CURRICULUM VITAE

Christopher Curtis Whalen, M.D., M.S.

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Birth date: 19 June, 1956

Married: Lauren S. Nagashima-Whalen, M.D.

Children: Peter (9/11/86), Matthew (12/12/89), Lily (11/18/97)

**Education:**

1974 – 1978 Stanford University, AB English, French Literature

1980 – 1984 Case Western Reserve University School of Medicine, M.D.

1989 – 1992 Case Western Reserve University, M.S. Epidemiology and Biostatistics

**Medical Training:**

1984-1985 Intern, Internal Medicine, University Hospitals of Cleveland

1985-1987 Resident, Internal Medicine, University Hospitals of Cleveland

1987-1988 Fellow, General Internal Medicine (year 1), University Hospitals of Cleveland

1988-1989 Chief Resident, Internal Medicine, University Hospitals of Cleveland

1989-1990 Fellow, General Internal Medicine (year 2), University Hospitals of Cleveland

1992-1994 Fellow, Infectious Diseases, University Hospitals of Cleveland

**Professional Appointments:**

2019 – present Karen and Jim Holbrook Professor of Global Health

2016 – present Director, Global Health Institute, College of Public Health, University of Georgia

2014 – 2015 Interim Head, Department of Epidemiology and Biostatistics, College of Public Health, University of Georgia

2012 – present Distinguished Research Professor, University of Georgia

2010 – 2019 Ernest Corn Professor of Infectious Disease Epidemiology, College of Public Health University of Georgia

2008 – present Professor, Department of Epidemiology and Biostatistics (with tenure), College of Public Health, University of Georgia

2005 – 2008 Professor, Department of Epidemiology and Biostatistics, Case Western Reserve University

1999 Tenure awarded, Case Western Reserve University

1998 – 2005 Associate Professor, Department of Epidemiology and Biostatistics, Case Western Reserve University

1994 – 1998 Assistant Professor, Department of Epidemiology and Biostatistics, Case Western Reserve University

1990 – 1993 Assistant Professor, Department of Medicine, Case Western Reserve University

**Licensure and Certification:**

1985 Ohio Medical License: 35-05-3040,

1987 American Board of Internal Medicine, Diplomate

1996 - 2016 Board Certified, Infectious Diseases, Diplomate

**Membership in Medical Societies:**

 Society for Epidemiologic Research

 Infectious Disease Society of America

 American Epidemiological Society

**Honors and Awards:**

1984 Alpha Omega Alpha, Case Western Reserve University School of Medicine

1991 Junior Faculty Research Award, Society of General Internal Medicine

1997 Nominee for Clinical Teacher of the Year Award, Department of Medicine, Case Western Reserve University School of Medicine

1998 John S. Diekhoff Award for Distinguished Graduate Teaching, Graduate Studies Program, Case Western Reserve University

2002 Nominee for Kaiser-Permanente Award for Excellence in Teaching, Case Western Reserve University School of Medicine

2004 Elected to American Epidemiological Society

2008 Teacher of the Year, Department of Epidemiology and Biostatistics, Case Western Reserve University, School of Medicine

2009 Invited Speaker, George Naff Annual Lecture, Case Western Reserve University

2009 Delta Omega National Honorary Society in Public Health

2010 Ernest Corn Professor in Infectious Disease Epidemiology, University of Georgia

2011 Award for Excellence in Research, College of Public Health, University of Georgia

2012 Distinguished Research Professor, University of Georgia

2017 Elizabeth Hurlock Beckman Award, Elizabeth Hurlock Beckman Award Trust

2019 Karen and Jim Holbrook Professor of Global Health

2019 George W. Comstock Lecture, Johns Hopkins University School of Medicine

**Professional Service:**

Study Sections, Review Groups and Special Emphasis Panels:

2021 Co-chair, International and Cooperative – 1 Study Section (PAR-19-098)

 Population Sciences and Epidemiology Integrated Review Group

 National Institutes of Health, Bethesda, MD

 March 9 – 10, 2021

2020 51st Union World Conference on Lung Health, abstract review

 International Union Against Tuberculosis and Lung Disease (The Union)

 Paris, France

 May 2020

2020 NIAID Special Emphasis Panel (PAR-19-281/PAR-18-633)

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 April 2020

2020 NIAID New Innovators Awards (DP2; PAR-19-296)

National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 March 2020

2019 Chair, Clinical Trial Implementation Cooperative Agreement (UO1 Clinical Trial).

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 August 2019

2018 Single-site Investigator-Initiated Clinical Trials (R61/R33)

 Special emphasis panel, National Heart, Lung, Blood Institute

 National Institutes of Health, Bethesda, MD

 June 2018

2017 Clinical Research Career Development Fellowship

 The Wellcome Trust

 Mar 2017

2017 Human Heredity and Health in Africa (H3Africa) Coordinating Center

 National Human Genome Research Institute

 National Institutes of Health

 Mar 2017

2014 International Research in Infectious Diseases (IRIDA)

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 Nov 2014

2014 NIMH Research Education Mentoring Programs for HIV/AIDS Research (R25)

 National Institute of Mental Health

 National Institutes of Health, Bethesda, MD

2014 Clinical Research and Field Studies of Infectious Diseases, ad hoc

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 Oct 2014

2014 Chair, Special Emphasis Review Committee - International Centers for Infectious Disease Research (ICIDR)

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 July, August 2014 (two stage review)

2011 Dissemination and Implementation Research in Health (ad hoc reviewer)

Healthcare Delivery and Methodologies Integrated Review Group

 Center for Scientific Review

 National Institutes of Health, Bethesda, MD

 23 Feb 2011, Sep 2011

2010 – 2017 AIDS Research Review Committee (ad hoc reviewer)

 Division of AIDS

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 November 2010, July 2011, March 2012, March 2015, March 2017

2007 - 2015 Global Infectious Disease Training Programs

 Fogarty International Center

 National Institutes of Health, Bethesda, MD

 April 1, 2007 and Mar 2011, March 2015

2004 – 2009 AIDS Review Committee (Study Section), chartered member

 Division of AIDS

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

2005 Loan Repayment Program

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 April 27, 2005

2005 Chair, Special Emphasis Panel

 International Clinical Sciences Support, RFP – 05-07

 Division of Microbiology and Infectious Diseases

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

 February 18, 2005

2004 Microbiology and Infectious Disease Review Committee, ad hoc member

 Division of Microbiology and Infectious Diseases

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

2004 Chair, Special Emphasis Panel

 International Bioethics Education and Career Development Award

 Fogarty International Center

 National Institutes of Health, Bethesda, MD

2003 – 2004 Reviewer, International research Development Award

 The Wellcome Trust

 London, UK

1999 – 2003 Microbiology and Infectious Disease Review Committee (Study Section)

 Division of Microbiology and Infectious Diseases

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

2002 Special Emphasis Panel for NeuroAIDS Studies

 Division of AIDS

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

2001, 2002 Special Emphasis Review Panel for Comprehensive International Program of Research on AIDS (CIPRA)

 Division of AIDS

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

2001 Special Emphasis Review Committee for the International Research Scientists

 Development Awards of the Fogarty International Center

 Fogarty International Center

 National Institutes of Health, Bethesda, Maryland

1999 Special Emphasis Review Committee for International Centers for Infectious Disease Research (ICIDR)

 National Institute of Allergy and Infectious Diseases

 National Institutes of Health, Bethesda, MD

Advisory Committees, Consultations, and other Professional Activities:

2019 – 2020 GHLegacy Planning Committee, Smallpox Eradication Conference

 Georgia Global Health Alliance, Atlanta, GA

 June 2020 (postponed because of SARS Cov2 pandemic)

2019 External grant reviewer, Columbia University Mailman School of Public Health, May 2019

2018 External Reviewer, Committee on Appointments and Tenure, Boston University School of Medicine, Aug 2018

2018 External Reviewer, Committee on Appointments, Promotions, and Tenure, Case Western Reserve University School of Medicine, Aug 2018

2016 – present Executive Board, founding member, Georgia Global Health Alliance

2015 External Reviewer, Committee on Promotion and Tenure, University of California, San Francisco, School of Medicine, April 2015

2015 External Reviewer, Promotion and Tenure Committee, Johns Hopkins Bloomberg School of Public Health, April 2015

2014 – 2019 Ethiopia-Emory Fogarty TB Research and Training Program

 Consultant

2011 Reviewer for the Office of the Vice President for Research

 University of Minnesota

 Internal Infrastructure Investment Initiative (i3)

 April – May 2011

2001 Consultant for World Health Organization

 Global Forum on TB Vaccines: Research and Development

 Department of Vaccines and Biologicals, Vaccine Development

 World Health Organization, Geneva Switzerland

2001 Tuberculosis Vaccine Initiative Advisory Committee, Member

 Initiative for Vaccine Research

 Department of Vaccines and Biologicals, Vaccine Development

 World Health Organization, Geneva Switzerland

2000 Invited Participant

 Vaccines for HIV/AIDS, Malaria, and Tuberculosis: Addressing the Presidential Challenge

 National Institutes of Health, Bethesda, Maryland

1999 – present Technical Advisor, Ugandan Society for Health Scientists

 Kampala, Uganda

1999 Co-Chairman of Meeting Workshop

 Non-Antiretroviral Interventions to Slow HIV Disease Progression and Benefit Non-HIV-Infected Persons

 Second Conference on Global Strategies for Prevention of HIV Transmission from Mothers to Infants

 Montreal, Canada

1999 Consultant for World Health Organization

 Working Group on Clinical Trials of New TB Vaccines

 Department of Vaccines and Other Biologicals

 World Health Organization, Geneva, Switzerland

1998 Consultant for the Centers for Disease Control and Prevention

 CDC Conference on Screening and Preventive Therapy

 Centers for Disease Control and Prevention, Division of Tuberculosis Elimination

 Atlanta, GA

1998 Consultant for World Health Organization

 TB Preventive Chemotherapy in People Living with HIV/AIDS

 Global Tuberculosis Programme

 World Health Organization, Geneva, Switzerland

1998 – 2000 Reviewer of abstracts to the World AIDS Conference

1998 Steering Committee Member, Fogarty Workshop on International HIV/AIDS

 Prevention Research Opportunities

 AIDS Research Institute, University of California, San Francisco

1997 Consultant for the Centers for Disease Control and Prevention

 CDC Conference on HIV-Associated Tuberculosis

 Centers for Disease Control and Prevention, Division of Tuberculosis Elimination

 Atlanta, GA

1997 Rapporteur, International Conference on TB Vaccine Development, July 25, 1997

 Tuberculosis Vaccines: How Close to Human Testing?

 Sponsored by National Institutes of Allergy and Infectious Diseases

 Case Western Reserve University, Cleveland OH

1997 Rapporteur, Tuberculosis Diagnostics Workshop, July 27, 1997

 Sponsored by World Health Organization

 Case Western Reserve University, Cleveland OH

1997 Contributor to the Certification and Recertification Programs, 1997

 American Board of Internal Medicine

Committees or Working Groups:

2020 – 2019 Search Committee for Assistant/Associate Professor of Infectious Diseases, Department of Epidemiology and Biostatistics, College of Public Health University of Georgia

2018 – 2019 Student Affairs Committee, Department of Epidemiology and Biostatistics, College of Public Health University of Georgia

2018 – 2019 2025 Strategic Planning Committee, University of Georgia

2018 – 2019 Member, University Search Committee for Dean, College of Public Health

2015 – present Committee on Promotions and Tenure, College of Public Health, University of Georgia

2015 – 2020 Data Safety Monitoring Board, wCDSMP study, University of Georgia

2012 Chair, Program Review Committee for Office of Research Compliance, Office for the Vice President for Research, Program Review and Assessment Committee, University of Georgia

2011 – 2012 Chair, Departmental Search Committee, Department of Epidemiology and Biostatistics, University of Georgia

2011 – 2012 Chair, Program Review Committee for Department of Environmental Health Sciences, Program Review and Assessment Committee, University of Georgia

2011 – 2013 Special Professorship Committee, University of Georgia

2010 – 2011 Bylaw Committee, College of Public Health, University of Georgia

2009 Search and Screening Committee for the Associate Provost for International Programs, Office of the Senior Vice President for Academic Affairs and Provost, University of Georgia

2008 – present Committee on Promotions and Tenure, Department of Epidemiology and Biostatistics, College of Public Health, University of Georgia

2008 – 2010 Research Advisory Council, Office of the Vice President for Research, University of Georgia

2008 – 2009 Review Committee for Center for Tropical and Emerging Global Diseases, University of Georgia

2008 Strategic Planning for School of Medicine, International Programs Working Group

2007 – 2008 Member, CTSTP Steering Committee member

2003 – 2006 Committee on Appointments, Promotions and Tenure, Case Western Reserve University School of Medicine

2003 – 2004 Undergraduate Public Health Working Group

2001 – 2008 Core Director, Epidemiology and Biostatistics

 Center for AIDS Research (CFAR), Case Western Reserve University

1997 – 2008 Committee on Appointments, Promotions and Tenure, Department of Epidemiology and Biostatistics, Case Western Reserve University School of Medicine

1995 – 1998 Security Committee, Case Western Reserve University

1994 – 2008 Student Selection Committee, Department of Epidemiology and Biostatistics

1994 –2008 Committee Member for the Tuberculosis Research Unit

 Case Western Reserve University

1994 – 2008 Working Group Leader

 Center for AIDS Research (CFAR), Case Western Reserve University

 International Working Group

1996 – 1998 Education Committee for the Infectious Diseases Research Institute, Department of Medicine

1996 – 2002 Graduate Studies Committee, Department of Epidemiology and Biostatistics

 Chairman, 1997 - 2002

1996 – 1997 HIV/Opportunistic Infection - Working Group

 AIDS Clinical Trials Group, Complications of HIV Disease Research Agenda Committee Chairman John Phair, MD

1988 – 1990 Residency Education and Certification Committee, Department of Medicine

1989 – 1990 Quality Assurance Committee, Department of Medicine, University Hospitals of Cleveland

1987 – 1989 Medical Student Recommendation Committee, Department of Medicine, Case Western Reserve University

1987 – 1990 Intern Selection Committee, Department of Medicine, Case Western Reserve University

Reviewer for Medical Journals or Societies (cumulative):

 American Journal of Epidemiology

 American Journal of Respiratory and Critical Care Medicine

 American Journal of Tropical Medicine and Hygiene

 American Thoracic Society

 Annals of Epidemiology

 Archives of Family Medicine

 Clinical Infectious Diseases

 International Journal of Tuberculosis and Lung Disease

 Journal of the Acquired Immunodeficiency Syndrome (JAIDS)

 Journal of the American Medical Association

 Journal of General Internal Medicine

 Journal of Infectious Diseases

 New England Journal of Medicine

 PLoS ONE

 The Lancet

 Tubercle and Lung Disease

Administrative Activity:

2016 – present Director, Global Health Institute, College of Public Health, University of Georgia

2009 – 2016 Graduate Studies Coordinator for Epidemiology, Department of Epidemiology and Biostatistics, College of Public Health, University of Georgia

2008 – 2010 Head (2009 – 2010) Curriculum and Academic Affairs Committee, College of Public Health, University of Georgia

2004 – 2009 Director, Fogarty International Clinical Research Scholars Program, Case Western Reserve University

2002 – 2008 Head, Division of Epidemiology, Department of Epidemiology and Biostatistics, Case Western Reserve University School of Medicine

2002 – 2008 Director, Center for the Modern Epidemiology of Infectious Disease, Department of Epidemiology and Biostatistics, Case Western Reserve University School of Medicine

2002 – 2008 Director, Epidemiology and Biostatistics Core, Center for AIDS Research, Case Western Reserve University School of Medicine

1995 – 2014 Director, AIDS International Training and Research Program, Case Western Reserve University and the University of Georgia

1992 – 1993 Associate Director of Research Fellowship, Division of General Internal Medicine, Department of Medicine University Hospitals of Cleveland and Veterans Affairs Medical Center

1991 – 1992 Associate Firm Director, Wade Park Veterans Affairs Medical Center

1987 – 1988 AIDS Task Force, University Hospitals of Cleveland

1986 – 1987 Institutional Review Board, University Hospitals of Cleveland

Hospital Infection Control Activities:

1993 Infection Control Committee, Veterans Affairs Medical Center

 Statistical analysis of hospital data (10 hrs)

1994 Tuberculosis Care Path, University Hospitals of Cleveland, committee member

Medical and Graduate Student Activities:

2007 ShowCase Research Day

 Judge of posters

 Case Western Reserve University

 11 April 2007

1996 Irwin H. Lepow Student Research Day

 Judge for student presentations (5 hrs)

1996 Basic Science Mentor Program (2 students)

**Invited Presentations and Lectures:**

1992 Reliability of Symptoms in Clinical Medicine

 Medical Grand Rounds, January 1992

 Case Western Reserve University School of Medicine

1992 Epidemiologic Methods in the Study of HIV Infection in Africa

 Makerere University, Uganda, March 1992

 Sponsored jointly by the Fogarty International Center and World AIDS Foundation

1992 Global Epidemiology of Tuberculosis

 Tuberculosis Research Symposium

 Case Western Reserve University, November 1992

1993 Statistical Methods in Epidemiology

 Makerere University, Kampala, Uganda, January 1993

 Sponsored by Fogarty International Center

1994 Tuberculosis in the Elderly: The Forgotten Epidemic (?)

 Topics in Geriatric Medicine

 Case Western Reserve University, February 1994

 Sponsored by the Western Reserve Geriatric Education Center

1994 Tuberculosis: The re-emergence of an old pathogen.

 International Forum on Internal Medicine, Mexico City, Mexico

 August 25 - 27, 1994,

1995 Workshop on Clinical Research Proposal Development and Project Management

 Research Design and statistical analysis

 Case Western Reserve University and Makerere University, Institute of Public Health

 Kampala, Uganda, January 1995

 Sponsored by the University Development Linkages Program, USAID

1995 Interactions between HIV and Tuberculosis: Studies in Uganda

 Thirtieth Joint Conference on Parasitic Disease, 1995

 US Japan Cooperative Medical Science Program

 Case Western Reserve University

 Cleveland, OH, July 20 - 22, 1995

1996 HIV/TB Clinical Care: Approaches to Controversial Issues

 Society for General Internal Medicine, l9th Annual National Meeting

 Washington, DC, May 2, 1996

1996 Vitamin A deficiency and mortality in HIV-infected Ugandan Adults

 (With Peter Langi, Fogarty Fellow)

 AIDS International training and research Program, Fogarty International Center

 Office of AIDS Research, Natural History and Epidemiology Section

 Washington, DC, May 16, 1996

1997 Impact of Tuberculosis on HIV Infection

 Invited State-of-the-Art Presentation

 CDC Conference on HIV-Associated Tuberculosis

 Decatur, GA, September 8-9, 1997

1997 Impact of Tuberculosis on HIV Infection in Africa

 Tuberculosis in Africa: The Promise of Scientific Advances

 Kampala, Uganda, September 23-24, 1997

1998 Impact of Tuberculosis on HIV Infection in Africa

 Meeting on TB Preventive Therapy in People Living with HIV/AIDS

 World Health Organization

 Geneva, Switzerland, February 18 – 20, 1998

1998 HIV-1 and TB Interactions

 Departmental Seminar, Epidemiology and Biostatistics

 Case Western Reserve University, April 23, 1998

1998 Evaluating TB Vaccine Efficacy in Household Contacts

 Tuberculosis Vaccine Development and Evaluation: 1998 International Symposium

 Sponsored by Centers for Disease Control and the National Institutes of Health

 San Francisco, CA, August 26 – 28, 1998

1998 Tuberculosis in the Elderly

 Topics in Geriatric Medicine

 Western Reserve Geriatric Education Center, Case Western Reserve University

 November 6, 1998

1998 Prevention of Tuberculosis

 36th Annual Meeting of the Infectious Diseases Society of America

 Denver, CO, November 12, 1998

1999 Preventive Therapy for Tuberculosis: Who should get it?

 Medical Grand Rounds

 Department of Medicine, Case Western Reserve University

 February 23, 1999

1999 Transmission of *M. tuberculosis* in Households

 International Forum on Tuberculosis

 Invited speaker for World Tuberculosis Day

 Institutio Nacional de Enfermedades Respiratorias

 Mexico City

 March 24, 1999

1999 Tuberculosis Vaccine Field Trials in the ‘Best of All Possible Worlds’

 Working Group on Clinical Trials of New TB Vaccines

 Immunology of Mycobacteria (IMMYC) Subcommittee

 World Health Organization, Vaccines and Other Biologicals

 Geneva, Switzerland

 April 19,1999

1999 Interaction of HIV and *M. Tuberculosis*: a Summary of Current Data

 Workshop on HIV Mortality and Tuberculosis

 30th Meeting of the International Union Against Tuberculosis and Lung Disease, World Conference on Lung Health

#  Madrid, Spain,

 September 14, 1999

1999 Cohort Studies

 Didactic Curriculum on Clinical Research for Fellows and Faculty

 Department of Medicine, Case Western Reserve University

 November 9, 1999

1999 Risk-Benefit Assessment of International Research: Examples from Uganda

 Ethical Challenges of International Research in Developing Countries: Risk-Benefit Analysis

 National Bioethics Advisory Committee

 Washington, D.C., December 3, 1999

1999 HIV and Tuberculosis Epidemiology and Interaction

 World AIDS Day 1999

 Francis Payne Bolton School of Nursing

 Case Western Reserve University

 Cleveland, OH, December 1, 1999

2000 Tuberculosis Transmission and Prevention Studies in Uganda

 Department of International Health Seminar

 Johns Hopkins University Tuberculosis Center

 Johns Hopkins University, School of Medicine

 Baltimore, MD, May 16, 2000

2000 Tuberculosis Transmission in Ugandan Households

 Boston University School of Public Health

 Boston University, Boston MA, September 18, 2000

2000 Tuberculosis International Training Programs

 Annual Directors’ Meeting

 Fogarty International Center, National Institutes of Health

 Washington, D.C., October 26, 2000

2000 HIV in Africa

 World AIDS Day 2000

 Francis Payne Bolton School of Nursing

 Case Western Reserve University

 Cleveland, OH, December 1, 2000

2002 HIV/TB Co-Pathogenesis: Mechanisms and Implications of Treatment

 Tuberculosis and HIV Co-Infection Symposium

 9th Conference on Retroviruses and Opportunistic Infections

 Seattle, WA, February 25, 2002

2003 Endpoints for Phase I and II Clinical Trials of New Tuberculosis Vaccines

 NIAID/NIH – CBER/FDA TB Vaccine Regulatory Workshop

 National Institutes of Health

 December 9, 2003

2004 Transmission Dynamics of *M. tuberculosis* in Ugandan Households.

 Emmanual Wolinsky Lecture, MetroHealth Medical Center

 September 2, 2004

2005 Survival in HIV-Associated Tuberculosis

 Confronting TB-HIV Co-infection

 Fifth Annual Harvard Medical School Center for AIDS Research Symposium

 Harvard Medical School

 June 30, 2005

2006 Treating HIV/AIDS in Africa: The Promise and the Perils

 World AIDS Day 2006

 Case Western Reserve University School of Law, Law-Medicine Center

 November 30, 2006

2007 Treating HIV/AIDS in Africa: The Promise and the Perils

 Student Global AIDS Campaign, American Medical Student Association

 Case Western Reserve University, School of Medicine

 October 18, 2007

2007 Transmission Dynamics of Tuberculosis in African Households

 College of Public Health, University of Georgia

 November 30, 2007

2007 Causal Inference in Epidemiology

 Department of Epidemiology and Biostatistics

 Case Western Reserve University

 November 6, 2007

2008 Epidemiology of Tuberculosis

 University Health Center

 University of Georgia

 September 24, 2008

2008 Secondary Attack Rates of Tuberculosis

 Ecology Seminar Series

 Coverdell Center for Biomedical and Health Sciences

 University of Georgia

2008 Epidemics: What Lies Beneath

 Disease – What’s Next … How Are We Preparing?

 Academic Professional Security Series

 Georgia Center for Continuing Education

 University of Georgia

 October 2008

2009 HIV and Tuberculosis Interaction

 Visiting Professor

 University of Pennsylvania

 May 25, 2009

2009 DOTS: A Successful Tactic of a Failed Strategy

 George Naff Lecture, Department of Medicine

 Case Western Reserve University

 June 6 2009

2009 HIV and Tuberculosis Co-pathogenesis

 Invited moderator and speaker

 Inter-CFAR HIV-TB Working Group National Meeting

 Baylor College of Medicine

 Houston, TX

 May 2009

2009 Global Control of Tuberculosis

 Visiting Professor

 Wuxi Center for Disease Control

 Wuxi, China

 October 24, 2009

2010 Fogarty International Clinical Research Scholars and Fellows Programs

 Invited Panelist

 Fogarty International Center, National Institutes of Health

 Potomac, MD

 24 – 26 Sep, 2010

2010 Optimal Control of Tuberculosis

 Invited speaker and panelist

Sixth TEPHINET Global Scientific Conference

Cape Town, South Africa

13 – 17 December 2010

2011 Epidemics of Infectious Diseases among College Students

 Southern College Health Association

 University Health Center, University of Georgia

 18 Mar 2011

2011 Drug Resistant Tuberculosis in Asia

 Visiting Professor

 Wuxi Center for Disease Control

 Wuxi, China

 15 – 22 April 2011

2011 Treatment of HIV-Associated Tuberculosis in Africa

 UGA Center for Drug Discovery

 17 October 2011

2012 Effect of HIV infection on Transmission of *M. Tuberculosis* in African Households

HIV/TB Research Meeting

TB/HIV Working Group of the Stop TB Partnership

 19th Conference on Retroviruses and Opportunistic Infections

 Seattle, WA

 5 March 2012

2012 Treatment of HIV-Associated Tuberculosis: Lessons from Global Health

 Southeastern National Tuberculosis Control Program

 University of Florida

 Gainesville, FL

 22 – 23 March, 2012

2012 Treatment of HIV-Associated Tuberculosis

 University of Nebraska Medical Center

 University of Nebraska

 Omaha, NK

 1 May 2012

2013 Global TB Control

 TEDxUGA

 University of Georgia

 Athens, GA

 22 March 2013

2013 Treatment of HIV-Associated TB with Preserved Immunity

Southeastern Tuberculosis Controllers Meeting

 Savannah, GA

 24 Oct 2013

2014 Mobile Technology to Promote Adherence with cART

Annual Meeting for IMPAACT (International Maternal Pediatric Adolescent AIDS Clinical Trials Network) and HIV Prevention Trials Network

 Arlington, VA

 18 June 2014

2015 Social Networks and the Transmission of *M. tuberculosis* in Africa

 Georgia Southern University, Research Seminar

 Statesboro, GA

 6 March 2015

2015 HIV and Tuberculosis in Africa

 Partnering for Impact in Global and Public Health Symposium

 Medical University of South Carolina

 Charleston, SC

 3 – 4 November 2015

2016 Tuberculosis transmission and Social Networks in African Urban Settings

 Department of Microbiology, Makerere University

 Kampala, Uganda

 11 April 2016

2018 Mapping Tuberculosis Transmission in African Urban Networks

 Grand Rounds, Department of Public Health Sciences

 University of Miami, Miami FL

 21 Feb 2018

2018 Determining Transmission of Tuberculosis outside the Household Setting

 49th Union World Conference on Lung Health

 The Hague, The Netherlands

 24 – 27 October 2018

2019 What’s the Problem? The Disease or Epidemic

 Medical Grand Rounds

 Rutgers University Medical School

 7 May 2019

2019 Tuberculosis Research: Modern Approaches

 Public Health Summer Scholars Program

 Institute of Public and Preventive Health

 Augusta University

 22 May 2019

2019 Tuberculosis – what’s the problem? The Disease or the Epidemic

 George W. Comstock Lecture

 Johns Hopkins University School of Medicine

 12 Nov 2019

2020 Invited Lecture, Tuberculosis Epidemiology

 Epidemiology 542/Global Health 562

 Emory University

 16 Jan 2020

2020 Transmission dynamics of tuberculosis in urban Africa

 Tuberculosis Research Unit

 Rutgers University Medical School

 29 – 30 Jan 2020

2021 Short Course on Epidemiology, Visiting Professor

 Universidad del Valle de Guatemala

 Guatemala City

 28 Mar 2021

**Teaching Activity:**

Medical and Graduate School Teaching:

2016, 2018 Randomized Clinical Trials, EPID 8040 (45h/y; Spring semester, required course for doctoral students in Epidemiology), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2014 – present Integrating Research Designs, EPID 8050 (45h/y; Spring semester, required course for doctoral students in Epidemiology), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2012 – 2014 HIV and AIDS: A Global Perspective, EPID 8550 (45h/y; Maymester; elective for masters and doctoral students), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2011 – 2013 Cohort Study Designs, EPID 8010 (45h/y; required course for doctoral students in Epidemiology), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2009 – 2015 Introduction to Epidemiology, EPID 7010 (45 hrs/y; required course for masters in public health), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2008 – present Epidemiology of Infectious Diseases, EPID 8500 (45 hrs/y, elective course in graduate program), Department of Epidemiology and Biostatistics Core Course, College of Public Health, University of Georgia

2005 AIDS: Epidemiology, Biology, and Culture, ANTH 323/423

 Guest lecturer

 Department of Anthropology

 Case Western Reserve University

1994 – 2008 Epidemiology of Infectious Diseases, EPBI 494 (45 hrs/yr, 10 students per year), Department of Epidemiology and Biostatistics

 Case Western Reserve University School of Medicine

1999 – 2008 Introduction to Epidemiology, EPBI 490 (45 hrs/yr; 40 – 50 students per year); Department of Epidemiology and Biostatistics

 Case Western Reserve University School of Medicine

1996 – 2008 Epidemiology of Infectious Diseases - Outbreak Investigation (1-2 hr/yr)

 Mechanisms of Infection - II (Committee for second year medical students), Case Western Reserve University School of Medicine

1994 – 2003 Principles of Epidemiology in Infectious Diseases (3 -12 hrs/yr)

 Annual International Health Course,

 Case Western Reserve University School of Medicine

 Sponsored by the Center for Global Health and Diseases

 Case Western Reserve University

1995 – 2001 Infectious Disease Epidemiology, (1 hrs/yr)

 Lectures to fellows in Infectious Disease Training Program,

 Division of Infectious Diseases, Department of Medicine

1997 – 2008 Tuberculosis and AIDS: Interaction of an ancient and modern scourge (12 hr/yr)

 Type A elective (IMMU 3002) for Infectious Disease area of concentration, Case Western Reserve University School of Medicine

1998, The World of Vaccines (3 - 15h)

2002 – 2003 Type A elective (EPBI 3001) for medical students

 Case Western Reserve University School of Medicine

2002 - 2004 On Being a Professional Scientist, IBMS 500 (1 h), 2002

 Center for Biomedical Ethics

 Case Western Reserve University School of Medicine

1996 – 1998 Genetic Susceptibility to Infectious Diseases (2 hrs/yr)

 For Genetic Basis of Common Diseases (EPBI 455; John Witte, Ph.D.),

 Department of Epidemiology and Biostatistics

 Case Western Reserve University School of Medicine

1999 Ethics of International Research –Clinical Trial of Preventive Therapy for Tuberculosis in HIV-Infected Ugandan Adults (2 hrs)

 Cross-Cultural Ethics, Medical school Type A elective,

 Center for Biomedical Ethics, Case Western Reserve University School of Medicine

1999 Case-Control Studies in Epidemiology, EPBI 491 (2.5 h),

 Department of Epidemiology and Biostatistics, Case Western Reserve University School of Medicine

1998 Epidemiology of Emerging Infectious Diseases (40 hrs) ,

 Course for public health field workers in Kenya

 Division of Vector Borne Diseases, Kenya Ministry of Health

1992 – 1996 Infectious Disease Epidemiology (1.25 hrs/yr)

 For Epidemiology: Introduction to Theory and Methods (EPBI 490)

 Department of Epidemiology and Biostatistics, Case Western Reserve University

1995 – 1997 Medical Decision Making, (3 hrs/yr)

 Health Care Professions (Dr. R. Ludgin),

 Case Western Reserve University,

 School of Law

1990 – 1995 Instructor, Clinical Epidemiology (3 - 5 hrs/yr)

 Division of General Internal Medicine

 Department of Medicine

 Case Western Reserve University School of Medicine

1989 – 1993 Fundamentals in Medical Decision Making (5 - 8 hrs/yr)

 Small group instructor for second year medical students,

 Case Western Reserve University School of Medicine

1993 Survival Analysis (2.5 hrs)

 Statistical Methods in Epidemiology (EPBI 491, D. Hom),

 Department of Epidemiology and Biostatistics

 Case Western Reserve University School of Medicine

1992 – 1993 Principles of Primary Care Medicine (1 - 3 hrs/yr)

 Topics included HIV Infection in Primary Care, Clinical Research, and Health Maintenance

 Ambulatory Care for Primary Care Residents (Drs. Aucott and Anderson, directors),

 Division of General Internal Medicine, Department of Medicine

 University Hospitals of Cleveland and Veterans Affairs Medical Center

1992 Clinical Trials in HIV Infection (1 hr)

 Clinical Trials (EPBI 450, Dr. N. Gordon),

 Department of Epidemiology and Biostatistics

 Case Western Reserve University School of Medicine

1991 – 1992 Preceptor, Ambulatory Care Clerkship

 Third year medical students

 Case Western Reserve University School of Medicine

 Veterans Affairs Medical Center

1988 – 1991, Instructor, Physical Diagnosis

1993 Second year medical students

 Case Western Reserve University School of Medicine

1988 – 1989 Instructor, Case Conferences, Medical Clerkship

 Third year medical students

 Case Western Reserve University School of Medicine

1988 – 1989 Preceptor, Acting Internship in Medicine

 Third year medical students

 University Hospitals and Veterans Administration Medical Center

1981 – 1982 Tutor in Basic Sciences, Case Western Reserve University School of Medicine

1978 – 1980 Tutor in English, Stanford University, 1978-1980

**Mentoring and Advising students, Fellows and other Trainees: from 1990 to present**

Summary Table (full list of trainees available upon request):

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Trainee | Total | US Trainees | Foreign Trainees |
| Ph.D. Committee Chair  Committee Member | 42 23 19 | 20 10 10 | 22 13 9 |
| M.S., M.P.H., MMed | 63 | 19 | 44 |
| Post-Doctoral Fellows | 7 | 6 | 1 |
| Other (Medical students, resident or fellows)  | 35 | 25 | 10 |
|  | 147 | 70 | 77 |

**Community Service or Activity:**

2015 – 2016 LifeShape, coordinate delegation to visit TB control programs in Kampala, Uganda

2014 Community Forum on Ebola Outbreak in West Africa, Coordinator, Athens, GA; Sep 2014

2006 Keynote speaker, National Honor Society Induction Ceremony, Gilmour Academy, Gates Mills, OH

 5 October, 2006

2005 – present Elioda Tumwesigye Foundation, founding member Board of Trustees, Bushenyi District, Uganda

2005 Forum Panelist,

 The Feminization of HIV/AIDS, Women Emerging Globally

 League of Women Voters, Cuyahoga Regional Area

 Trinity Commons, Cleveland, OH

 May 12, 2005

2004 Guest Lecture, Statistics in Medicine

 Advanced Placement Students

 Brecksville-Broadview Heights and Cuyahoga Heights High Schools

 21 May, 2004

2002 – 2005 Advisor, Serinya Project

 Construction of primary school on Serinya island, Uganda

 Wild Foundation

2000 Medicine and Health Care: The Scourge of AIDS

 Uganda in Perspective: Politics, Medicine and the Church in Africa

 Trinity Cathedral Cleveland

 Euclid Avenue, Cleveland, OH

 May 17, 2000

1997 - 2008 Health Career Enhancement Program for Minorities

 Case Western Reserve University School of Medicine

 Epidemiology of HIV Infection in Africa

1995 Altersgate Class (Adult Education)

 Lakewood United Methodist Church, 15900 Detroit Avenue, Lakewood, OH

 Role of Case Western Reserve University in Uganda

 April 23, 1995

1995 Career Day, October 1995

 Chippewa School, Weise Road, Brecksville, OH

1993 Daywood Homeless Program

 Alcoholism Services of Cleveland, 2490 Lee Blvd., Cleveland Heights OH

 In-service staff about occupational risks of tuberculosis and HIV infection in homeless shelters

**Publications:**

Masters Thesis:

The Impact of Tuberculosis on the Clinical Course of Human Immunodeficiency Virus Infection,

Case Western Reserve University, August 1992.

Thesis Committee: Jerrold Ellner, MD, C. Robert Horsburgh, MD, David Hom, MS

Articles: († Indicates student or trainee of Dr. Whalen.)

1. Foster RE, Whalen CC, Waxman S. Reorganization of the axon membrane in demyelinated peripheral nerve fibers: Morphological evidence. Science 1980; 210:661-663.
2. Wenger JD, Whalen CC, Lederman MM, et al. Prognostic factors in the acquired immunodeficiency syndrome. J Gen Intern Med 1988; 3:464-470.
3. Hricik DE, Whalen CC, Lautman J, et al. Withdrawal of steroids after renal transplantation: Clinical predictors of outcome. Transplantation 1992; 53:41-45.
4. Flanigan T, Whalen CC, Turner J, Soave R, Havlir D, Kotler D. Cryptosporidiosis in HIV infection and CD4 counts. Ann Intern Med 1992; 116:840-842.
5. Whalen CC, Antani M, Carey J, Landefeld CS. An index of symptoms for infection with human immunodeficiency virus: Reliability and validity. J Clin Epidemiol 1994; 47:537-546.
6. Kump K, Whalen C, Tishler PV, Browner I, Ferrette V, Strohl KP, Rosenberg C, Redline S. Assessment of the validity and utility of a sleep symptom questionnaire in a community sample. Am J Resp and Crit Care Med. 1994; 150:735-741.
7. Whalen C, Horsburgh CR Jr., Hom D, Lahart C, Simberkoff M, Ellner J. Accelerated course of human immunodeficiency virus infection after tuberculosis. Am J Resp and Crit Care Med. 1995; 151:129-135.
8. Okwera A, Whalen C, Byekwaso F, Vjecha M, Aisu T, Day-Lally C, Nakibali J, Edmonds K, Nyole S, Huebner R, Johnson J, Hom D, Wallis R, Daniel T, Mugerwa R, Ellner J. A randomized trial of Thiacetazone- and Rifampin- containing therapies for pulmonary tuberculosis in HIV-infected Ugandans. Lancet 1994; 344:1323-1328.
9. Wallis R, Helfand MS, Vjecha M, Whalen CC, Mugerwa R, Okwera A, Ellner JJ. Immune activation, allergic drug toxicity, and mortality in HIV-associated tuberculosis. Tubercle Lung Dis. 1996; 77: 516 - 523.
10. Loue S, Slymen D, Morgenstern H, Whalen CC. The association between health insurance and health services utilization in a cohort of AIDS patients with *Pneumocystis carrinii* Pneumonia. Journal of General Internal Medicine 1995; 10:461-463.
11. Whalen CC, Okwera A, Johnson JL, Vjecha M, Hom D, Wallis R, Mugerwa R, Ellner. Predictors of survival in HIV-infected patients with pulmonary tuberculosis. Am J Resp Crit Care Med 1996; 153:1977 - 1981.
12. Briones B, Adams N, Strauss M, Rosenberg C, Whalen CC, Carskadon M, Redline S. Relationship between sleepiness and general health status. Sleep. 1996; 19: 583 - 588.
13. Bonomo RA, Rice D, Whalen CC, Linn D, Eckstein L, Schlaes DM. Risk factors with permanent access site infection in chronic hemodialysis patients. Infection Control and Hospital Epidemiology. 1997; 18: 757 - 761.
14. Whalen C, Horsburgh CR, Lahart C, Simberkoff M, Ellner J. Site of disease and opportunistic infection predict survival in HIV-associated tuberculosis. AIDS. 1997; 11 (4): 455 - 460.
15. Hecker MT, Johnson JL, Whalen CC†, Nyole S. Mugerwa R. Ellner JJ. Two-step tuberculin skin testing in HIV-infected persons in Uganda. Am R Resp Crit Care Med 1997; 155: 81 - 86.
16. Wallis RS, Nsubuga P. Whalen CC, Mugerwa RD, Oette D, Jackson JL, Johnson JJ, Ellner JJ. Pentoxifylline in HIV-l-seropositive tuberculosis: a randomized controlled trial. J Infect Dis 1996; 174: 727 - 733.
17. Johnson JL, Okwera A, Vjecha M, Byekwaso F, Nakibali J, Nyole S, Milberg J, Aisu T, Whalen CC, Mugerwa R, Ellner JJ. Risk factors for relapse in human immunodeficiency virus type 1 infected adults with pulmonary tuberculosis. Int J Tuberc Lung Dis, 1997; 1: 446 - 453.
18. Whalen CC, Johnson JL, Okwera A, Nsubuga P, Myanja H, Kityo C, Hom DL, Milberg J, Huebner R, Mugyenyi P, Mugerwa R, Ellner JJ. A trial of three regimens to prevent tuberculosis in Ugandan adults infected with the human immunodeficiency virus. N Engl J Med 1997; 337: 801 - 808.
19. Okwera A†, Johnson JL, Vjecha MJ, Hom D, Whalen CC, Wolski K, Huebner R, Mugerwa R, Ellner JJ. Risk factors for adverse drug reactions during thiacetazone treatment of pulmonary tuberculosis in HIV-infected adults. Int J Tuberc Lung Dis, 1997; 1: 441 - 445.
20. Schwander S†, Dietrich M, Mugyenyi P. Okwera A, Johnson J. Nsubuga P. Mateega A, Tugume S. Rusch-Gerdes S. Mugerwa R. Whalen CC. Course of clinical, radiographic and immunological parameters and factors influencing survival during short-course therapy of human immunodeficiency virus type-1 associated pulmonary tuberculosis. East African Medical Journal. 1997; 74: 543 - 548.
21. Loue S, Wabwire-Mangen F, Whalen CC. Knowledge of HIV by health professionals in Kampala, Uganda. Afric J Health Sciences. 1997; 4: 1 – 3.
22. Pekovic V†, Okwera A, Vjecha M, Nsubuga P, Mugerwa R, Ellner JJ, Whalen CC. A comparison of three composite compliance indices in a trial of self-administered preventive therapy in HIV-infected adults. J Clin Epidemiol 1998; 51: 597 – 607.
23. Johnson JL, Nyole S, Okwera A, Whalen CC, Nsubuga P, Pekovic V, Huebner R, Wallis RS, Mugyenyi PN, Mugerwa RD, Ellner JJ. Instability of tuberculin and candida skin test reacitivity in HIV-infected adults in a high tuberculosis prevalence area. Am J Resp Crit Care Med, 1998; 158: 1790 – 1796.
24. Wallis RS, Johnson JL, Okwera A, Nsubuga P, Whalen CC, Mugerwa RD, Ellner JJ. Pentoxifylline in Human Immunodeficiency Virus-Positive Tuberculosis: Safety at 4 Years. J Infect Dis. 1998; 178: 1861.
25. Sang DK†, Ouma JH, John CC, Whalen CC, King CL, Mahmoud AAF, Heinzel FP. Increased levels of soluable interleukin-4 receptor in the serum of patients with visceral leishmaniasis. Journal of Infectious Diseases, 1999; 179: 743-746.
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28. Mudiddo-Musoke P†, Guwatudde D, Nakakeeto M, Bukenya G, Nsamba D, Johnson JL, Mugerwa RD, Ellner JJ, Whalen CC. The effect of BCG vaccination at birth on tuberculin skin test reactivity in Ugandan children. Int J Tuberc Lung Dis 1999; 3: 891 – 895.
29. Wabwire-Mangen F†, Gray RH, Mmiro FA, Ndugwa C, Abramowsky C, Wabinga H, Whalen CC, Li C, Saah AJ. Placental membrane inflammation and risks of maternal-to-infant transmission of HIV-1 in Uganda. J Acquir Immune Defic Syndr. 1999;22:379-85.
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38. Otieno MW, Remick SC, Whalen CC. Adult Burkitt’s lymphoma in patients with and without human immunodeficiency virus infection in Kenya. International J Cancer, 2001; 92: 687 - 691.
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40. Mayanja-Kizza H†, Wajja A, Wu M, Peters P, Nalugwa G, Mubiru F, Aung H, Vanham G, Hirsch C, Whalen CC, Ellner JJ, Toossi Z. Activation of beta-chemokines and CCR5 expression in HIV-1/TB patients. J Infect Dis. 2001; 183: 1801 – 1804.
41. Mayanja-Kizza H†, Johnson JL, Hirsch C, Peters P, Surewicz K, Wu M, Nalugwa G, Mubiru F, Luzze H, Wajja A, Ellner JJ, Whalen CC, Toossi Z. Macrophage activating cytokines in HIV-1 infected and uninfected subjects with pulmonary tuberculosis. J Infect Dis. 2001; 183: 1805 - 1809.
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43. Nshuti L†, Neuhauser D, Johnson JL, Adatu F†, Whalen CC. Public and private provider’s quality of care for tuberculosis patients in Kampala, Uganda. Int J Tuberc Lung Dis 2001; 5(11): 1006 – 1012.
44. Shah S†, Whalen CC, Kotler DP, Mayanja H†, Namale A, Melikian G, Mugerwa RD, Semba RD. Severity of human immunodeficiency virus infection is associated with decreased phase angle, fat mass and body cell mass in adults with pulmonary tuberculosis infection in Uganda. J Nutrition. 2001; 131 (11): 2843 - 2847.
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48. Nsubuga P†, Johnson JL, Okwera A, Mugerwa RD, Ellner JJ, Whalen CC. Gender and HIV-associated pulmonary tuberculosis: presentation and outcome at one year after beginning antituberculosis treatment in Uganda. BMC Pulmonary Medicine 2002; 2(4): 1 – 7.
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2. Le Grice SFJ, Whalen CC, Hom DL, Lehman PV, Walker CJ. Perspective: research highlights at the Case Western Reserve University Center for AIDS Research. AIDS Research and Human Retroviruses. 1996; 12: 1659 - 1663.
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12. Wallis RS, Song H-Y, Whalen C, Okwera A. Potential antagonism between immunity and sterilization during TB chemotherapy. Am J Resp Crit Care Med. 2004; 169: 771- 772.
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14. Whalen CC. New Diagnostic Tests for Latent Tuberculosis Infection: Measure for Measure. JAMA. 2005; 293 (22): 2785 - 2787.
15. Jones-Lopez EC, Ellner JJ, Whalen CC. Subclinical tuberculosis: A new entity? Clin Infect Dis 2005; 41: 1069 – 1070.
16. Whalen CC. Failure of directly observed therapy for tuberculosis in Africa: A call for new approaches. Clin Infect Dis 2006; 42: 1048 - 1050.
17. Onyebujoh PC, Ribeiro I, Whalen CC. Treatment options for HIV-associated tuberculosis. J Infect Dis, 2007; 196 (Supplement 1): 35 – 45.
18. Sekandi JN, List J, Luzze H, Yin X, Dobbin K, Corso PS, Oloya J, Okwera A, Whalen CC. In reply to ‘Active case finding for tuberculosis: what is the most informative measure for policy makers?’ Int J Tuberc Lung Dis. 2014; 18(4): 377 – 378.
19. Hill, PC and Whalen, CC. Non-Clinical Factors Associated with Tuberculosis – Important for DOTS Impact Evaluation and Disease Elimination. Transactions of the Royal Society of Tropical Medicine and Hygiene, June 2014.
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Book Chapters:

Whalen, C.C. and Semba R.D. ‘Tuberculosis’, in Nutrition and Health in Developing Countries, Ed. Semba R.D., Bloem M.W., Humana Press, 2001.

Whalen CC. 2007. Clinical Trials and International Ethics: Tuberculosis Preventive Therapy. In *Case Studies in Ethics and HIV Research*, ed. Loue S and Pike EC, 126 – 135. New York: Springer.

Katamba A, Luzze H, Oloya J, Whalen CC. 2011. ‘Uganda’, in Africa: A Practical Guide for Global Health Workers. Ed. Spielberg LA, Adams LV, pp. 228 – 255. Hanover, New Hampshire: Dartmouth University Press.

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Whalen CC. Urine Testing for rEPO. Cyclingnews. [www.cyclingnews.com/letters](http://www.cyclingnews.com/letters), 3 January 2006.

Whalen CC. Vaccination is sage, necessary for public health. Athens Banner Herald. 2015; 5 March.

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**Current Research and Training Support:**

2012 – 2022 Community Transmission of *M. tuberculosis* in Urban Africa. (PI: Whalen CC; 7/2012 – 6/2022; AI093856, NIAID, NIH). The goal of this project is to determine the social network characteristics that promote community transmission of *M. tuberculosis* in urban Africa.

2015 – 2020 Computational and Molecular Epidemiology in TB and HIV in Uganda. (PI: Whalen CC; 4/2015 – 3/20; 1D43TW010045-01; Fogarty International Center, National Institutes of Health). This is an international training grant that partners with Uganda to train scientists in bioinformatics and mathematical modeling as applied to HIV and TB.

2019 - 2024 Capturing spatial patterns of new *M. tuberculosis* infection in Kampala, Uganda (PIs: Whalen CC, Bark C, Kiwanuka N; AI147319, NIAID, NIH). This study addresses the immune correlates of new infection in susceptible persons living in an African urban setting.

**Pending Research:**

2020 - 2021 Mobility of Patients with Active Tuberculosis before Diagnosis (PI: Kiwanuka N) Bill and Melinda Gates Foundation. This project utilizes Call Detail Records from cellular telephones to reconstruct the movement patterns of tuberculosis cases before diagnosis.

2020 -2025 Assessing myeloid derived suppressor cells as novel mediator of tuberculosis in HIV exposed uninfected children. (PI: Garg A. Co-investigator Whalen CC) These study evaluates the potential role of myeloid derived suppressor cells in the pathogenesis of tuberculosis. National Institutes of Health

2020 -2023 Assessing myeloid derived suppressor cells as novel mediator of tuberculosis in HIV exposed uninfected children. (PI: Garg A. Co-investigator Whalen CC) These study evaluates the potential role of myeloid derived suppressor cells in the pathogenesis of tuberculosis. American Lung Association

2020 – 2025 US-China Collab: spatiotemporal modeling of ecology, transmission and evolution of tuberculosis in China. (PI: Yang, Yang University of Florida; Subcontract PI: Whalen CC) This proposal develops a comprehensive geospatial model using data from various sources to map tuberculosis transmission. National Science Foundation.

2020 – 2025 Incipient and Subclinical TB: diagnosis, natural history and transmission. (PI: Ellner, J Rutgers University; Sub-contract PI: Whalen CC) This proposal characterizes the clinical and epidemiologic features of subclinical tuberculosis and its potential impact on transmission of *M. tuberculosis*.

**Completed Research:**

2011 – 2014 Novel nonparametric methods for prognosis studies with missing covariates. (PI – Song X; Co-Investigator - Whalen CC; DMS 1106816, NSF). The goal of this study is to develop new nonparametric statistical methods for the analysis of longitudinal studies with missing covariates.

2007 – 2010 Community-Based Case Finding of TB-HIV Patients. Doris Duke Charitable Foundation (PI – Whalen CC). This study compares the efficiency of identifying cases of HIV-associated tuberculosis in Kampala, Uganda, using community cough surveys and household contact evaluations.

2007 – 2008 Determination of infection with multiple strains of Mycobacterium tuberculosis in adults with active pulmonary tuberculosis in Kampala. Uganda. Howard Hughes Medical Institute (PI – Whalen CC). This is a research training fellowship for a medical student Katherine Dickman. The study will determine the how often active tuberculosis is produced by multiple strains of M. tuberculosis using state-of-the-art molecular methods of strain typing.

2005 – 2008 Biomarkers of protective immunity and surrogate markers of TB disease in Africa. Bill and Melinda Gates Foundation (PI – Kaufman, S.; Co-Investigator – Whalen CC). The goals of this project are to define biomarkers and signature profiles of innate and adaptive immune responses to *M. tuberculosis* which are associated with protection.

2003 – 2013 The Uganda HIV/TB Clinical, Operational, and Health Services Research Training Program NIH TW 006900 (PI – Whalen CC). This is a research and training program for clinical, operational, and health services research on tuberculosis or HIV in Uganda. Through graduate degree and non-degree training experiences based in research, this program will help develop capacity in Uganda to evaluate new treatment and prevention programs for HIV and tuberculosis.

2003 – 2010 Punctuated Antiretroviral Therapy for HIV/TB in Uganda NIH AI 51219 (PI – Whalen CC). This study is designed to determine whether a punctuated, six-month course of highly active antiretroviral therapy during treatment of HIV-associated tuberculosis delays the progression to AIDS.

2000 – 2006 International Bioethics Training Program, NIH TW-0008 (PI – Loue, S; Mentor/Advisor – Whalen CC). This training program will provide formal degree and non-degree training in international biomedical ethics to foreign investigators from four countries through the Department of Bioethics. Dr. Whalen served as an instructor in this program and as a member of the advisory board.

1999 – 2004 Papua New Guinea duffy negativity and vivax malaria, NIH (PI – Zimmerman P; Investigator – Whalen, CC). This study explores the effect of Duffy negativity on morbidity and mortality in children with vivax malaria in Papua New Guinea. Dr. Whalen assisted with the design of component studies and the analysis of data for this study.

1998 – 2004 Adjunct Vitamin A Therapy for Tuberculosis in HIV/AIDS in Malawi, NIH (PI – Semba, R; Investigator/Consultant – Whalen, CC). The aim of this study is to see whether the use of vitamin A supplementation improves survival in HIV-associated tuberculosis. Study conducted in Zomba Malwi.

1996 – 2008 Center for AIDS Research, NIH AI36219 (PI – Lederman, M; Epidemiology and Biostatistics Core director – Whalen CC). This Center is designed to promote HIV/AIDS research at Case in multiple disciplines including basic virology, vaccine development, clinical trials of antiretroviral therapy, and international research. Dr. Whalen is responsible for the Epidemiology and Biostatistics Core that provides consultation to CFAR members.

1994 – 2014 Tuberculosis Research Unit, NIH AI95383 (PI – Boom, WH; Epidemiology Component Leader – Whalen CC). The Tuberculosis Research Unit (TBRU) is a multidisciplinary research contract to study novel methods for tuberculosis control. The TBRU has four major research programs in epidemiology, clinical trials, immunology, and microbiology, and three core activities including a specimen repository, a study coordinating center, and an administrative core. Dr. Whalen is responsible for the design, conduct and analysis of a community-based study of tuberculosis transmission in Ugandan households. He is also the director of the Data Coordinating Center and oversees issues related to data integrity, quality control and quality assurance, and directs analysts in data analysis.

1994 – 1997 Preparation for AIDS Vaccine Evaluation (PI – Ellner JJ; Co-Investigator - Whalen CC; NIH AI 35173). To measure the seroincidence of HIV infection and its behavioral correlates in a Ugandan military cohort.

1993 – 1998 Preventive Therapy for tuberculosis in HIV-infected individuals in Uganda (ADEPT) CCU 506716 (PI – Whalen CC/Ellner JJ). To evaluate the safety and efficacy of three preventive therapy regimens for tuberculosis in HIV-infected Ugandan adults.

1993 – 2003 Impact of Tuberculosis on HIV Infection in Uganda, NIH AI32414 (PI – Whalen CC). To determine immunologic determinants of survival in HIV-associated tuberculosis and to determine whether immunoadjuvant improves survival in these patients.

1992 - 1994 Claude Pepper Award for Research on Aging (PI – J. Kowal; Co-Investigator - Whalen CC; AG 10418, NIA, NIH). As part of this multi-faceted grant, funding was used to study the impact of tuberculosis on mortality in elderly individuals.

1992 - 1993 Falls: A predictive model of risks (PI – B. Roberts; Co-Investigator - Whalen CC; NIA, NIH). As a co-investigator, Dr. Whalen provided advice on study design and methods of data collection for evaluating falls in the elderly.

1991 Measurements of symptoms in HIV-infected persons (PI – Whalen CC; Case Western Reserve University Research Initiation Grant). The aim of this study was to develop and validate an instrument to measure symptoms in HIV-infected individuals. The support from this award led to the publication of a novel index for measuring morbidity in HIV-infected individuals.

1988 – 2014 AIDS International Training and Research Program, NIH TW-00011-24 (PI – Whalen, CC from 1995 to present). To provide intensive training in research methodology for HIV/AIDS research to foreign investigators and their colleagues and to assist in the development of the infra-structure for collaborative research.