

Christina Mwachari CV2014-externalCURRICULUM VITAE

PERSONAL DETAILS

NAME: Christina Mwachari MBChB, MSc, MPH, PhD

Address: University of Maryland, Baltimore
K-REP Centre, 6th Floor, Wood Avenue, Kilimani
P.O. BOX 495-00606, Nairobi Kenya
Tel (Off): +254-738-840 374
Cell phone: 0722768515
E-mail address: cmwachari@gmail.com, cmwachari@mgic.org

Position: Laboratory Senior Technical Advisor, University of Maryland Programs, Kenya

EDUCATIONAL BACKGROUND

2004-2009: Jomo Kenyatta University of Agriculture and Technology, Nairobi

2001-2003: University of Washington, Seattle USA

1994-1995: London School of Hygiene and Tropical Medicine

1994-1995: Royal College of Physicians, London

1990: University of Nairobi
Certificate of Surgical Contraception

1989: University of Nairobi

1977-1982: Limuru Girls Secondary School

1970-1976: Nairobi South Primary School

2004-2009: PhD of Epidemiology

2001-2003: Master of Public Health (Epidemiology)

1994-1995: Master of Science (Medical Microbiology)
Diploma of the London School of Hygiene & Tropical Medicine (DLSHTM)

1984-1989: Bachelor of Medicine and Bachelor of Surgery (MBChB)

PROFESSIONAL QUALIFICATIONS

- 1- Doctor of Philosophy in Epidemiology – Jomo Kenyatta University of Agriculture and Technology, Nairobi- 2009
- 2- Master of Science in Public Health - University of Washington, Seattle, USA- 2003
- 3- Ethical Issues in international Health Research Program – Harvard University, John F. Kennedy School of government – 2000
- 4- Master of Science in Medical Microbiology- London School of Hygiene and Tropical Medicine -1996
- 5- Diploma in Tropical Medicine and Hygiene – Royal College of Physicians of London -1995
- 6- Diploma in Medical Microbiology - School of Hygiene and Tropical Medicine -1995
- 7- Bachelor in Medicine and Bachelor in Surgery - MBChB. University of Nairobi-Kenya -1989

PROFESSIONAL EXPERIENCE

March, 2010 to date: Laboratory Senior Technical Advisor, University of Maryland Programs, Kenya:

Overseeing laboratory services for the following PEPFAR-funded programs: Partnership for Advanced Clinical Education, AIDS Relief Care and Treatment Program, Partnership for Advanced Care and Treatment, Partnership in Advanced Care and Treatment, Centers of Excellence, Northern Arid Lands APHIA IMARISHA

2000-2010: Principal Investigator and Project Co-coordinator in the following studies:

The clinical course of HIV-1 disease in women on steroid hormone and non-hormone contraceptives in Nairobi, Kenya, Harare, Zimbabwe and Chula, Thailand (Enrollment and follow up at the Research clinic in KEMRI with screening sites at 5 Nairobi City Council Health Centers) (WHO funded Project 96902)

Randomized placebo controlled trial on treatment of acute bronchitis with amoxicillin. (Enrollment and follow up at Rhodes Nairobi City Council) WHO/Rockefeller Foundation funded project.

Evaluation of prognostic factors and outcome of community acquired pneumonia in HIV infected and uninfected adults presenting to outpatients in Nairobi. (Screening site and referrals at Mbagathi District Hospital) NIH funded study

A pilot study evaluating the effects of the levonorgestrel releasing intrauterine device on genital HIV shedding in HIV-1 infected women. NIH funded study

An evaluation of Isoniazid Preventive Therapy among HIV-1 infected children in Nyanza and Nairobi

2000: Principal Investigator in a study evaluating the WHO clinical care guidelines in management of respiratory tract infections and gastrointestinal infections in a cohort of HIV-infected adults. Funded by The Rockefeller Foundation

1996-1997: Co-investigator and recruiting clinician in the autopsy study in HIV-infected and uninfected adults admitted in the Medical wards at the Kenyatta National Hospital, Nairobi.

1993: Recruiting clinician in the post-partum endometritis study which described the bacterial etiology of endometritis at the Pumwani Maternity Hospital.

1992: Assistant Research Officer attached to the Wellcome Trust Research Laboratory
Research activities: Recruiting clinician and processing specimens for study on pneumococcal disease in HIV- infected and uninfected adults at the Kenyatta National Hospital Outpatient Department.

Principal Investigator for a study describing etiology of chronic diarrhea in hospitalized HIV-infected adults admitted at the Kenyatta National Hospital. Recruiting clinician and performed all the microbiology.

Co-Investigator: recruited and performed mycobacteriology on blood samples for a study on atypical mycobacteraemia in HIV- infected adults admitted at the Kenyatta National Hospital.

Co-investigator: performed microbiology on urine specimens for a study describing the etiology of bacteriuria in a cohort of predominantly HIV-infected women in Nairobi.

Professional Positions Held

Medical Officer: 1989-1990

Senior Medical Officer: 1990-1991

Assistant Research Officer: 1992-1996

Research Officer: 1997-2001

Senior Research Officer: 2002-2010

Co-Director FACES Program, Nairobi: 2004-2010

Acting Director CRDR: Oct-Nov, 2008

Laboratory Senior Technical Advisor for the University of Maryland Programs in Kenya, 2010 to date

External Examiner at the Kenyatta University, 2013

Pre-Doctoral Students Mentored/Supervised

Katrine Lofberg, a 2nd year medical student who worked in Nairobi and wrote manuscript on HIV infected women's knowledge on antiretroviral therapy.

Jeremy Penner, a 4th year McMaster University medical student in Nairobi for 5 months
Videlis Nduba, MPH student at the University of Washington, USA
Mrs Maina, a 2nd year MSC student at Kenyatta University
Lawrence Thiongo, final year MSC student at Jomo Kenyatta University for Agriculture and Technology

Mary Mutisya, final year MSC student at Jomo Kenyatta University for Agriculture and Technology

Jane Ongango, Second year PhD degree student in Epidemiology student at Jomo Kenyatta University for Agriculture and Technology

Sophie Matu, Second year PhD degree student in Medical Microbiology at Jomo Kenyatta University for Agriculture and Technology

Medical students mentored at the FACES program in Nairobi 2001-2009

Diana Ndirangu	University of Nairobi, Kenya
Joseph Nkuranga	University of Nairobi, Kenya
Solomon Mutua	University of Nairobi, Kenya
Susan Karanja	University of Nairobi, Kenya
Simon Wachira	University of Nairobi, Kenya
Cecilia Njoga	University of Nairobi, Kenya
James Wagura	University of Nairobi, Kenya
Jackie Odhiambo	University of Nairobi, Kenya
Debbie Fromstein	University of Tulane
Jackie Mwendwa	University of Oklahoma Department of Public health
Tamara Sally	University of British Columbia (UBC)
Caitlin Swannson	University of British Columbia (UBC)

MEMBERSHIP IN PROFESSIONAL COMMITTEES

Member of the World Bank East African Community task force on new laboratory diagnostic tests

Member of the Data Monitoring Committee of a Clinical trial
Mater Hospital Infection Control Committee
Mater Hospital Drug and Therapeutic Committee
Kenya Medical Women's Association
Center for Respiratory Diseases Center Scientific Committee
Nairobi Hospital Infection Control Committee
Nairobi Hospital Antibiotic Stewardship Committee
Kenya Association of Clinical Pathologists

SCHOLARSHIPS

2010

International Scholarship Awardee, CROI 2010

2001-2002

Received scholarship from "The international AIDS Research and training program" attended University of Washington, MPH epidemiology.

1999

Received a scholarship from the University of Washington, International AIDS Research and Training program (visiting scholar)

1994-1995

Received scholarship from the British council, attended the London School of Hygiene and Tropical medicine, Msc Medical Microbiology. Thesis: Investigation of a long PCR technique for the amplification of the HIV-1 genome.

AREAS OF INTEREST

Infectious Disease Research, HIV prevention, care and treatment, Reproductive health issues in HIV-infected women

CONFERENCES ATTENDED

2010

41st IUATLD World Conference on Lung Health, Berlin, Germany

2010

17th Conference on Retroviruses and Opportunistic Infections
San Francisco, USA

2003

Fertility Regulation and systemic Hormones in HIV-Infected and at-risk women
Washington DC

2002

XIV International AIDS Conference-Barcelona
Theme: Knowledge and Commitment for Action.

2001

Meeting on AIDS Care in Africa
Sheraton Kampala Hotel
Theme: The way forward
Presentation:
Disease spectrum and priority Research as part of the Working group I: Syndromic management

2000

Quality of care-Kampala Uganda
Presentation:
Better practices in respiratory health in HIV infected adults: Use of Modified World Health Organization (WHO) clinical guideline for management of respiratory tract infection (RTI) in HIV infected adults.

1999

XIII International AIDS Conference-Durban
Presented: abstract on Evaluation of the WHO Clinical Management Algorithm for Respiratory Tract Infection among a cohort of symptomatic HIV-1 Infected Adults in Nairobi, Kenya.

1998

XII International AIDS Conference – Geneva
Presentation:
Evaluation of WHO Clinical Algorithm for Respiratory tract Infection among a cohort of symptomatic HIV-1 infected Adults in Nairobi, Kenya.

1998

19th African Health Sciences Congress -Arusha
Presentation:
Evaluation of WHO Clinical Algorithm for chronic diarrhea among a cohort of symptomatic HIV-1 infected Adults in Nairobi, Kenya

1998

29th World Conference of the IUATLD Global congress on Lung Health- Bangkok
Presentation:
Pathology found at autopsy in HIV-1 positive and negative acute medical patients in Nairobi, Kenya.

WORKSHOPS

2000 JICA/KEMRI

Facilitated in the third country training program course on Blood Screening for Viral Hepatitis and HIV/AIDS

ABSTRACTS

L Dillabaugh, C Cohen, C Nyagah, L sanguli, **C Mwachari**. Utility of chest radiograph (CXR) in screening HIV-infected children for tuberculosis (TB), IUATLD Global Congress on Lung Health, Berlin, 2010.

Mwachari C, Coleman J, Balkus J, Sanguli L, Muliro A, Agnew K, Coombs R, Cohen C, Hitti J. Effect of the Levonorgestrel on Endocervical HIV RNA Shedding among HIV-infected Kenyan Women, San Francisco, January, 2010.

Rana F, **Mwachari C**, Hawken M, Ng'ang'a L, Githui W, Bhatta S, Lucas S. Pathology found at autopsy in HIV-1 positive and negative acute medical patients in Nairobi, Kenya. 29th World Conference of the IUATLD Global Congress on Lung Health, Bangkok, 23 – 26 Nov. 1998.

Mwachari C, Ng'ang'a L, Kimari J, Odhiambo J, Cohen CR. Evaluation of the WHO Clinical Management Algorithm for Respiratory Tract Infection among a cohort of symptomatic HIV-1 Infected Adults in Nairobi, Kenya. 12th World AIDS Conference, Geneva, June 1998.

Mwachari C, Muyodi J, Nderitu W, Waiyaki P, Cohen CR. Evaluation of the WHO Clinical Management Algorithm for chronic diarrhea among a cohort of symptomatic HIV-1 Infected Adults in Nairobi, Kenya - 19th African Health Sciences Congress, Arusha, April, 1998.

Gilks CF, **Mwachari C**, Simani P, Otieno L. A case control study of HIV infection and pneumococcal pneumonia in KNH, Nairobi. Ninth International Conference on AIDS, Berlin July 1993 (Abstract WS-BO8-2).

PUBLICATIONS

Ong'ang'o JR, **Mwachari C**, Kipruto H, Karanja S The effects on tuberculosis treatment adherence from utilising community health workers: a comparison of selected rural and urban settings in Kenya. *PLoS One*. 2014 Feb 18;9(2):e88937. doi: 10.1371/journal.pone.0088937. eCollection 2014.

Coleman JS, **Mwachari C**, Balkus J, Sanguli L, Muliro A, Agnew K, Coombs RW, Cohen CR, Hitti J. Effect of the levonorgestrel intrauterine device on genital HIV-1 RNA shedding among HIV-1-infected women not taking antiretroviral therapy in Nairobi, Kenya. *J Acquir Immune Defic Syndr*. 2013.

Mitchell C, Balkus JE, Fredricks D, Liu C, McKernan-Mullin J, Frenkel LM, **Mwachari C**, Luque A, Cohn SE, Cohen CR, Coombs R, Hitti J. Interaction between lactobacilli, bacterial vaginosis-associated bacteria, and HIV Type 1 RNA and DNA Genital shedding in U.S. and Kenyan women. *AIDS Res Hum Retroviruses*. 2013.

Mitchell C, Balkus JE, McKernan-Mullin J, Cohn SE, Luque AE, **Mwachari C**, Cohen CR, Coombs R, Frenkel LM, Hitti J. Associations between genital tract infections, genital tract inflammation, and cervical cytobrush HIV-1 DNA in US versus Kenyan women. *J Acquir Immune Defic Syndr*. 2013.

Lewis Kulzer J, Penner JA, Marima R, Oyaro P, Oyanga AO, Shade SB, Blat CC, Nyabiage L, **Mwachari CW**, Muttai HC, Bukusi EA, Cohen CR. Family model of HIV care and treatment: a retrospective study in Kenya. *J Int AIDS Soc.* 2012 Feb 22;15(1):8.

Luque AE, Hitti J, **Mwachari C**, Lane C, Messing S, Cohn SE, Adler D, Rose R, Coombs R. Prevalence of human papillomavirus genotypes in HIV-1-infected women in Seattle, USA and Nairobi, Kenya: results from the Women's HIV Interdisciplinary Network (WHIN). *Int J Infect Dis.* 2010.

Videlis N Nduba, **Christina W Mwachari**, Amalia S Magaret, David R Park, Andrew Kigo, Thomas M. Hooton, Craig R Cohen. Placebo found Equivalent to Amoxicillin for Treatment of Acute Bronchitis in Nairobi, Kenya: A Triple-Blind Randomized Equivalence Trial. *Thorax* 2008.

Mwachari C, Nduba V, Nguti R, Park DR, Sanguli L, Cohen CR. Validation of a new clinical scoring system for Acute Bronchitis. *Int J Tuberc Lung Dis.* 2007 Nov;11(11):1253-9.

Coleman JS, Hitti J, Bukusi EA, **Mwachari C**, Muliro A, Nguti R, Gausman R, Jensen S, Patton D, Lockhart D, Coombs R, Cohen CR. Infectious correlates of HIV-1 shedding in the female upper and lower genital tracts. *AIDS.* 2007 Mar 30; 21(6):755-9.

Mwachari C, Meier A, Muyodi J, Nderitu W, Waiyaki P, Cohen CR. Chronic diarrhea in HIV-1 infected adults in Nairobi, Kenya: Evaluation of risk factors and the WHO treatment algorithm. *AIDS.* 2003 Sep 26; 17(14):2124-6.

Criniti A, **Mwachari C**, Amalia Meier, Videlis Nduba, Lucy Sanguli, James K Ngumo, Craig R Cohen. Association of Hormonal Contraception and HIV-Seroprevalence in Nairobi, Kenya. *AIDS.* 2003 Dec 5;17 (18):2667-9.

C Mwachari, B Shepherd, C. Omondi, J Odhiambo, C. Cohen Mortality and Burden of disease in a cohort of HIV seropositive adults in Nairobi, Kenya. *Int J STD AIDS.* 2004 Feb;15(2):120-6.

J Penner, A. Meier, **C Mwachari**, F Ayuka, B Muchina, J Odhiambo and CR Cohen Risk factors for pneumonia in urban dwelling women: A case-control study in Nairobi Kenya, *JAIDS* 32: 223-228; 2003

Mwachari C, Cohen CR, Meier A, Nganga L, Kimari J, Odhiambo J,. Respiratory tract infection in HIV-1 infected adults in Nairobi, Kenya: evaluation of risk factors and the WHO treatment algorithm. *J Acquir Immune Defic Syndr.* 2001; 27: 365-371

FS Rana, MP Hawken, **C. Mwachari**, SM Bhatt, FAbdullah, LW Nganga, C.Power, WA Githui, JDH Porter, and SB Lucas Autopsy Study of HIV-1 positive and HIV-1 Negative Adult Medical patients in Nairobi *Journal of Acquired Immune Deficiency Syndromes* 24: 23-29: 2000

Mwachari C, B.I.F Batchelor, Paul J, P.G. Waiyaki, Gilks C Chronic Diarrhoea among HIV infected Adult patients in Nairobi, Kenya, *Journal of infection* (1998) 37, 48-53

FJ Belda, **Mwachari C**, Hawken M, K.L Barlow, JP Clewely, HIV-1 subtype in Nairobi, Kenya. *Journals of Acquired Deficiency Syndromes and Human Retrovirology* 16:63-64; 1997

Ojoo J, Gilks C, Paul J, Batchelor B, Amir M, **Mwachari C**, Gachihi G, Waiyaki P. Bacteriuria in a cohort of predominantly HIV positive female commercial sex workers in Nairobi, Kenya, *Journal of Infection* 33, 33-37: 1996

Gilks CF, Brindle R, **Mwachari C**, Batchelor B, Bwayo J, Kimari J, Arbeit R, Fordham von Reyn C. Disseminated mycobacterium avium infection among HIV infected patients in Kenya. *J.AIDS Hum. Retro* 8 (2): 195-198; 1995

REFEREES

1) Craig R. Cohen, MD, MPH
Professor
Department of Obstetrics, Gynecology and Reproductive Sciences
University of California, San Francisco

2) Dr. Lucy Muchiri, PhD
Pathologist
University of Nairobi

3) Dr. Amukoye MBChB, MMed
Director
Center for Respiratory Disease Research
KEMRI