

BIOGRAPHICAL SKETCH

NAME Chi, Benjamin H.	POSITION TITLE		
eRA COMMONS USER NAME CHIBEN	Associate Professor, Obstetrics and Gynecology, University of North Carolina at Chapel Hill		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Duke University, Durham, NC	BS	1995	Biology, History
Tulane University, New Orleans, LA	MD	1999	Medicine
London School of Hygiene and Tropical Medicine	MSc	2007	Epidemiology

A. Personal Statement

A board-certified obstetrician-gynecologist, I have lived full-time in Lusaka, Zambia since 2003. I serve as PI for two CDC-PEPFAR service awards and have working knowledge of the opportunities and programmatic gaps in the Zambian context. I am well-versed in cohort analyses and have a strong knowledge of relevant epidemiological and statistical methodologies. I have designed multiple studies within the context of HIV program expansion to understand the effectiveness of different health facility- or community-based interventions. This expertise in implementation science is an important component of my work, given our group's large service commitments and the need for proven implementation strategies.

B. Positions and Honors

Employment

1999 - 2003	<i>Resident, Dept. of Obstetrics & Gynecology, Baylor College of Medicine, Houston, TX</i>
2002 - 2003	<i>Administrative Chief Resident, Dept. of Obstetrics & Gynecology, Houston, TX</i>
2003 - 2006	<i>Instructor, Dept of Obstetrics & Gynecology, University of Alabama at Birmingham</i>
2003 - 2006	<i>Fellow, Division of International Women's Health and Clinical Epidemiology, University of Alabama at Birmingham</i>
2005 -	<i>Honorary Lecturer, Dept of Obstetrics & Gynecology, University of Zambia</i>
2006 - 2010	<i>Assistant Professor (tenure track), Dept of Obstetrics & Gynecology, University of Alabama at Birmingham</i>
2010 - 2011	<i>Associate Professor (tenure track), Dept of Obstetrics & Gynecology, University of Alabama at Birmingham</i>
2012 -	<i>Visiting Research Associate Professor (awaiting appointment as tenured Associate Professor, anticipated in Spring 2013), Dept of Obstetrics & Gynecology, University of North Carolina at Chapel Hill</i>

Other Experience and Professional Memberships:

2003 -	<i>Member, Technical Working Group for the Prevention of Mother-to-Child Transmission of HIV (PMTCT) National AIDS Council, Zambian Ministry of Health.</i>
2005 -	<i>Training Director, Centre for Infectious Disease Research in Zambia</i>
2006 -	<i>Diplomate, American Board of Obstetrics and Gynecology</i>
2008 -	<i>Fellow, American College of Obstetricians and Gynecologists</i>
2008 - 2011	<i>Associate Scientist, UAB Center for AIDS Research</i>
2008 - 2011	<i>Co-Director, International Core, UAB Center for AIDS Research</i>
2009 - 2012	<i>Deputy Research Director, Centre for Infectious Disease Research in Zambia</i>

- 2009 - *Steering Group Member*, International Epidemiologic Databases to Evaluate AIDS (IeDEA), Southern African region
- 2010 - *Obstetrics co-chair*, PMTCT Scientific Committee, International Maternal Adolescent AIDS Clinic Trials Group (IMPAACT)
- 2011 - *PMTCT vice-chair elect (to start in 2013)*, HIV Prevention Scientific Committee, IMPAACT
- 2012 *Advisor*, Technical consultation for PMTCT program evaluation using cohort methodologies, World Health Organization
- 2012 *Member*, Maternal and Child Health Guideline Development Group, HIV Department, World Health Organization
- 2012 - *Scientific Director*, Centre for Infectious Disease Research in Zambia

C. Selected peer-reviewed publications (15 of 70 published or in press)

1. **Chi BH**, Adler MR, Bolu O, Mbori-Ngacha D, Ekouevi DK, Gieselman A, Chipato T, Luo C, Phelps BR, McClure C, Mofenson LM, Stringer JSA. Progress, challenges, and new opportunities for the prevention of mother-to-child transmission of HIV under the U.S. President's Emergency Plan for AIDS Relief. *J Acquir Immune Defic Syndr*. 2012 Aug 15; 60:S78-S87.
2. Giganti MJ, Limbada M, Mwango A, Moyo C, Mulenga LB, Guffey MB, Mulenga PL, Bolton-Moore C, Stringer JSA, **Chi BH**. Six-month hemoglobin concentration and its association with subsequent mortality among adults on antiretroviral therapy in Lusaka, Zambia. *J Acquir Immune Defic Syndr*. 2012 Sep 1;61(1):120-3
3. Stringer JSA, Mwango A, Giganti M, Mulenga L, Levy J, Stringer EM, Mulenga P, Saag MS, Williams FB, Reid SE, **Chi BH**. Effectiveness of generic and proprietary first-line antiretroviral regimens in a primary health care setting in Lusaka, Zambia: a cohort study. *Int J Epidemiol*. 2012 Apr; 41(2):448-59.
4. **Chi BH**, Mwango A, Giganti M, Sikazwe I, Moyo C, Schuttner L, Mulenga LB, Bolton-Moore C, Chintu NT, Sheneberger R, Stringer EM, Stringer JSA. Comparative outcomes of tenofovir- and zidovudine-based antiretroviral therapy regimens in Lusaka, Zambia. *J Acquir Immune Defic Syndr*. 2011 Dec 15; 58(5): 475-81.
5. **Chi BH**, Yiannoutsos CT, Westfall AO, Newman JE, Zhou J, Cesar C, Brinkhof MWG, Mwango A, Balestre E, Carriquiry G, Sirisanthana T, Mukumbi H, Martin JN, Grimsrud A, Bacon M, R Thiebaut. Universal definition of loss to follow-up in HIV treatment programs: a statistical analysis of 111 health facilities across Africa, Asia, and Latin America. *PLoS Med*. 2011 Oct; 9(10):e1001111. doi:10.1371/journal.pmed.1001111.
6. Dorton B, Mulindwa J, Li MS, Chintu NT, Chibwasha CJ, Mbewe F, Frenkel LM, Stringer JSA, **Chi BH**. CD4+ cell count and risk for antiretroviral drug resistance among women using peripartum nevirapine for perinatal HIV prevention. *BJOG*. 2011 Mar; 118(4): 495-9.
7. **Chi BH**, Vwalika B, Killam WP, Wamalume C, Giganti MJ, Mbewe R, Stringer EM, Chintu NT, Putta NB, Liu KC, Chibwasha CJ, Rouse DJ, Stringer JSA. Implementation of the Zambia Electronic Perinatal Record System for comprehensive antenatal and delivery care. *Int J Gynaecol Obstet*. 2011 May; 113(2): 131-6.
8. Stringer EM, Ekouevi DK, Coetzee D, Tih P, Creek T, Stinson K, Giganti M, Welty TK, Chintu N, **Chi BH**, Wilfert CM, Shaffer N, Dabis F, Stringer JSA. Coverage of nevirapine-based services to prevent mother-to-child HIV transmission in 4 African countries. *JAMA*. 2010 Jul 21; 304(3): 293-302.
9. Palumbo P, Lindsey J, Hughes M, Cotton M, Bobat R, Meyers T, Bwakura-Dangarembizi M, **Chi BH**, Musoke P, Kamthunzi P, Schimana W, Purdue L, Eschleman S, Abrams E, Millar L, Petzold E, Mofenson L, Jean-Phillippe P, Violari A. Antiretroviral treatment for children with peripartum nevirapine exposure. *N Engl J Med*. 2010 Oct 14; 363(16): 1510-20.
10. **Chi BH**, Ellis GM, Chintu N, Cantrell RA, Sinkala M, Aldrovandi GM, Warriar R, Mbewe F, Nakamura K, Stringer EM, Frenkel LM, Stringer JSA. Intrapartum tenofovir and emtricitabine reduces low-concentration drug resistance selected by single-dose nevirapine for perinatal HIV prevention. *AIDS Res Hum Retroviruses*. 2009 Nov; 25(11): 1099-1106.

11. **Chi BH**, Chintu N, Cantrell RA, Kankasa C, Kruse G, Mbewe F, Sinkala M, Smith PJ, Stringer EM, Stringer JSA. Addition of single-dose tenofovir and emtricitabine to intrapartum nevirapine to reduce perinatal HIV transmission. *J Acquir Immune Defic Syndr*. 2008 Jun 1; 48(2): 220-3.
12. Stringer EM, **Chi BH**, Chintu N, Creek T, Ekouvie D, Coetzee D, Tih P, Boulle A, Dabis F, Shaffer N, Wilfert CM, Stringer JSA. Monitoring effectiveness of programs to prevent mother-to-child HIV transmission in lower-income countries. *Bull World Health Organ*. 2008 Jan; 86(1): 57-62.
13. Bolton-Moore C, Mubiana-Mbewe M, Cantrell RA, Chintu N, Stringer EM, **Chi BH**, Sinkala M, Kankasa B, Wilson CM, Wilfert CM, Mwango A, Levy J, Abrams EJ, Bulterys M, Stringer JSA. Clinical outcomes and CD4 cell response in children receiving antiretroviral therapy at primary health care facilities in Zambia. *JAMA*. 2007 Oct 24; 298(16): 1888-99.
14. **Chi BH**, Sinkala M, Mbewe F, Cantrell RA, Kruse G, Chintu N, Aldrovandi GM, Stringer EM, Kankasa C, Safrin J, Stringer JSA. Single-dose tenofovir and emtricitabine for reduction of viral resistance to non-nucleoside reverse transcriptase inhibitor drugs in women given intrapartum nevirapine for perinatal HIV prevention: an open-label randomized trial. *Lancet*. 2007 Nov 17; 370(9600): 1698-1704.
15. Stringer JSA, Zulu I, Levy J, Stringer EM, Mwango A, **Chi BH**, Mtonga V, Reid S, Cantrell RA, Bulterys M, Saag MS, Marlink RG, Mwinga A, Ellerbrock TV, Sinkala M. Rapid scale-up of antiretroviral therapy at primary care sites in Lusaka, Zambia: feasibility and early outcomes; *JAMA*. 2006 Aug 16; 296(7): 782-93.

D. Research Support

Ongoing support

1U01AI69455 (Stringer, PI)
NIH/ NIAID

5/13/07 – 11/30/13

Centre for Infectious Disease Research in Zambia HIV/AIDS Clinical Trials Unit

The long-term objective is to discover and implement HIV prevention and treatment strategies that will bring meaningful reductions in the HIV disease burden to the people of Zambia through a genuine Zambian-American collaboration. Role: IMPAACT network PI, George Health Centre CRS Leader, Investigator of Record

1R24TW008877-01(Mulla, PI)
NIH/ Fogarty International Center/ University of Zambia

9/27/10 – 8/31/11

Linked Award: Improving Maternal & Child Health Through Specialty Training in Zambia

Dr. Chi serves as co-director for the overall project and ensures proper implementation of proposed medical education activities. He will also oversee the research component, both for maternal and infant mortality surveillance and for medical education agenda. Role: Co-Program Director

Prime Agreement UM1 AI068632 (Chi, PI)
NIH/ NIAID/ Johns Hopkins University

3/1/10 – 5/31/13

International Maternal Pediatric Adolescent AIDS Clinical Trials Group (“IMPAACT”)

Dr. Chi serves as PMTCT Scientific Co-Chair for the IMPAACT network, provides direction to the committee’s research agenda; oversees protocol development; and facilitates new opportunities for new investigators. Role: PMTCT Scientific Committee Co-Chair

D43 TW001035 (Vermund/Chi, PI)
NIH/ Fogarty International Center

6/1/09 – 3/31/13

Vanderbilt -CIDRZ AIDS International Training & Research Program

Degree-earning training and short-course trainings for Zambian health professionals pursuing careers in HIV-related academic medicine. Role: Site PI, Faculty Collaborator

CDC-U2GPS000753-06 (Chi, PI) 10/1/07 – 9/31/12
Centers for Disease Control and Prevention
Expanding Access to VCT in Three Rural Districts of Zambia
Expansion of VCT services in the rural districts in Zambia's Western and Lusaka Provinces, using a home-based strategy that directly addresses two major barriers for HIV testing: access and human resources. Role: PI

CDC-U2GPS001421-04 (Chi, PI) 1/1/09 – 3/31/14
Centers for Disease Control and Prevention
Expansion of ART, TB, and VCT programs in Zambia
Expansion of services for tuberculosis screening and treatment, neonatal male circumcision, and cervical cancer screening across three provinces of Zambia Role: PI

1D43CA153784-01 (Parham, PI) 8/1/2010 – 7/31/13
NIH/NCI
Zambian Cervical Cancer Research Capacity Initiative
The Zambian Cervical Cancer Research Capacity Initiative is multidisciplinary training program to build research capacity within the University Teaching Hospital (UTH), the Cancer Diseases Hospital (CDH), and other public health institutions in Zambia. The focus of training will be around cervical cancer because it is the leading cause of cancer-related death among Zambian women. Role: Mentor and Training Advisor

Completed Support:
Doris Duke Charitable Foundation 2007061 (Chi, PI) 8/1/07 – 1/31/12
Impact of routine HAART in rural Zambia
Implementation and evaluation of routine antiretroviral therapy for the prevention of mother-to-child HIV transmission in the rural district of Kafue. Role: PI

Elizabeth Glaser Pediatric AIDS Foundation (Chi, PI) 9/1/07 – 2/29/12
Operations research for PMTCT
Development and evaluation of a set of non-virologic diagnostic algorithms to monitor HIV-exposed children of unknown infection status for treatment eligibility during the first 12 months of life. Role: PI

Fogarty IRSDA 2K01 TW06670-05 (Chi, PI) 2/01/09 – 1/31/10
A Training Program in International Women's Health
This was a one-year competitive renewal of the previous K-01 career development award (see below). Role: PI

Fogarty IRSDA 1K01 TW06670 (Chi, PI) 2/01/05 – 1/31/09
A Training Program in International Women's Health
Career development award to provide the awardee protected time to: (1) develop a broad base of understanding in the theoretical and practical aspects of clinical research; (2) gain experience in the conduct of methodologically-rigorous clinical research in the developing world; and (3) develop expertise in decision analysis and outcomes research. Role: PI

Doris Duke Charitable Foundation 2007061 (Chi, PI) 1/1/06 – 12/31/07
Operations Research for AIDS Care and Treatment in Africa (ORACTA)
Conversion of a large programmatic database for HIV care and treatment to one suitable for epidemiologic research. Three primary analyses are proposed to answer pressing questions in ART scale-up in sub-Saharan Africa. Role: PI