained OFRD Readiness Standards since 2006

***CURRICULUM VITAE***  
**CDR Edward Smith, M.D.**  
**Lead Epidemiologist, XX Office**  
**Center for Global health**  
**Centers for Disease Control and Prevention**

*Work address:* 1600 Clifton Road NE, MS: A-05, Atlanta, GA 30333

*Phone:*

*E-mail:*

*Supervisor:* CAPT

*Phone:*

*E-mail:*

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PRECEPT #1: PERFORMANCE

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PHS AWARDS

**USPHS Recognitions, Honor Awards, and Service Awards**

- PPAC Physician of the Year Award in recognition of excellence in epidemiology and leadership resulting in significant contributions to public health (2011)
- Unit Commendation for outstanding support of the Commissioned Corps objectives of visibility, recruitment, professional development and service (ACOA Executive Committee, 2011)
- Outstanding Unit Citation in recognition of rapid and significant relief to citizens of Haiti & mitigation of the medical and public health impact following the earthquake (2011)
- Outstanding Unit Citation in recognition of exemplary collaborative performance to provide public health support of the US Botulism Treatment Program (2011)
- Global Response Service Award in recognition of response to a January 12, 2010 catastrophic 7.0 magnitude earthquake in Haiti (2010)
- Outstanding Unit Citation for investigation and successful resolution of a multistate outbreak of *Salmonella* Typhimurium infections linked to contaminated peanut butter and peanut-containing products (2010)
- Outstanding Unit Citation for superior performance in the nationwide, epidemiologic investigation of a *Salmonella* contamination of multiple raw product (2010)
- Outstanding Unit Citation for CDC's early and effective response to Pandemic H1N1 (2010)
- Nominated by CCID for Extraordinary Proficiency Promotion to T-O5 at Agency Level (2009)
- Achievement Medal for exemplary service as Acting Team Lead of the National Surveillance Team of the Enteric Diseases Epidemiology Branch (2009)
- PHS Citation for superior performance during a public health crisis (2009)
- Commendation Medal for exemplary accomplishments with the World Health Organization's (WHO) Global Salmonella Surveillance program (2008)
- Outstanding Unit Citation for superior performance in the multi-state, epidemiologic investigation of a botulism contamination of a commercially-canned chili product (2008)
- Foreign Duty Service Award (2009)
- Response Service Award: "Belcourt Physician Shortage Mission" (2009)
- Field Medical Readiness Badge (2009)
- Commissioned Corps Training Ribbon (2006)

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 NON-PHS HONORS & AWARDS
 

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**Centers for Disease Control and Prevention**

- CDC's Excellence in Emergency Response Award for significant contributions toward a successful response to a public health emergency that involves overcoming challenging circumstances (2011)
- CDC's National Center for Emerging & Zoonotic Infectious Diseases Honor Award Certificate for outstanding response to the outbreak of cholera in Haiti: saving lives and controlling the spread of disease (2011)
- The Surgeon General's Certificate of Appreciation for continued excellence in service as a member of the Public Health Service Ensemble (2011)
- CDC's National Center for Emerging & Zoonotic Infectious Diseases Honor Award Certificate for excellent service chairing the center's PHS awards board (2010)
- Centers for Disease Control and Prevention Certification of Appreciation for participation and contributions to the success of CDC's 2009 Novel Influenza A (H1N1) Response (2009)
- World Health Organization, PneumoADIP and HibInitiative recognition for participation in the Hib and Strep Pneumo Global Disease Burden Project (2008)
- Coordinating Office for Global Health "Silobuster" for Collaborative Success and Exemplary teamwork to strengthen Field Epidemiology Training Programs around the world (2008)
- National center for Zoonotic, Vectorborne & Enteric Diseases Excellence in Public Health Science Award for Activities that have had a positive impact on the health of populations on a local, regional, national and international level (2008)
- National Center for Infectious Diseases Honor Award for outstanding contributions in public health protection research, and involvement with the Safe Water System Research Team (2006)
- National Center for Infectious Diseases Honor Award for outstanding service as an EIS Officer (2004)

**Tufts University & Tufts University School of Medicine**

- Boston International Foundation For Medical Education Award for the promotion of international health in Lambaréné, Gabon (2001)
- Te-Wen Chang Travel Scholarship, for providing continuing medical education to medical staff at the Albert Schweitzer Hospital in Gabon (1999)
- Presidential Award For Citizenship And Public Service, for co-founding the "Sharewood Project", the first student-run, free clinic in Boston, MA (1999)
- Healthcare Foundation of New Jersey Humanism in Medicine Award for my role as one of the student founders of the "Sharewood Project" the establishment of which epitomizes the highest standard of compassion and sensitivity to the needs of patients (1999)
- *Phi Beta Kappa*, Delta Chapter of Massachusetts at Tufts University (1995)
- Max Tishler Prize in Research Scholarship (1994)
- Golden Key National Honor Society (1994)

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 PUBLICATIONS & CONTRIBUTIONS TO THE AGENCY MISSIONS
 

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*PEER-REVIEWED JOURNALS*

18. **Authors list.** (2011) Setting up a National Cholera Surveillance System during a Large-Scale Epidemic, Haiti 2010-11. *The Lancet. At the Journal.*
17. **Authors list.** (2011) Typhoid Fever Outbreak Associated with Exposure to Frozen Mamey Pulp from Guatemala – Southwestern United States, 2010. *Lancet Infectious Diseases. At the Journal*
16. **Authors, et al,** for the Salmonella Saintpaul Outbreak Investigation Team. (2011) 2008 Outbreak of Salmonella Saintpaul Infections Associated with Raw Produce. *New England Journal of Medicine. E-pub ahead of print: DOI: 10.1056/nejmoa1005741.*

15. Authors. (2011) Ciprofloxacin-Resistant *Salmonella enterica* Serotype Typhi Isolates in the United States, 1999–2008. *EID*. **17** (6), 1095-1098
14. **Authors.** (2010) Diarrhea prevention in people living with HIV/AIDS: an evaluation of a point of use water quality intervention in Lagos, Nigeria. *AIDS Care*. **23** (3), 330-339.
13. Authors. (2010) Emerging Infections Program NARMS Working Group. Antimicrobial resistance among invasive nontyphoidal *Salmonella enterica* in the United States, National Antimicrobial Resistance Monitoring System, 1996-2007. *Antimicrobial Agents and Chemotherapy*. **55** (3), 1148-1154.
12. Authors. Commensal *Escherichia coli* Isolate Resistant to Eight Classes of Antimicrobial Agents in the United States. *Foodborne Pathogens and Disease*. *E-pub ahead of print: DOI: 10.1089=fpd.2010.0619*
11. Authors. (2010) Reduced azithromycin susceptibility in *Shigella sonnei*, United States. *Microbial Drug Resistance*. **16** (4):245-8
10. Authors. (2010) *Salmonella* Isolates with Decreased Susceptibility to Extended-Spectrum Cephalosporins in the United States. *Foodborne Pathogens and Disease*. **7** (12):1503-9
9. Authors. (2010) Microbiological And Clinical Features Of *Salmonella* Species Isolated From Bacteremic Children In Eastern Democratic Republic Of Congo. *Pediatric Infectious Diseases Journal*. **29** (6):504-510
8. Authors (2009) Identification of the Aminoglycoside Resistance Determinants *armA* and *rmtC* among Non-Typhi *Salmonella* Isolates from Humans in the United States. *Antimicrobial Agents and Chemotherapy*. **53** (10):4563-4564
7. Authors. (2009) Typhoid Fever in the United States, 1999-2006. *Journal of the American Medical Association*. **302** (8):859-865
6. Novel Influenza A (H1N1) Pregnancy Working Group. (2009) H1N1 2009 influenza virus infection during pregnancy in the USA. *The Lancet*. **374** (9688):451-458
5. Novel Swine-Origin Influenza A (H1N1) Virus Investigation Team. (2009) Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans. *New England Journal of Medicine*. **360** (25):2605-2615
4. Authors. (2008) Risk Factors and Delayed Effects of Botulism in the Republic of Armenia. *The New Armenian Medical Journal*. **2** (2):77-78
3. Authors. (2008) Norovirus outbreak among river rafters associated with packaged delicatessen meat, Grand Canyon, 2005. *Clinical Infectious Diseases*. **14** (12):1957-1959
2. Authors. (2008) Human *Salmonella* Infection Yielding CTX-M  $\beta$ -Lactamase, United States. *Emerging Infectious Diseases*. **14** (12):1957-1959
1. **Authors.** (2006) Could a single dose of Pneumococcal Conjugate Vaccine in Children be Effective?: Modeling the Optimal Age of Vaccination. *Vaccine*. **24** (7): 894-903

#### GOVERNMENT AND NON-PEER-REVIEWED JOURNALS

21. Centers for Disease Control and Prevention. Update: Cholera Outbreak — Haiti, 2010. (2010) Morbidity and Mortality *Weekly Report (MMWR)*. December 24; 59 (50): 1637-1641
20. Centers for Disease Control and Prevention. Update: Cholera Outbreak — Haiti, 2010. (2010) Morbidity and Mortality *Weekly Report (MMWR)*. November 5; 59 (48): 1586-1590
19. Centers for Disease Control and Prevention. Update: Cholera Outbreak — Haiti, 2010. (2010) Morbidity and Mortality *Weekly Report (MMWR)*. November 5; 59 (45): 1473-1479
18. Centers for Disease Control and Prevention. Cholera Outbreak — Haiti, 2010. (2010) Morbidity and Mortality *Weekly Report (MMWR)*. November 5; 59 (43): 1411
17. Food and Drug Administration, Centers for Disease Control and Prevention, and U.S. Department of Agriculture. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Executive Summary Report, 2008. Laurel, Maryland: U.S. Department of Health and Human Services, FDA, 2009.

16. Centers for Disease Control and Prevention. Notes from the Field: *Vibrio mimicus* Infection from Consuming Crayfish — Spokane, Washington, June 2010. (2010) *Morbidity and Mortality Weekly Report (MMWR)*. October 29; 59 (42): 1374
15. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2008. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2010.
14. Centers for Disease Control and Prevention. Launching a National Surveillance System after an Earthquake — Haiti, 2010. (2010) *Morbidity and Mortality Weekly Report (MMWR)*. August 6; 59 (30): 939-945
13. Centers for Disease Control and Prevention. Launching a National Surveillance System after an Earthquake — Haiti, 2010. (2010) *Morbidity and Mortality Weekly Report (MMWR)*. August 6; 59 (30): 933-938
12. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2008. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2010.
11. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2007. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2010.
10. Food and Drug Administration, Centers for Disease Control and Prevention, and U.S. Department of Agriculture. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Executive Summary Report, 2006. Laurel, Maryland: U.S. Department of Health and Human Services, FDA, 2009.
9. Centers for Disease Control and Prevention. Novel Influenza A (H1N1) Virus Infections in Three Pregnant Women — United States, April – May 2009. (2009) *Morbidity and Mortality Weekly Report (MMWR)*. May 12; 58 (18): 497-500
8. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2006. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2009.
7. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2005. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2008.
6. Food and Drug Administration, Centers for Disease Control and Prevention, and U.S. Department of Agriculture. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Executive Summary Report, 2005. Laurel, Maryland: U.S. Department of Health and Human Services, FDA, 2008.
5. Centers for Disease Control and Prevention. Botulism Associated with Commercially Canned Chili Sauce — Texas and Indiana, July 2007. (2007) *Morbidity and Mortality Weekly Report (MMWR)*. August 03; 56 (30): 767-769
4. Food and Drug Administration, Centers for Disease Control and Prevention, and U.S. Department of Agriculture. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Executive Summary Report, 2004. Laurel, Maryland: U.S. Department of Health and Human Services, FDA, 2008.
3. Centers for Disease Control and Prevention. Botulism Associated with Commercially Canned Chili Sauce — Texas and Indiana, July 2007. (2007) *Morbidity and Mortality Weekly Report (MMWR)*. August 03; 56 (30): 767-769
2. Centers for Disease Control and Prevention. National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS): Human Isolates Final Report, 2004. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2007.

1. Centers for Disease Control and Prevention, primary author **Barzilay E.J.** Preliminary FoodNet Data on the Incidence of Infection with Pathogens Transmitted Commonly Through Food – 10 Sites, United States, 2005. (2006) *Morbidity and Mortality Weekly Report (MMWR)*. April 14; 55 (14): 392-395

#### BOOK CHAPTERS

- 2.. Helicobacter Pylori. In: Brunette G.W, Kozarsky, P.E., Magill, A.J., Smith D.R.(eds.) *CDC Health Information for International Travel 2012 and 2010*. Mosby Elsevier (2011, 2009).
- 1.. Botulism and Intestinal Botulism. In: Heymann, D.L., (ed.) *Control of Communicable Diseases Manual, 19<sup>th</sup> Edition*. American Public Health Association; 2008.

#### TEACHING MATERIALS

- . “Adventures in Microsoft Access”, “Database Management”, “Incoming EISO Computer Training”, “Botulism: A Suite in three movements”, and “JUMP! An Introduction to Exploratory Analysis Using JMP”

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#### PRESENTATIONS

##### ORAL PRESENTATIONS

##### *Scientific Presentations at National Conferences*

- “Sustaining Surveillance and Rebuilding National Public Health Laboratory Capacity in Haiti; Cholera: A Test Case” *Vibrio in the Environment, Biloxi, MS, November 2010*
- “Trends in *Vibrio* Infections” *2010 International Conference on Emerging Infectious Diseases, Atlanta, GA, July 2010*
- “Trends in Erythromycin and Ciprofloxacin Resistance in *Campylobacter*, United States, 1997-2008.” *6th Annual International Collaboration on Enteric Disease Burden of Illness Studies Meeting, Tokyo, Japan, August 2009*
- “Partnerships to Improve Public Health: United States Botulism Emergency Response and Antitoxin Release Service.” *2009 USPHS Scientific & Training Symposium, Atlanta, GA, June 2009*
- “Exploring the Links between Emerging Community-Associated Infections and the Agricultural Environment.” *2007 Meeting of the American Public Health Association, Washington, DC, November 2007.*
- “An Outbreak of Gastroenteritis Among Rafters On the Colorado River Caused by Norovirus Contamination of Commercially Packaged Deli Meat.” *2006 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2006*
- “A Model to Predict the Optimal Age to Give a Single Dose of Pneumococcal Conjugate Vaccine to Children.” *43<sup>rd</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, September 2003.*

##### *Invited Lectures, and Symposia*

##### Health Systems Reconstruction

- “Up the River, Without a Surveillance System: The muddy, pot-holed road to surveillance in Haiti” *2011 CDC DGDDER Scientific Seminar Series, Atlanta, GA, July 2011.*
- “Strengthening Global Health Systems: Haiti Between an Earthquake and a Cholera Outbreak” *2011 USPHS Scientific and Training Conference, New Orleans, LA, June 2011.*
- “Strengthening Global Health Systems: Haiti After the Earthquake.” *2011 Global Summit of the Catholic Health Association, Atlanta, GA, June 2011.*

"Emerging Infections in Disaster Settings." *2011 National Meeting of the American Osteopathic College of Occupational & Preventive Medicine, Atlanta, GA, March 2011.*

### Antimicrobial Resistance

"Antimicrobial Resistance: (almost) everything you wanted to know, but were afraid to ask." *2009 MD Emerging Infections Program Scientific Seminar, Baltimore, MD, October 2009.*

"WHO Global Foodborne Infections Network: Strengthening Foodborne Disease Surveillance through Training." *12<sup>th</sup> Annual Conference of the Scientific Advisory Committee of the International Science and Technology Center, Irkutsk, Russia, September 2009.*

"NARMS: The National Antimicrobial Resistance Monitoring System for Enteric Bacteria." *Centers for Disease Control and Prevention Board of Scientific Counselors Annual Meeting, Atlanta, GA, December 2008.*

"NARMS: The National Antimicrobial Resistance Monitoring System for Enteric Bacteria." *2008 Meeting of the U.S. Animal Health Association, Greensboro, NC, October 2008.*

"Laboratory-Confirmed Cases of Botulism in the United States, 2006", *2007 Interagency Botulism Research Coordinating Committee Meeting, Pacific Grove, CA, October 2007.*

### Correctional Healthcare

"Foodborne Outbreaks in the Correctional Healthcare Setting" *2006 Meeting of the National Commission Of Correctional Healthcare, Atlanta, GA, October 2006.*

"Desmotic Epidemiology: Case Studies of Recent Foodborne Outbreaks in Correctional Facilities" *2005 Conference of the American Correctional Facilities Service Association, Savannah, Georgia, August 2005.*

### POSTER PRESENTATIONS

"Trends in Vibriosis in the U.S." *Vibrios in the Environment 2010, Biloxi, MS, November 2010*

"Typhoid Fever Outbreak Associated with Exposure to Frozen Mamey Pulp from Guatemala" *59<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine & Hygiene, Atlanta, GA, November 2010*

"Vibrio mimicus Infection After Consumption of Crayfish — Spokane, Washington 2010" *48<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Vancouver, Canada, October 2010*

"Nalidixic Acid Resistance as a Predictor of Decreased Susceptibility to Ciprofloxacin in Salmonella, NARMS --- United States, 1996–2008" *48<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Vancouver, Canada, October 2010*

"High prevalence of Helicobacter pylori infection, and increased proportion of seropositive children after age 4 years in school children in two cities in the Republic of Georgia." *48<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Vancouver, Canada, October 2010*

"Seasonal Variation in Ciprofloxacin Resistance among Campylobacter, NARMS --- United States, 2005–2008." *50<sup>th</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, Boston, MA, September 2010*

"Epidemiology of Salmonella enterica serotype Infantis in the Russian Federation, 2003 – 2008." *2010 International Conference on Emerging Infectious Diseases, Atlanta, GA, July 2010*

"Entropy-based Source Attribution of Salmonella: Trends in Human Infection." *47<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Philadelphia: PA, October 2009*

"Antimicrobial Resistance among Invasive Nontyphoidal Salmonella in the United States, NARMS, 1996–2007." *47<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Philadelphia: PA, October 2009*

"Vibrio alginolyticus Infections in the United States, 1997–2007." *47<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Philadelphia: PA, October 2009*

"Spatio-Temporal Distribution of Antimicrobial Resistance in Non-Typhi Salmonella, NARMS, 2003 – 2007." *49<sup>th</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA, September 2009*

- "Antimicrobial Resistance in Human E. coli O157 Isolates, NARMS, 1996-2007" *15<sup>th</sup> International Workshop on Campylobacter, Helicobacter, and Related Organisms, Niigata, Japan, September 2009*
- "Ciprofloxacin and Erythromycin Resistance in *Campylobacter jejuni* and *C. coli* in the United States, NARMS, 1997-2007" *15<sup>th</sup> International Workshop on Campylobacter, Helicobacter, and Related Organisms, Niigata, Japan, September 2009*
- "Multidrug-Resistant Phenotype, R-type AKSSuT, among Non-Typhi *Salmonella* in the United States, NARMS, 1996-2005" *ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens, Copenhagen, Denmark, June 2008*
- "Trends in Multidrug and Clinically Important Resistance in Non-Typhi *Salmonella*, NARMS, 1996-2006." *Concurrent Meeting: 46<sup>th</sup> Annual Meeting of the Infectious Disease Society of America and the 48<sup>th</sup> Interscience Conference on Antimicrobial Agents & Chemotherapy, Washington, DC, October 2008*
- "Azithromycin minimum inhibitory concentrations (MICs) for *Shigella sonnei* isolated from humans in the United States." *2008 Annual Conference on Antimicrobial Resistance, Bethesda, MD, June 2008*
- "Ceftiofur Resistance Associated with Decreased Susceptibility to Ceftriaxone in *E. coli*, NARMS 2004-2006." *2008 Annual Conference on Antimicrobial Resistance, Bethesda, MD, June 2008*
- "A Comparison of Antimicrobial Susceptibility and MIC-distributions in *Enterococcus* Isolates Originating from Humans, Animals and Retail Meat." *European Congress of Clinical Microbiology and Infectious Disease. Barcelona, Spain. April 2008.*
- "Multiresistant Isolates of *Salmonella* Enteritidis from the Russian Federation." *2008 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2008*
- "Antimicrobial Resistance in *Salmonella* Serotype Schwarzengrund from human and retail poultry isolates in the United States." *2008 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2008*
- "Antimicrobial Resistance in *Salmonella* Serotypes Paratyphi A, Paratyphi B, Paratyphi C, and Paratyphi B Var. L(+) Tartrate+ (Formerly Java), NARMS, January 1996 – March 2006." *2008 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2008*
- "First *E. Coli* Isolate Resistant to Amikacin and 9 Other Antimicrobial Subclasses, NARMS, 2004 – 2006." *2008 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2008*
- "Antimicrobial Resistance in *Salmonella* Serotype I 4,[5],12:i:-, NARMS 1996-2005." *2008 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2008*
- "Ciprofloxacin and Erythromycin Resistance in *Campylobacter jejuni* and *C. coli* in the United States, NARMS, 1997-2004." *14<sup>th</sup> International Workshop on Campylobacter, Helicobacter, and Related Organisms, Rotterdam, Netherlands, September 2007*
- "Emerging Resistance to Third-Generation Cephalosporins in *Salmonella* serotype Heidelberg, NARMS, 1996-2005." *2007 Annual Conference on Antimicrobial Resistance, Bethesda, MD, June 2007*
- "Community-Isolated Enterococci Resistant to Vancomycin, Gentamicin and Quinupristin-dalfopristin." *2007 Annual Conference on Antimicrobial Resistance, Bethesda, MD, June 2007*
- "Enhancing Outbreak Detection and Response Globally through WHO Global Salm-Surv." *3<sup>rd</sup> Annual OutbreakNet Conference, Atlantic City, NJ, June 2007*
- "Emerging Resistance from Community Isolated Enterococci to Daptomycin, Linezolid, and Quinupristin-Dalfopristin." *2006 International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2006*
- "Quinolone Resistance in *Salmonella enterica* serovar Typhi, NARMS, 1999-2005." *46<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, San Francisco, CA, October 2005*
- "An Outbreak of *Salmonella* Weltevreden among Tuna Eaters in a Correctional Facility." *43<sup>rd</sup> Annual Meeting of the Infectious Disease Society of America, San Francisco, CA, October 2005*
- "Trends in Laboratory Diagnosed *Salmonella* (1996-2004) – Foodborne Diseases Active Surveillance Network (FoodNet)." *International Symposium of Salmonella and Salmonellosis, St. Malo, France, May 2006.*
- "Oops...It Happened Again: Periodic Trends in *Shigella sonnei* Outbreaks in Children 0-9 years old." *55<sup>th</sup> Annual Scientific Epidemic Intelligence Service Conference, Atlanta, GA, April 2006*

“Diarrhea Prevention in People Living with HIV/AIDS: an Evaluation of a Point of Use Water Quality Intervention in Lagos, Nigeria.” *14<sup>th</sup> International Conference on HIV / AIDS and Sexually Transmitted Infections in Africa, Abuja, Nigeria, 2005*

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#### MEDIA EXPERIENCE

Formats include:

- Print (includes *Associated Press, Atlanta Journal-Constitution, Boston Globe, The New York Times, Reuters, Washington Post, Washington Times*)
- Web (includes *FoxNews.com, WebMD, HighBeam Research News Outlet*)
- Radio and podcasts (WABE)

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#### PRECEPT #2: EDUCATION, TRAINING & PROFESSIONAL DEVELOPMENT

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##### EDUCATION

**Tufts University School of Medicine, Boston, MA, August 1995–May 2001**

- Doctor of Medicine Degree

**Tufts University, Medford, MA, August 1991-May 1995**

- Bachelor of Science Degree in Biochemistry with Honors: *magna cum laude, ΦBK*

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##### FELLOWSHIP TRAINING

##### **Epidemic Intelligence Service**

*Enteric Diseases Epidemiology Branch, Centers for Disease Control and Prevention, Atlanta, GA, July 2004-June 2006*

- Expertise and experience in applied epidemiology, outbreak field investigations, surveillance, antimicrobial resistance, and implementation, monitoring and evaluation of programmatic interventions.
- Designed studies, wrote questionnaires, created databases in various software applications, performed statistical analysis including multivariate modeling, and presented findings for stakeholders, internal CDC conferences and international meetings. Compiled and produced reports on public health investigations for the official CDC record.

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##### PROFESSIONAL MEDICAL TRAINING

##### **Emory University Pediatric Residency Program, Internship and Residency**

*Emory Pediatric Residency Affiliated Hospitals, Atlanta, GA, June 2001-June 2004*

- Practiced at weekly primary care clinic serving indigent pediatric population
- Practiced at weekly pulmonology clinic serving pediatric cystic fibrosis patients
- Created research model for the effectiveness of single dose pneumococcal vaccination in resource-poor settings

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##### LICENSES AND BOARD CERTIFICATION

##### **State of Georgia Medical License**

- License # 053093, Expires December 31, 2011

##### **Board Certification in General Pediatrics**

- Diplomat of the American Board of Pediatrics, *Expires October 2012*

**Drug Enforcement Agency Licensure**

- DEA License #FB0024050, *Expires July 2012*

**Pediatric Advanced Life Support**

- American Heart Association, *Expires July 17, 2013*

**Basic Life Support for Healthcare Providers**

- American Heart Association, *Expires September 30, 2012*

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FACULTY AND TEACHING POSITIONS

**Clinical Assistant Professor of Pediatrics**

*Emory University School of Medicine, Department of Pediatrics, Atlanta, GA, March 2008-present*

- Supervise residents and teach medical students about primary care pediatrics in an outpatient clinical setting

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CONTINUING MEDICAL EDUCATION

(see training summary in eOPF for complete details)

- 2011 USPHS Scientific & Training Symposium, New Orleans, LA
- 2011 Pediatric Review Educational Program: PREP The Course, Atlanta, GA
- 2010 International Conference on Emerging Infectious Diseases, Atlanta, GA
- 2<sup>nd</sup> ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria, Toronto, Canada (2010)
- Basic Life Support for Healthcare Providers Course (2010, 2008)
- 2009 Meeting of the Infectious Diseases Society of America, Philadelphia, PA
- 2009 Meeting of the Interscience Conference of Antimicrobial Agents and Chemotherapy, San Francisco, CA
- Pediatric Advanced Life Support Provider Course (2011, 2009)
- 2009 USPHS COA Conference
- 2008 EIS Conference, Atlanta, GA
- Neonatal Resuscitation Program (2008)
- 1<sup>st</sup> ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria, Copenhagen, Denmark (2008)

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ADDITIONAL PUBLIC HEALTH TRAINING & EXPERIENCE

- WHO Analyzing Disrupted Health Systems for Countries in Crisis (2011)
- HHS Records Management (2010)
- CDC Counterintelligence and Foreign Travel Safety Briefing (2010, 2009, 2008)
- Field Medical Readiness Badge Training Modules: Clinical, International Response (2009)
- Joint Medical Executive Skills Institute: Medical Readiness (2009)
- Field Medical Readiness Badge Training Modules: Special Environments, Field Issues (2008)
- CCRF Training Modules (2008)
- CDC Computer Security Awareness (2010, 2009)
- CDC Alternative Dispute Resolution (2008)
- Team Leader Certificate Program (2007)
- CDC Advanced Leadership Development (2007)
- In the spotlight: CDC Media Training Course (2007)
- Incident Management: How CDC Responds

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 PRECEPT #3: CAREER PROGRESSION & POTENTIAL
 

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## PHS CAREER PROGRESSION

2011 Promoted to Temporary O-5  
 2010 Promoted to Permanent O-4  
 2009 Nominated for Extraordinary Proficiency Promotion to T-O5 at Agency level  
 2009 Applied for Assimilation to the Regular Corps  
 2009 Transferred to Supervisory O-6 Billet (01CC232)  
 2007 Transferred to Supervisory O-5 Billet (01CC203)  
 2007 Promoted to Temporary O-4  
 2006 Call to Active Duty (Temporary O-3; Permanent O-3))

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 PHS PROFESSIONAL EXPERIENCE
 

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**Lead Epidemiologist**

*XX Office, Division of Global Disease Detection & Emergency Response, Center for Global Health, Centers for Disease Control & Prevention, Atlanta, GA, April 2011 – present*

**Major Duties, Accomplishments**

- **Provide subject matter expertise** on the design and implementation of disease surveillance systems in Haiti:
  - Responsible for the design, development and implementing of the National Cholera Surveillance System in Haiti
  - Responsible for the redesign and implementation of the Internally Displaced Persons Surveillance System (IDPSS) in Haiti
- **Represented CDC** in meetings with the Government of Haiti, including the Director General for Health, the Minister of Public Health and Population as well as with USG partners in Haiti
- **Supervise, provide technical support, mentor and guide** two staff members, including an Epidemic Intelligence Service officer, and a masters-level staff; manage staff workload
- **Disseminate findings of scientific work**, orally and through the publication of peer-reviewed, public health literature
  - Gave oral presentations at several national conferences and international meetings

**Deputy Incident Manager, CDC Haiti Cholera Response**

*Office of Public Health Preparedness & Emergency Response, Centers for Disease Control & Prevention, Atlanta, GA, January 2011 – April 2011*

**Major Duties, Accomplishments**

- **Led the agency's Haiti Cholera Response**, alongside the Incident Manager, and reported to the CDC Director, Dr. Tom Frieden, through regular communications including, most notably, weekly Director Update Briefings.
  - **Represented CDC** in regular, response-related briefings to the United States Congress including the House of Representatives Foreign Affairs Committee and United States Senate Foreign Relations Committee, and chaired daily conference calls with USG partners and PAHO regional leadership in Washington DC.
  - Oversaw the development of a national Community Health Worker (CHW) training program. The program focused on training master trainers from all 10 administrative departments who were responsible for replicating the training for community health workers across their departments.
  - Oversaw the rollout of 13 million USD in Emergency Cholera Supplemental funds disbursed

to eight PEPFAR partners to fund cholera treatment, water, sanitation and hygiene improvement and community health worker training activities in 99 clinics and community health worker centers across Haiti.

#### **Team Leader, National Surveillance Team**

*Enteric Diseases Branch, Division of Foodborne, Bacterial & Mycotic Diseases, National Center for Zoonotic, Vectorborne & Enteric Diseases, Centers for Disease Control & Prevention, Atlanta, GA, September 2009 – present*

##### **Major Duties, Accomplishments**

- **Provide subject matter expertise** on the epidemiology, surveillance laboratory diagnostics of key nationwide surveillance systems for enteric bacteria including Botulism, Listeria, Vibrio, *Salmonella*, Shigella, and analyze antimicrobial resistance data to develop more effective mitigation strategies
  - Managed the Botulism Surveillance and Clinical Response Program, the Listeriosis Initiative, the Cholera and Other Vibrio Information System (COVIS), the enteric pathogen portion of the Public Health Laboratory Information System (PHLIS), and the National Antimicrobial Resistance Monitoring System (NARMS)
- **Provide subject-matter expertise and round-the-clock clinical consultation** to physicians and state health departments for the diagnosis of botulism
  - Coordinated the release of botulism antitoxin from quarantine stations in response to requests from clinicians nationwide
  - Co-investigator: Use of Botulinum Antitoxin (Equine) Type E for the Treatment of Persons Thought To Be Suffering from Type E Botulism and for the Prophylaxis of Type E Botulism
  - Co-investigator: Production of the Public Service Orphan Drug Human Botulism Immune Globulin (BIG-IV; BabyBIG®)
  - Co-investigator: IND: Emergency Use of Investigational Heptavalent Equine-Based Botulinum Antitoxin (H-BAT) After Exposure to Clostridium botulinum or Other Closely Related Bacterial Species Due to a Bioterrorism Incident or a Naturally-Occurring Outbreak
- **Supervise, provide technical support, mentor and guide** 17 staff members, including 5 PHS Officers, doctoral and masters-level staff, Epidemic Intelligence Service officers, a *CDC Experience Fellow* and students; manage staff workload
- **Disseminate findings of scientific work**, orally and through the publication of peer-reviewed, public health literature
  - NST published 14 manuscripts, presented 17 abstracts and oral presentations at national and international conferences, published 2 annual reports, and performed the annual close-outs for all five surveillance systems
- **Provide expert consultation to international agencies** on antimicrobial resistance issues and laboratory-based surveillance for enteric diseases

#### **Medical Epidemiologist, National Surveillance Team**

*Enteric Diseases Branch, Division of Foodborne, Bacterial & Mycotic Diseases, National Center for Zoonotic, Vectorborne & Enteric Diseases, Centers for Disease Control & Prevention, Atlanta, GA, August 2008 – August 2009*

##### **Major Duties, Accomplishments, and Impact**

- **Provide subject matter expertise** on the epidemiology, laboratory diagnostics of enteric bacteria and analyze antimicrobial resistance data to develop more effective mitigation strategies.
  - **Led the National Antimicrobial Resistance Monitoring System**, the human component of an interagency (CDC, FDA, and USDA) program to monitor trends in antimicrobial resistance and develop strategies to mitigate its emergence
- **Provide subject-matter expertise and round-the-clock clinical consultation** to physicians and state health departments for the diagnosis of botulism
  - Coordinated the release of botulism antitoxin from quarantine stations in response to requests

- from clinicians nationwide
  - Served as co-investigator for botulism vaccine and emergency use antitoxin protocols
- **Supervise, provide technical support, mentor and guide** 7 staff members, including doctoral and masters-level staff, Epidemic Intelligence Service officers, and students; manage staff workload
  - Trained and supervised 11 EIS officers in the clinical response to botulism cases
- Assist with **emergency response activities and outbreak investigations**, including those within and, when requested, outside the Branch
  - Supervised an Epi-Aid in TX investigating a nationwide outbreak of Salmonella and coordinated epidemiologic and environmental investigations examining risk factors for illness. Supervised questionnaire design, implementation and analysis
  - Supervised the epidemiologic investigation of a nationwide botulism outbreak in a commercially available chili product that led to a recall of 21 million pounds of chili products
- **Disseminate findings of scientific work**, orally and through the publication of peer-reviewed, public health literature
  - Gave oral and poster presentations at several national conferences and international meetings
- **Provide expert consultation to outside international agencies** on antimicrobial resistance issues and enteric disease surveillance
  - Served as the lead epidemiology trainer at a Global Salmonella Surveillance training course for epidemiologists from across the Russian Federation.
  - Invited to be an expert reviewer for the Canadian Integrated Program for Antimicrobial Resistance Surveillance
  - Served as Rapporteur and Expert Consultant on the categorization of antibiotics of critical importance to human medicine for the development of risk management strategies to contain antimicrobial resistance due to non-human antimicrobial use

### **Medical Epidemiologist, Epidemiology Section**

*Bacterial Zoonoses Branch, Division of Foodborne, Bacterial & Mycotic Diseases, National Center for Zoonotic, Vectorborne & Enteric Diseases, Centers for Disease Control & Prevention, Atlanta, GA, August 2006 – August 2007*

#### **Major Duties, Accomplishments, and Impact**

- **Develop subject matter expertise** on the epidemiology, laboratory diagnostics, prevention and control of bacterial zoonoses domestically and internationally
  - Lead working group assessing the effectiveness of brucellosis reporting, and spearheaded the revision of CDC's brucellosis case report form
  - Assessed the data flow of the Special Bacteriology Research Laboratory specimens
- Assist with **emergency response activities and outbreak investigations**, including those within and, when requested, outside the Branch
  - Assisted state health departments in disease diagnostic specimen submission to CDC laboratories
- Analyze data on risks of developing bacterial zoonoses so as to develop more refined prevention efforts
- Disseminate findings of scientific work orally and through peer-reviewed/public health literature
- **Provide expert consultation to outside agencies** on laboratory diagnostic methods, prevention, and epidemiology of brucellosis, anthrax, leptospirosis, and other bacterial zoonoses
- **Set research and program priorities** for international control and prevention of zoonotic diseases within the Branch
  - Developed a study in Kyrgyzstan to estimate the burden of illness of brucellosis, and determine the cost effectiveness of nationwide control measures in Kyrgyzstan
  - Established a relationship with the ministry of health in Kazakhstan to explore new methods of bacterial zoonoses control in Central Asia

- **Supervise, provide technical support and training** for an Epidemic Intelligence Service Officer assigned to the branch
  - Provided mentorship and guidance to the branch EIS officer on surveillance, diagnostic testing and issues pertaining to emerging zoonoses.

INTERNATIONAL PUBLIC HEALTH EXPERIENCE

**World Health Organization Advisory Group on Integrated Surveillance for Antimicrobial Resistance, Guelph, Canada, June 2010; Copenhagen, Denmark, June 2009**

- Served as *Rapporteur* and as *Expert Consultant* for the first and second meetings of the World Health Organization Advisory Group on Integrated Surveillance for Antimicrobial Resistance whose objective was to draft a strategic framework for WHO activities on containment of food-related antimicrobial resistance

**National Center for Disease Control, Tbilisi, Republic of Georgia, August 2007 – present**

- Primary investigator of a set of epidemiologic, clinical and microbiological studies of *Helicobacter pylori* infection and public health diagnosis and treatment, to reduce the burden of clinical illness in the Republic of Georgia

**National Institute of Health, Yerevan, Armenia, August 2007 – present**

- Primary investigator of a multi-year, nationwide study to assess the incidence, risk factors and long-term outcomes of botulism and to enhance the epidemiologic and laboratory capacity for diagnosis of botulism in Armenia

**World Health Organization Expert Meeting On Critically Important Antimicrobials for Human Medicine, Copenhagen, Denmark, May 2007**

- Served as *Rapporteur* and *Expert Consultant* on the categorization of antibiotics of critical importance to human medicine for the development of risk management strategies to contain antimicrobial resistance due to non-human antimicrobial use

**World Health Organization Global Foodborne Infections Network, multiple locations, August 2005 – present**

- Served as lead epidemiology instructor for multiple levels of WHO GFN courses in Francophone Africa, the Russian Federation, and countries in Central Asia, providing instruction in French and English
- Served as epidemiology instructor for multiple levels of WHO GFN courses in Madagascar and Guatemala, providing instruction in French and Spanish

**Central Research Institute of Epidemiology, Moscow, Russia, September 2004 – present**

- Primary investigator of a project aiming at the development of an enhanced laboratory-based surveillance system to improve the identification, characterization and control of *Salmonella* infections in the Russian Federation

TEMPORARY DUTY, INTERNATIONAL ASSIGNMENTS & DEPLOYMENTS

Haiti	7/31/11-8/5/11	Provide technical assistance to the Government of Haiti
Haiti	6/27/11-7/8/11	Provide technical assistance to the Government of Haiti
Costa Rica	5/30/11-6/2/11	Serve as an epidemiology instructor for the Central-American WHO Global Foodborne Infections Network Course
Tunisia	5/14/11-5/26/11	Attend a WHO residential course in Analyzing Disrupted Health Systems for Countries in Crisis

Dominican Republic	4/26/11-4/29/11	Represent CDC at a binational workshop between Haiti/DR about the lessons learned from the Cholera Outbreak
Haiti	10/23/10– 11/12/10	Lead cholera disease surveillance efforts and establish the Haitian National Cholera Monitoring System
Denmark	8/25/10 – 8/29/10	Represent CDC at the Steering Committee Meeting of the WHO Global Foodborne Infections Network
France	8/23/10 – 8/25/10	Represent CDC in meetings with the International Network of Pasteur Institutes.
Armenia	6/16/10 – 6/25/10	Supervision of project activities.
Canada	6/5/10 – 6/11/10	Serve as <i>Expert Consultant</i> for the second meeting of the World Health Organization Advisory Group on Integrated Surveillance for Antimicrobial Resistance.
Russia	5/23/10 – 6/4/10	Serve as an epidemiology instructor for the Russian WHO Global Foodborne Infections Network Course
Haiti	4/19/10 – 5/8/10	Lead post-earthquake disease surveillance effort and serve as Public Health Response Coordinator
Russia	9/19/09 – 9/28/09	Serve as an epidemiology instructor for the Russian WHO Global Foodborne Infections Network Course
Japan	8/28/09 - 9/6/09	Attend and present at the 6 <sup>th</sup> Annual International Collaboration on Enteric Disease Burden of Illness Studies Meeting and the 15 <sup>th</sup> International Workshop on Campylobacter, Helicobacter, and Related Organisms.
Atlanta, GA	3/25/09 – 7/31/09	Temporary duty assignment as Acting Team Lead (Supervisory O-6 Billet), National Surveillance Team in the Enteric Diseases Epidemiology Branch
Denmark	6/13/09 - 6/19/09	Serve as <i>Rapporteur</i> for the first meeting of the World Health Organization Advisory Group on Integrated Surveillance for Antimicrobial Resistance.
Atlanta, GA	1/20/09-3/24/09	Temporary duty assignment as Acting Team Lead (Supervisory O-6 Billet), National Surveillance Team in the Enteric Diseases Epidemiology Branch
Belcourt, ND	1/2/09 – 1/16/09	Deployed to the Quentin M. Burdick Memorial Health Care Facility in Belcourt, ND to provide medical/physician support during a public health crisis.
Armenia	6/22/08 - 7/3/08	Supervision of project activities.
France	6/18/08 - 6/20/08	Represent CDC in a meeting with the International Network of Pasteur Institutes.
Denmark	6/13/08 - 6/18/08	Serve as <i>Rapporteur</i> and Expert Consultant on the categorization of antibiotics of critical importance to human medicine for the development of risk management strategies to contain antimicrobial resistance due to non-human antimicrobial use.
Russia	3/28/08 - 4/6/08	Supervision of project activities.
	9/19/07 - 9/30/07	Supervision of project activities.
Netherlands	8/30/07 - 9/5/07	Attend and present at the 14 <sup>th</sup> International Workshop on Campylobacter, Helicobacter, and Related Organisms.
Armenia	8/7/07 - 8/14/07	Supervision of project activities.
Republic of Georgia	6/5/07 - 6/9/07	Supervision of project activities.
Denmark	5/22/07 - 6/1/07	Attend and present at the ASM Conference on Antimicrobial

Russia	5/12/07 - 5/17/07	Resistance in Zoonotic Bacteria and Foodborne Pathogens Serve as lead epidemiology instructor for the Central Asian WHO Global Foodborne Infections Network Course
Switzerland	5/6/07 - 5/11/07	Represent CDC at the Steering Committee Meeting of the WHO Global Foodborne Infections Network
Guatemala	3/18/07 - 3/21/07	Serve as an epidemiology instructor for the Central American WHO Global Foodborne Infections Network Course
Atlanta, GA	3/12/07 – 8/31/07	Temporary duty assignment as Lead of the National Antimicrobial Resistance Monitoring System (NARMS) in the Enteric Diseases Epidemiology Branch
Kenya	1/23/07 - 1/28/07	Provide technical assistance to Ministry of Health to design and implement regional training for the laboratory-based surveillance of salmonella.
Madagascar	1/18/07 - 1/23/07	Serve as an epidemiology instructor for the Indian Ocean WHO Global Foodborne Infections Network Course
Atlanta, GA	1/3/07 – 03/11/07	Temporary duty assignment as Lead of the National Antimicrobial Resistance Monitoring System (NARMS) in the Enteric Diseases Epidemiology Branch
Kyrgyzstan	9/9/06 - 9/12/06	Supervision of project activities.
Kazakhstan	9/1/06 - 9/09/06	Supervision of project activities.

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#### COLLATERAL DUTIES

##### Centers for Disease Control and Prevention

- Staff epidemiologist, WHO Collaborating Centre for Surveillance, Epidemiology and Control of *Salmonella* and other Foodborne Diseases
- Steering Committee member, WHO Global Foodborne Infections Network
- Voting member, WHO Advisory Group on Integrated Surveillance for Antimicrobial Resistance
- Resource member, WHO Expert Panel: Critically Important Antimicrobials For Human Medicine
- Medical Monitor, IND Protocol: Use of NP-018 Heptavalent Equine-Based Botulinum Antitoxin (H-BAT) After Exposure to Clostridium botulinum Toxin or Other Closely-Related Botulinum Toxin-Producing Clostridia Species Due to a Naturally-Occurring Outbreak or Isolated Incident
- Medical Monitor, IND Protocol: Use of Pentavalent (ABCDE) Botulinum Toxoid Aluminum Phosphate Adsorbed (PBT) for Workers at Risk of Occupational Exposure to Botulinum Toxins
- Instructor, 2009, 2008 Division of Foodborne, Bacterial & Mycotic Diseases EIS Officer Microsoft Access, Data Management and JMP Exploratory Analysis Trainings
- Instructor, 2007, 2006 EIS Summer Training Course
- Instructor, 2006, 2005 Epi-In-Action Course, Emory Rollins School of Public Health

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#### EDITORIAL AND REVIEWER RESPONSIBILITIES

- Editorial reviewer: American Academy of Pediatrics. “*Botulism and Infant Botulism*” and “*Clinical Syndromes Associated with Foodborne Diseases*” In: *Red Book: 2012 Report of the Committee on Infectious Diseases*, 29<sup>th</sup> edition, Elk Grove Village, IL: American Academy of Pediatrics; 2012 and in *Red Book: 2009 Report of the Committee on Infectious Diseases*, 28<sup>th</sup> edition, Elk Grove Village, IL: American Academy of Pediatrics; 2009
- Expert reviewer: Canadian Integrated Program for Antimicrobial Resistance Surveillance; 2006 – 2010

- Expert content reviewer: Harvard-Smithsonian Center for Astrophysics; 2005 – present. Conducted an assessment of current item inventory, assisted with the construction of content-specific items, and analysis of items for Nature of Science assessment. Responsible for:
  - Misconceptions Oriented, Standards-based Assessment Resource for Teachers in the Life Sciences (MOSART-LS): Project funded under NSF Grants # EHR-0830922, EHR-0454631, EHR-0412382
  - Standards- and Preconceptions-based Assessment of Reform Curricula in Science in High School (SPARCS-HS) project funded under NSF Grants # ESI-0454631, EHR-0732151
- Editorial reviewer: Department of Health and Human Services. “Food Safety and Security” In: *ABCs of Safe and Healthy Child Care: A Handbook for Childcare Providers*, 2007 edition, U.S. Public Health Service, Department of Health and Human Services; 2007
- Editorial reviewer: American Academy of Pediatrics. “*Listeria monocytogenes Infections*” and “*Staphylococcal Food Poisoning*” In: *Red Book: 2006 Report of the Committee on Infectious Diseases*, 27<sup>th</sup> edition, Elk Grove Village, IL: American Academy of Pediatrics; 2006
- Peer reviewer for *American Journal of Infection Control*, *Clinical Infectious Diseases*, *Emerging Infectious Diseases*, *Journal of Pediatric Infectious Diseases*, and *Pediatric Infectious Diseases Journal*

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**PRECEPT #4: PROFESSIONAL CONTRIBUTIONS & SERVICE TO THE COMMISSIONED CORPS**


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**PHS SUPPORT ACTIVITIES**

- Voting Member, Awards Board, representative
- Chair, Awards Board
- Executive Committee member; Co-Chair, Communications Subcommittee, Atlanta COA
- Appointed Member, PHS Ensemble; performed at 2011 USPHS Scientific & Training Symposium and at the first invitation of the USPHS Ensemble to the WWII Memorial Summer Concert Series
- Member, Physician PAC (PPAC), Career Development & Training Subcommittee
- PPAC Medical Category Career Mentor: Formal mentor to 3 officers who scored in the lowest quartile during promotion cycle and informal mentor to 9 officers on uniform wear, award writing and career enhancement
- PPAC Medical Category Recruitment Ambassador
- Participated and gave oral presentation on "Partnerships to Improve Public Health: United States Botulism Emergency Response and Antitoxin Release Service" at the 2009 USPHS Scientific & Training Symposium and "Lessons Learned from Haiti" at the 2011 USPHS Scientific & Training Symposium
- Completed BOTC & IOTC – CC training ribbon awarded 2006; completed FMRB – awarded 2009
- Applied for assimilation to the Regular Corps in 2009
- Wear uniform daily, appropriately, with pride and distinction during routine work and while in attendance at national meetings, keeping decorations current and advise others on same

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**COMMITTEES AND OTHER ACTIVITIES**
**Centers for Disease Control and Prevention**

- Steering Committee member, FoodNet
- Member, Burden of Illness for Enteric Diseases Working Group
- Member, OID Surveillance Working Group
- Member, *Epidemiology & International Health* sections, American Academy of Pediatrics

**Emory University School of Medicine Pediatric Residency Program**

- Pediatric Intern Selection Committee (2001-2004)

**Tufts University School of Medicine**

- Founding Member, The Sharewood Project
- Founding Member, Promoting Awareness in Healthcare in the Deaf Community
- Problem-Based Learning Curriculum Development Committee

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**PROFESSIONAL ASSOCIATIONS**

- Board of Directors, Out of Hand Theater
- Community Advisory Board, Emory Rollins School of Public Health
- American Academy of Pediatrics
- Fellow, The Albert Schweitzer Fellowship

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**CIVIC, COMMUNITY, AND OUTREACH ACTIVITIES**
**Children's Healthcare of Atlanta, Pediatric Community Clinic**

*Children's Healthcare of Atlanta, Atlanta, GA, November 2008 – Present*

- Provide urgent and immediate outpatient pediatric medical care

**Tufts University Admissions & Lambaréné Schweitzer Fellowship Selection**

- Closely involved with the selection of prospective Tufts Undergraduates & Schweitzer Fellows

**Locum Tenens Physician**

*Hôpital Albert Schweitzer, Lambaréné, Gabon, February – May 2001*

- Provided outpatient and inpatient pediatric care in a *locum tenens* capacity at the Albert Schweitzer Hospital, in Lambaréné, Gabon

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#### FOREIGN LANGUAGE & SPECIAL SKILLS

- French – speak, read/write fluently. Recipient of the *Diplôme de Langue et Littérature Française, Université de Paris-Sorbonne, France*
- Greek – native language
- Spanish – speak, read, and write with moderate competence
- ASL (American Sign Language) – high proficiency
- Hebrew – speak, read, and write with basic competence
- Russian – speak, read, and write at elementary level (currently studying)
- Proficient in Microsoft Word, PowerPoint, Access, Excel, SAS, JMP

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#### UNIFORMED SERVICE

- Commissioned Officer (Lieutenant Commander), U.S. Public Health Service (2006-present)
- Mandatory Conscription, (Private), Medical Corps Directorate, Hellenic Army (1998-2000)

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#### PRECEPT #5: RESPONSE READINESS

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#### RESPONSE READINESS & READINESS TRAINING

- Uninterrupted record of having met and maintained “Basic Qualified” Readiness Standards since Call to Active Duty in 2006
- OFRD online training modules – completed all required courses (2006) and FMRB Field Issues (2008), Special Environments (2008), International Responses (2009), and Clinical (2009) modules.
- FEMA online training modules – completed *Incident Command System* (2006) and *National Incident Management System* (2006)