

Devasena Gnanashanmugam, MD

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SUMMARY OF QUALIFICATIONS

Infectious diseases physician experienced in the treatment of HIV, TB, malaria, and multiple infectious diseases with over 5 years international health care delivery experience in resource constrained settings. Clinician with over 4 years experience managing projects in Zimbabwe, over 6 years experience in India, and an additional 3 years overseeing global HIV programs. Actively and effectively engaged with government officials, key opinion leaders, and local staff, in project design and development.

EMPLOYMENT

Medical Director
PPD, Morrisville, NC
2010- present

- Identified therapeutic gaps in currently available anti-infectives for children, evaluated the potential of new therapies to address these, resulting in pediatric investigational plans for clinical trials within these areas
- Established a sound scientific foundation for clinical programs by providing medical expertise, employing clinical practices, and engaging Key Opinion Leaders and domestic regulatory agencies to craft clinical programs
- Improved team cohesion during the program design process by clarifying questions and communicating effectively with the entire clinical study team, resulting in timely project completion and delivery
- Global programs, including those in sub-Saharan Africa and Asia, in HIV, tuberculosis, pediatric vaccines, influenza, bacteremia, skin infections, pneumonia, urinary tract infections, pediatric infections and others were implemented.
- Designed, analyzed, and managed global clinical trial programs in infectious diseases for both private companies and governmental agencies
- Other responsibilities include those outlined for the Associate Medical Director.

Associate Medical Director
PPD, Morrisville, NC
2008-2010

- Supervised the safety of study subjects in clinical trials. Evaluated Serious Adverse Events (SAEs), reviewed laboratory data, and clinical study data.
- Secured projects resulting in increased revenue for PPD by critiquing proposed studies for business development negotiations and collaborating with other business leaders, research associates, and safety specialists during business development meetings
- Instructed the study team with therapeutic training and protocol training to ensure protocol integrity
- Duties included many outlined for the Medical Director position.

Instructor and Fellow, Pediatric Infectious Diseases

Stanford University, CA
2003- 2008

Appropriate vaccine strategies to employ after polio elimination remain unknown. To address this problem, a project assessing the immunogenicity and shedding properties of oral polio vaccine (OPV) in HIV exposed children was implemented over four years in Zimbabwe

- Addressed the requirement for qualified local staff in Harare by creating and designing all operating procedures for all field activities, and hiring and training all staff on these procedures, including supervising staff training of research associates
- Addressed the challenge of accurately obtaining lab results on blood and other biologic samples by personally visiting local laboratories, evaluating equipment and QC logs, and engaging with local laboratory directors to ensure tests were performed appropriately and accurately
- Consulted with the Ministry of Health, Research Council of Zimbabwe, and other government personnel in Zimbabwe to obtain clearance for specimen shipping, and ethics committee approvals.
- Interacted with the teams conducting acute flaccid paralysis surveillance in Zimbabwe
- Ensured that concomitant testing of biologic samples for Oral Polio Vaccine were accurately performed by training microbiology staff and medical students on the techniques of conventional Polymerase Chain Reaction (PCR) at the University of Zimbabwe,
- The above activities, with other key collaborators, resulted in supporting education within the University of Zimbabwe and manuscript submission

The clinical responsibilities included those of a physician treating children

- Served as the primary care physician for HIV infected children
- Evaluated inpatients and outpatients with tuberculosis, malaria, and other infectious diseases

Pediatrician
EmCare, Santa Clara, CA
2005-2006

- Provided primary care to children presenting at urgent care clinics

PROFESSIONAL TRAINING

Ongoing Courses in Global Health (currently “Meritorious”)
USAID Global Health eLearning Center
2011

Fellow, Pediatric Infectious Diseases
Stanford University, CA
2003-2007

Resident, Pediatrics
University of Illinois, Chicago, IL
2000-2003

Intern, Internal Medicine
University of Pittsburgh Medical Center, McKeesport, PA
1998-1999

EDUCATION

MBBS (MD)

MS Ramaiah Medical College, Bangalore, India

1991-1997

- Trained in community medicine, the track outlining the national primary health care delivery system and national public health programs within India
- Directly cared for tuberculosis patients in TB wards both within Bangalore City and in primary health care centers in rural areas
- Directly cared for patients with malaria, measles, and other infectious diseases as inpatients and outpatients

VOLUNTEER WORK

Medical Advisor

CARTHA: network of professionals committed to collaboration as a means of improving global health
2009- present

- Consultant and active volunteer creating comprehensive curricula on global infectious diseases for medical students and medical residents
- Works directly with the CEO and with the Board of Directors.

Volunteer Physician

Cite Soleil, Haiti

2010

- Provided primary medical care with a group of physician volunteers in Cite Soleil, Haiti. Volunteered through the Haiti Connection.
- Evaluated patients with TB, HIV, and other infectious diseases

Volunteer Physician

Tocana, Guatemala

2003

- Primary medical care was provided to rural areas in Tocana, Guatemala with a team of pediatricians and emergency medicine physicians.

LICENSES & CERTIFICATIONS

American Board of Pediatrics (ABP), October 2003- October 2013

Education Commission of Foreign Medical Graduates (ECFMG), October 1998- present

Licensure, Physician and Surgeon, California, July 2003- present

Licensure, Physician, North Carolina, March 2009- present

Fellow, American Academy of Pediatrics, 2006- present

AWARDS AND GRANTS

Dean's Postdoctoral Fellowship Award: York Francis Fund, Project Title: Development and Transmission of Neurorevertant Sabin Trivalent OPV Vaccine Derived Polioviruses (VDPV) after OPV Administration to Infants, July 1, 2005- July 1, 2006

IDSA Travel Grant, 43rd Annual Meeting of the Infectious Diseases Society of America, October 6-9, 2005

PUBLICATIONS AND PRESENTATIONS

Selected Publications:

Gnanashanmugam D, Falkovitz-Halpern MS, Dodge A, Fang M, Wong LJ, Esparza M, Hammon R, Rivas-Merelles EE, Santos JI, Maldonado Y. Shedding and reversion of oral polio vaccine type 3 in Mexican vaccinees: comparison of mutant analysis by PCR and enzyme cleavage to a real-time PCR assay. *J Clin Microbiol.* 2007 Aug;45(8):2419-25.

Gnanashanmugam D, Troy SB, Musingwini G, Huang D, Falkovitz-Halpern MS, Stranix-Chibanda L, Nathoo K, Chumakov K, and Maldonado Y. Immunologic Response to Oral Polio Vaccine in HIV-infected and Uninfected Zimbabwean Children (in submission)

Selected Abstracts:

Wong LJ, Biswas S, Gnanashanmugam D, Fang M, Hammon R, Rivas-Merelles EE, Santos J, Maldonado Y. Shedding and Household Transmission of Sabin Poliovirus Type 3 after Administration of OPV to Mexican Infants in a Primary OPV Vaccination Schedule. 43rd Annual Meeting of the Infectious Diseases Society of America, October 6-9, 2005. San Francisco, CA

Gnanashanmugam D, Stranix L, Robertson V, Moyo S, Shetty A, Simoyi M, Nathoo K, Pazvakavambwa I, Maldonado YA. Shedding and Reversion of OPV3 in Infants of HIV Positive Mothers in Zimbabwe. Pediatric Academic Societies' Meeting. May 2-8, 2007. Toronto, Canada.

Presentations:

Shedding and Household Transmission of Sabin Poliovirus Type 3 after Administration of OPV to Mexican Infants in a Primary OPV Vaccination Schedule. Wong LJ, Biswas S, Gnanashanmugam D, Fang M, Hammon R, Rivas-Merelles EE, Santos J, Maldonado Y. October 6, 2005. 43rd Annual Meeting of the Infectious Diseases Society of America. San Francisco, CA

Excretion and Reversion of OPV3 in Zimbabwean Children of HIV Infected Mothers. Lynda Stranix-Chibanda, M.D., Devasena Gnanashanmugam, M.D., Isidore- Evans Pazvakavambwa, M.D., Kusum Nathoo, M.D., Godfrey Woelk, Ph.D, Avinash Shetty, M.D. and Yvonne Maldonado, M.D. Oral presentation for University of Zimbabwe-University of California, San Francisco, Annual Research Day, 26 – 27 April 2007.

Gnanashanmugam D, Huang C, Ivanov A, Stranix L Pazvakavambwa I., Nathoo K., Chumakov K., Maldonado Y. Immunogenicity of OPV in HIV Exposed Zimbabwean Children. Pediatric Academic Societies' Meeting, May 2008, Honolulu, Hawaii.