

CURRICULUM VITAE

DATE: 2/19/2020

PERSONAL INFORMATION

Name: **Christopher Todd Longenecker, MD FAHA**

Education

School: Eastern Mennonite University

Degree: B.A.

Dates: 8/1997-12/2001

School: University of Nancy-2

Degree: Diploma of Advanced French (D.A.L.F)

Dates: 9/1999-6/2000

School: The Ohio State University College of Medicine

Degree: M.D.

Dates: 8/2002-6/2006

School: Harvard Medical School Global Clinical Scholars Research Training Program

Degree: Certificate

Dates: 6/2015-6/2016

Post-Graduate Training

Institution: University of California, San Francisco

Position: **Internal Medicine Resident**

Dates: 7/2006-6/2009

Institution: University Hospitals Cleveland Medical Center

Position: **Cardiology Fellow**

Dates: 6/2009-6/2012

Institution: University Hospitals Cleveland Medical Center

Position: **Chief Cardiology Fellow**

Dates: 6/2009-6/2012

Institution: University Hospitals Cleveland Medical Center

Position: **T32 Research Fellow**

Dates: 6/2012-6/2013

Contact Information

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PROFESSIONAL APPOINTMENTS

Position/Rank: **Attending Cardiologist**
Institution/Department: University Hospitals Harrington Heart & Vascular Institute (UH HHVI)
Dates: 7/2012- current

Position/Rank: **Director**
Institution/Department: UH HHVI Research & Innovation Center
Dates: 1/2018- current

ACADEMIC APPOINTMENTS

Position/Rank: **Associate Professor of Medicine (Tenure Track)**
Institution/Department: Case Western Reserve University School of Medicine
Dates: 7/2019-current

Position/Rank: **Assistant Professor of Medicine (Tenure Track)**
Institution/Department: Case Western Reserve University School of Medicine
Dates: 7/2013-6/2019

Position/Rank: **Clinical Instructor of Medicine**
Institution/Department: Case Western Reserve University School of Medicine
Dates: 7/2012-6/2013

CERTIFICATION AND LICENSURE

Name of Board: Ohio State Medical Board
Licensure State/Number: 35.099888
Date Issued: 8/10/2012—7/1/2020

Name of Board: American Board of Internal Medicine
Certification: Internal Medicine
Date Issued: 2009 – 2019

Name of Board: American Board of Internal Medicine
Certification: Cardiovascular Disease
Date Issued: 2012 – 2022

Name of Board: National Board of Echocardiography
Certification: ASCeXAM Exam Testamur (passed)
Date Issued: 2012

HONORS AND AWARDS

1998	American Chemical Society Most outstanding freshman chemistry student
2001	American Chemical Society, Most outstanding senior chemistry student
2005	Alpha Omega Alpha Honor Society inductee
2006	William J. Means Memorial Award, OSU College of Medicine One of eight senior awards in recognition of “outstanding scholarship and professional attributes.”

2006	American College of Physician Award For the “outstanding senior student entering internal medicine”
2010	First-Year Cardiology Fellow of the Year University Hospitals/Cleveland VAMC
2011	Young Investigator Award 18 th Conference on Retroviruses and Opportunistic Infections Boston, MA
2011	First place poster presentation, Fellows category UH Department of Medicine Research Day
2012	Young Investigator Award 19 th Conference on Retroviruses and Opportunistic Infections Seattle, WA
2012	Runner-up poster presentation, Fellows category UH Department of Medicine Research Day
2013	First place poster presentation, Fellows category UH Department of Medicine Research Day
2013	Internal Medicine Clerkship Faculty Teaching Award Case Western Reserve University School of Medicine
2013	Inaugural Wolf Family Scholar University Hospitals Case Medical Center Case Western Reserve University School of Medicine
2015	Faculty Research Mentor Award For outstanding research mentorship of internal medicine housestaff UH/CWRU Department of Medicine
2017	Next Gen Innovators in Cardiology Chosen by the Cardiology Today Editorial Board as a leader of the next generation of cardiologists who are working to educate colleagues and conduct research on novel strategies to advance cardiovascular care.
2018	Fellow of the American Heart Association Epidemiology Council
2020	2019-2020 Visiting Global Cardiovascular Health Professor Duke University

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2002-2006	American Medical Association	Student member
2002-2006	American Medical Student Association	Member
2003-2004	American Medical Student Association	Chapter President
2003-2006	Physicians for Human Rights	Member
2003-2006	Mennonite Medical Association	Member
2004-2006	American College of Physicians	Student member
2009-	American College of Cardiology	Member
2009-	American Heart Association	Fellow/FAHA

2019- **European Society of Cardiology** Member

PROFESSIONAL SERVICES

Clinical Service

2013-	UH Hellerstein Service Inpatient step-down/telemetry, cardiovascular medicine	Attending Physician	0.15 FTE
2013-	UH Echocardiography Lab 500-600 transthoracic interpretations, 25-50 stress echocardiogram procedures, and 25-50 transesophageal procedures per year	Attending Physician	0.05 FTE
2013-	HIV Cardiometabolic Risk Clinic Half-day clinic every other Wednesday at University Hospitals John T. Carey Special Immunology Unit	Director	0.05 FTE

Editorial Boards

Journal: Ugandan Medical Journal
Role: Associate Editor
Dates of Service: 2011-2013

Other service to professional journals

2012 -	American Journal of Cardiology	Ad Hoc Reviewer
2013 -	Journal of Acquired Immune Deficiency Syndromes	Ad Hoc Reviewer
2014 -	International Journal of Cardiovascular Imaging	Ad Hoc Reviewer
2014 -	Global Heart	Ad Hoc Reviewer
2015 -	Vascular Medicine	Ad Hoc Reviewer
2015 -	The Journal of Pediatrics	Ad Hoc Reviewer
2015 -	Journal of Infectious Diseases	Ad Hoc Reviewer
2016 -	JASE: Journal of the American Society of Echo	Ad Hoc Reviewer
2016 -	JACC: Journal of the American College of Cardiology	Ad Hoc Reviewer
2016 -	Cardiology Clinics	Ad Hoc Reviewer
2016 -	Heart	Ad Hoc Reviewer
2016 -	JAMA Cardiology	Ad Hoc Reviewer
2017 -	New England Journal of Medicine	Ad Hoc Reviewer
2017 -	PLOS One	Ad Hoc Reviewer
2018 -	Circulation: Cardiovascular Imaging	Ad Hoc Reviewer

2018 - **Nature Reveiws Cardiology** Ad Hoc Reviewer
2019 - **VASA: European Journal of Vascular Medicine** Ad Hoc Reviewer

Study Sections/Grant Review Committees

Institution: UH/CWRU Department of Medicine,
Section/Committee: Team Science Challenge Grant Review Committee
Dates of Service: 7/2016

Institution: NIH
Section/Committee: Special Emphasis Panel ZTR1 RD-8 (01); Rare Disease Clinical Research Network
Dates of Service: 2/2019

Institution: NIH
Section/Committee: Special Emphasis Panel ZHL1 CSR-H (M3); NHLBI Clinical Ancillary Studies (R01)
Dates of Service: 3/2019

Institution: NIH
Section/Committee: Clinical Trials Review Committee (CLTR)
Dates of Service: 2/2020

Institution: NIH
Section/Committee: Special Emphasis Panel ZRG1 AARR-B (50) R; HIV-associated Non-Communicable Diseases Research at Low- and Middle-Income Country Institutions
Dates of Service: 3/2020

COMMITTEE SERVICE

National/International

Organization: American Medical Student Association
Committee Name/Role: **Credentials Committee Member**
Dates of Service: 2003

Organization: American Medical Student Association
Committee Name/Role: **Nominations Committee Member**
Dates of Service: 2004

Organization: American Medical Student Association
Committee Name/Role: **Chair, Reference Committee on Medical Education**
Dates of Service: 2005

Organization: American Heart Association
Committee Name/Role: **Epidemiology Council Early Career Committee Member**
Dates of Service: 2014—2018 (2 terms)

Organization: American Heart Association
Committee Name/Role: **Epidemiology Council Early Career Committee, Vice Chair**
Dates of Service: 2018—2020

Organization: American Heart Association
Committee Name/Role: **Molecular Determinants of Cardiovascular Health Committee**
* Early Career Committee Liason

Dates of Service: 2014—2015

Organization: National Lipid Association

Committee Name/Role: **Dyslipidemia Recommendations Expert Panel on Lipid Management in HIV**

Dates of Service: 2014—2015

Organization: University of Colorado

Committee Name: **SNF Connect: Heart Failure Care From Hospital to Home Clinical Endpoints Adjudication Committee**

Dates of Service: 2014—2015

Organization: American Heart Association

Committee Name/Role: **Statistics Committee Member**

* Primary author of kidney disease chapter and secondary author of the valvular disease chapter of the Heart Disease and Stroke Statistics Document published annually in Circulation.

Dates of Service: 2015—2019 (2 terms)

Organization: American Heart Association

Committee Name/Role: **Rheumatic Fever, Endocarditis, and Kawasaki Disease Committee Member**

Dates of Service: 2015—2019 (2 terms)

Organization: Alliance for Academic Internal Medicine

Committee Name/Role: **Third Consensus Conference on the Physician Investigator Workforce**

* Delegate and breakout session moderator

Dates of Service: 2016

Organization: Emory University

Committee Name/Role: **Global Partnerships to Advance NCD Research within the Agenda of the Sustainable Development Goals Abstract Review Committee**

Dates of Service: 2016

Organization: World Heart Federation

Committee Name/Role: **Rheumatic Heart Disease Roadmap Reviewing Committee Member**

Dates of Service: 2016

Organization: Rheumatic Heart Disease Action

Committee Name: **Uganda RHD Stakeholders Meeting Steering Committee**

* Chairperson

Dates of Service: 2017

Organization: American Heart Association

Committee Name/Role: **Cardiovascular Disease Risk Assessment, Prevention and Therapy for People Living with HIV; Scientific Statement Writing Group**

Dates of Service: 2018—2019

American College of Cardiology

Committee Name/Role: **Working Group on Academic Training in Cardiovascular Disease and Global Health Equity**

Dates of Service: 2018—present

Organization: American Heart Association

Committee Name/Role: **American Heart Association's Call to Action for Reducing the Global Burden of Rheumatic Heart Disease; Scientific Statement Writing Group**

Dates of Service: 2019—present

Hospital Affiliate

Committee Name/Role: **UH Division of Cardiovascular Medicine QA Committee**

Dates of Service: 2010—2011

Committee Name/Role: **Tift Fund for Global Research Steering Committee Member**

Dates of Service: 2015—present

Committee Name/Role: **Center For AIDS Research Cardiovascular Working Group**

* Co-chair

Dates of Service: 2016—2019

Committee Name/Role: **Committee to Reshape the Future of the Department of Medicine**

Dates of Service: 2017

Committee Name/Role: **Inflammation and Thrombosis in Patients with Severe Aortic Stenosis after Transcatheter Aortic Valve Replacement Trial**

* Data Safety Monitoring Board Member

Dates of Service: 2016—2019

Committee Name/Role: **Search Committee, Director of the UH Center of Excellence in Diabetes and Obesity**

Dates of Service: 2018—present

Committee Name/Role: **AIDS 400: HIV Reservoir Reduction with Interleukin-2**

* Chairperson, Data Safety Monitoring Board

Dates of Service: 2018—present

Committee Name/Role: **UH Research Division (UHRD) Internal Advisory Board**

Dates of Service: 2018—present

Committee Name/Role: **CWRU Department of Medicine Committee on Appointments, Promotions, and Tenure**

Dates of Service: 2019—present

Committee Name/Role: **Cardi-OH: Ohio Cardiovascular Health Collaborative; CWRU Advisory Board**

Dates of Service: 2019—present

Committee Name/Role: **UH Clinical Research Center Data Safety Monitoring Board; Ad hoc member**

Dates of Service: 2020—present

Educational Committees

Committee Name/Role: **Internal Medicine Residency Selection Committee**

Dates of Service: 2012—2013

Committee Name/Role: **Cardiovascular Medicine Fellowship Selection Committee**

Dates of Service: 2013—present

Committee Name/Role: **CWRU SOM World Medicine Pathway Planning Committee**

* Faculty Lead

Dates of Service: 2017—present

TEACHING ACTIVITIES

Curriculum/Course Development

1. Cardiovascular Care of Vulnerable Populations

The Ohio State University College of Medicine

2006 (80 hours)

* As a medical student at Ohio State I created and taught a curriculum for second year medical students examining the above topic. It consisted of 4 x 2hour sessions of mixed didactics, case studies, guest speakers, and panel discussions on the following topics:

- Cardiovascular manifestations of HIV/AIDS
- Cardiovascular care in the developing world
- Racial disparities in cardiovascular care
- Cardiovascular manifestations of alcohol and drug use

2. Small Group Instructor, UCSF SOM IDS 102 Cardiovascular Disease

University of California, San Francisco School of Medicine

2008 (10 hours)

* As a resident at UCSF, I was a small group instructor for case studies of arrhythmias and ECG interpretation.

3. Block 4 Small Group Instructor

Case Western Reserve University School of Medicine

2010—2015 (2-4 hours/year)

* As a cardiology fellow and junior faculty member, I participated in Block 4 small groups on ECGs, patient interviews and clinical decision making.

4. Third Year Internal Medicine Clerkship ECG Course

Case Western Reserve University School of Medicine

2011—present (20 hours/year)

* I developed a curriculum for and conduct classes on ECG interpretation for third year medical students (8 classes per year). I designed a short assessment form to solicit feedback from students which has become a model for instructor evaluation in the clerkship.

5. Medical Physiology (PHOL 481)

Case Western Reserve University Department of Physiology

2012—present (5 hours/year)

* I developed a curriculum for and conduct a 3 hour class (once yearly) on vascular imaging modalities

6. Inpatient Cardiology Service (Hellerstein Service)

2013—present (18 hours/year didactic teaching)

* I conduct daily 30min dedicated teaching sessions for medical students, residents, and fellows during my 6 weeks of inpatient service time every year (15 hours/year). For this, I have developed a curriculum of “chalk talks”. This is in addition to the bedside teaching that is performed during the normal course of rounding.

7. Clinical Immersion Week, CWRU SOM

2015—present (4 hours/year)

* I conduct 4 hour sessions on ECG and cardiovascular history/exam for 1st year medical students (once yearly)

8. HIV Management: The New York Course

2016, 2017, 2018

* This HIV CME course is one of the largest and most reputable in the country. Since 2016, I have designed a case-based curriculum for lunch breakout sessions and given 2 plenary talks on cardiovascular disease in people living with HIV

9. Expert Perspectives on the Prevention and Management of HIV-Related Cardiovascular Disease

Academy for Continued Healthcare Learning
2017

* I have served as a faculty discussant and presenter along with other nationally known experts in the field for these online courses designed to teach cardiologists, infectious disease specialists, primary care physicians, and other clinicians interested in the management of patients with HIV-related cardiovascular disease.

10. Small Group Instructor, IBMS 500: On Being A Professional Scientist

2017

* I conducted a 1.5 hour interactive session in which we discussed real world research ethics scenarios.

11. HIV as a Chronic Disease: A Treater's Guide to Optimizing Care in the Aging Patient with Comorbidities. (HIV in Aging Patients eHealth Source)

2019

* I developed an online CME curriculum together with Dr. Paul Sax (Professor of Medicine, Harvard Medical School) on comorbidities in the aging HIV patient with a focus on cardiovascular disease, chronic kidney disease, cancer, and neurocognitive dysfunction.

12. Faculty Lead, World Medicine Pathway

Case Western Reserve University School of Medicine

2018—present (direct teaching and course development ~10 hours/month; administrative responsibilities described below)

Presentations (starting 2013)

National/International

1. Uganda MEPI-CVD Stakeholders Meeting

Highlights of Case Western – Uganda collaboration in CVD research
2/3/2013 Kampala, Uganda

2. Association of Black Cardiologists Scientific Sessions

Human Immunodeficiency Virus: Cardiovascular Complications and Management
3/28/2014 Washington, DC

3. Medtronic Philanthropy

RHD Country Partners: the Uganda Experience
11/10/2014 Minneapolis, MN

4. IFARA Webcast “Update from CROI 2015”

Metabolic Complications of HIV, panel member
2/26/2015 Seattle, WA

5. New York Clinical Lipid Forum

The Spectrum of Heart Disease in HIV/AIDS
4/23/2015 New York, NY

6. Alliance for Academic Internal Medicine, 3rd Consensus Conference on the Physician Investigator Workforce

Addressing Challenges to Early Career Physician Investigator Development
11/13/2015 Washington, DC

- 7. Conference on Retroviruses and Opportunistic Infections**
Moderator of oral abstract session “Complications from head to toe”
2/23/2016 Boston, MA
- 8. Cardiovascular Medicine Fellows Report, Northwestern University Feinberg School of Medicine**
Case presentations of cardiovascular disease in HIV/AIDS
4/1/2016 Chicago, IL
- 9. National Lipid Association Scientific Sessions**
The Complex Patient: HIV Plus a Whole Lot Else
5/22/2016 New Orleans, LA
- 10. World Congress of Cardiology and Cardiovascular Health**
HIV and RHD: Associations, Lessons and Opportunities to Leverage Care
6/6/2016 Mexico City, Mexico
- 11. Gilead Sciences Medical Affairs Annual Conference**
CVD in HIV: Collaborative Innovation in Research and Care Delivery
6/21/2016 San Francisco, CA
- 12. Eastern Mennonite University Annual Suter Science Lecture**
Inflammation and heart disease in patients with HIV: possible solutions for a global epidemic
10/15/2016 Harrisonburg, VA
- 13. Uganda-Case Western Collaboration Meeting**
Cardiovascular Disease
5/10/2017 Cleveland, OH
- 14. NURTURE Fellows Conference**
Case Studies in Hypothesis Generating Research
10/31/2017 Kampala, Uganda
- 15. American Heart Association Scientific Sessions**
Session title: The Global Burden of Infectious Diseases on the Heart
Talk title: HIV and Cardiovascular Disease
11/12/2017 Anaheim, CA
- 16. American Heart Association Scientific Sessions**
Session title: Funding for your Great Ideas
Talk title: Navigating Industry Sponsored Funding
11/14/2017 Anaheim, CA
- 17. 2nd Meeting CWRU-Hospital Israelita Albert Einstein—Building a Global Partnership in Health Education, Research, and Innovation**
Epidemiology and mechanisms of endemic cardiovascular disease in low- and middle-income countries: focus on HIV and rheumatic heart disease.
3/7/2018 Sao Paulo, Brazil
- 18. American Heart Association Epidemiology/Lifestyle Scientific Sessions**

Annual Business Lunch

International Collaborations in Cardiovascular Epidemiology

3/22/2018 New Orleans, LA

19. 22nd International AIDS Conference

Promoting cardiovascular health in people living with HIV: Best practices across resource settings for patients, community health workers, and health care providers

7/25/2018 Amsterdam, Netherlands

* I co-facilitated this session with Dr. Webel (CWRU School of Nursing)

20. NURTURE Fellows Conference

Research Mentorship: It's not easy bein' green

9/25/2018 Kampala, Uganda

21. Uganda Heart Institute Mini-Symposium on Cardiac CT

Cardiac CT in Uganda: The Research Agenda

9/25/2018 Kampala, Uganda

22. American Heart Association Scientific Sessions

Session title: *Key Issues in Global Advocacy for Rheumatic Heart Disease: Joint Session with AHA & the World Heart Federation*

Talk title: *Decentralization of Care for Rheumatic Heart Disease*

11/10/2018 Chicago, IL, USA

23. American Heart Association Scientific Sessions

Session title: *WTF: Where's the Funding*

Talk title: *Industry funding for Investigator Sponsored Research*

11/11/2018 Chicago, IL, USA

24. World Congress of Cardiology and Cardiovascular Health

Session title: *Rheumatic Heart Disease—Prevention*

Talk title: *Secondary Prevention Cascade: how can it help monitoring programs?*

12/8/2018 Dubai, United Arab Emirates

25. Georgetown Law Center

Foreign Medical Graduate Short Term Clinical Program Working Group Meeting

Medical Education Perspective Panel

2/11/2019 Washington, DC, USA

26. Duke Infectious Disease Grand Rounds

New Frontiers in Cardiovascular Health and Disease among People with HIV

9/23/2019 Durham, NC, USA

27. Duke Cardiology Grand Rounds

Innovations in CVD Prevention for People Living with HIV

2/18/2020 Durham, NC, USA

28. Duke Global Health Institute “Think Global” Series

The Revived Global Movement to Improve Rheumatic Heart Disease Care

2/18/2020 Durham, NC, USA

Local

- 29. Cleveland AIDS Clinical Trials Group Community Advisory Board**
Heart Disease in HIV/AIDS: Treatment and Prevention
1/8/2013 Cleveland, OH
- 30. Internal Medicine Noon Conference**
Cardiovascular Disease in HIV/AIDS: Traditional and Nontraditional Risk
1/11/2013 Cleveland, OH
- 31. Pediatric Infectious Diseases T32 SOC Presentation**
Inflammation and Vascular Disease in HIV: The SATURN-HIV Trial
2/8/2013 Cleveland, OH
- 32. UH Special Immunology Unit Physician Staff Meeting**
The Harrington Heart & Vascular Institute Cardio-Immunology Clinic: Cardiovascular disease treatment and prevention in an HIV medical home
2/22/2013 Cleveland, OH
- 33. Infectious Disease Fellows Morning Conference**
Cardiovascular Disease in HIV/AIDS: Traditional and Non-traditional Risk
4/22/2013 Cleveland, OH
- 34. Case Cardiovascular Research Institute CRISS Conference**
Vascular Disease in Chronic HIV Infection: Insights from SATURN-HIV
5/29/2013 Cleveland, OH
- 35. Infectious Disease Fellows Noon Conference**
Rheumatic Heart Disease Basics
12/6/2013 Cleveland, OH
- 36. UH/CWRU Cleveland Medical Center Medicine-Pediatrics Grand Rounds**
Rheumatic Heart Disease in sub-Saharan Africa
4/10/2014 Cleveland, OH
- 37. CWRU Cardiovascular Research Institute Retreat**
Characterizing Adiposopathy in Chronic HIV Infection: the Value of Imaging
10/16/2014 Cleveland, OH
- 38. UH/CWRU Cardiovascular Medicine Grand Rounds**
SToP-RHD: Screening, Treatment, and Prevention of Rheumatic Heart Disease
10/30/2014 Cleveland, OH
- 39. World AIDS Day Community Education Forum**
Cardiovascular Disease in Chronic HIV Infection
12/1/2014 Cleveland, OH
- 40. CWRU Center For AIDS Research Annual Retreat**
PET/MRI to measure vascular inflammation in HIV
1/20/2015 Cleveland, OH
- 41. Northeast Ohio AIDS Treating Physicians' Post-CROI Update Dinner**
Cardiovascular Disease Update

3/30/2015 Cleveland, OH

42. UH/CWRU Medicine Grand Rounds

SToP-RHD: Screening, Treatment, and Prevention of Rheumatic Heart Disease

4/14/2015 Cleveland, OH

43. Infectious Disease Fellows Noon Conference

Lipid Management in HIV/AIDS

5/11/2015 Cleveland, OH

44. UH/CWRU Department of Medicine Research Day, Plenary talk

Cardiovascular disease in treated HIV infection: a tale of two countries

5/15/2015 Cleveland, OH

45. UH/CWRU Pediatrics Grand Rounds

SToP-RHD: Screening, Treatment, and Prevention of Rheumatic Heart Disease

5/22/2015 Cleveland, OH

46. UH/CWRU Infectious Diseases Institute, "Fat Tuesday"

Clinical Lipidology of HIV

8/25/2015 Cleveland, OH

47. UH Harrington Heart & Vascular Institute Chest Pain Symposium

The Spectrum of Cardiovascular Disease in HIV/AIDS

3/8/2016 Cleveland, OH

48. UH/CWRU Center for AIDS Research, Annual Internal Retreat

Pericardial fat as a cardiometabolic risk marker in treated HIV infection

3/29/2016 Cleveland, OH

49. UH/CWRU Internal Medicine Residency Agree Society

A junior faculty perspective on building a successful academic medical career

5/4/2016 Cleveland, OH

50. Lederman lab meeting

Diastolic dysfunction and heart failure risk in treated HIV infection

9/28/2016 Cleveland, OH

51. UH/CWRU Cardiology Fellows Conference

Biostatistics and Epidemiology 101 for the Cardiology Fellow

11/7/2016 Cleveland, OH

52. Infectious Disease Fellows Conference

Cardiovascular disease and HIV: Interactive Case Discussions

2/27/2017 Cleveland, OH

53. Cardiology Fellows Conference

Heart Failure in People Living with HIV/AIDS

5/10/2017 Cleveland, OH

54. UH/CWRU Global Health & Infectious Disease Conference

Endemic Cardiovascular Disease in sub-Saharan Africa: Focus on Rheumatic Heart Disease and HIV

12/1/2017 Cleveland, OH

55. Infectious Disease Fellows Conference

Cardiometabolic Complications of HIV

2/15/2018 Cleveland, OH

56. Cardiology Clinical Case Conference (Research Highlight Session)

Endemic Cardiovascular Disease in sub-Saharan Africa: Focus on Rheumatic Heart Disease and HIV

6/20/2018 Cleveland, OH

57. Building Bridges, Fighting Disease Celebrating CWRU's 30-Year Partnership with Uganda: Past, Present and Future

Non-Communicable Diseases Training and Research

10/26/2018 Cleveland, OH

58. CWRU Global Health Forum

Capacity building through research on endemic cardiovascular disease in sub-Saharan Africa

11/26/2018 Cleveland, OH

59. UH Heart Failure Conference

Heart Failure in People Living with HIV/AIDS

1/30/2019 Cleveland, OH

60. UH/CWRU Internal Medicine Residency Agre Society

The early to mid-career transition in academic medicine: challenges and opportunities

2/13/2019 Cleveland, OH

61. Advanced Management Issues in HIV Care Conference

Cardiovascular Health for People with HIV

9/13/2019 Cleveland, OH

62. Infectious Disease Fellows Conference

Cardiometabolic Complications of HIV

4/29/2019 Cleveland, OH

Trainees / Mentees

2011- 2014

Babak Moini

Promoting primary prevention of rheumatic heart disease in Uganda; a qualitative study of strep pharyngitis awareness in urban and rural communities

* Awards: 1st place UH Pediatrics Science Day 2013.

Internal Medicine-Pediatrics
Resident, University Hospitals
Case Medical Center

2012-2013

Whitney Dunn

The relationship of serum adipokines and subclinical vascular disease in the Stopping Atherosclerosis and Treating Unhealthy Bone with Rosuvastatin in HIV trial (SATURN-HIV)

Medical Student, Case Western
Reserve University School of
Medicine

2012-2014	Marty Tam Screening for peripheral artery disease in cardiac rehabilitation	Internal Medicine Resident, University Hospitals Case Medical Center
2012-2013	Ryan Ward Clinical predictors of perivascular fat volumes stratified by coronary calcium score	Masters in Physiology student, Case Western Reserve University
2012-2016	Nathan Stehouwer Validation of a teaching module for echocardiographic scoring of mitral stenosis prior to percutaneous balloon valvuloplasty	Internal Medicine-Pediatrics Resident, University Hospitals Case Medical Center
2012-2015	Daniel Huck The role of HIV and auto-antibodies among patients with rheumatic heart disease in Uganda: a case-control study <i>* Awards: Arnold P. Gold Foundation Fellowship, CWRU Rottman Research Award, Ben Kean Travel Fellowship</i>	MD/PhD student Lerner College of Medicine
2013-2014	Jane Hanson Educational Intervention to Improve Rheumatic Heart Disease Knowledge in a Rural Ugandan Community	PhD Anthropology
2013-2015	Maya Serhal The Relationship of Inflammation and Immune Activation to left atrial function in chronic HIV infection	Internal Medicine Resident, University Hospitals Case Medical Center
2014-2017	Claire Sullivan Assessment of arterial inflammation with PET/CT and PET/MRI in chronic HIV infection	Cardiology Fellow, University Hospitals Case Medical Center
2014- 2017	Justin Morrison Coenzyme Q10 and Inflammation in treated HIV <i>* Awards: UH/CWRU Dept of Medicine Research Day Award</i>	Internal Medicine Resident, University Hospitals Case Medical Center
2015- 2017	Sadeer Al-Kindi Pericardial fat, inflammation, and structural heart disease in HIV infection	Cardiology Research Fellow, University Hospitals Case Medical Center
2015-2017	Stephen Morris Assessing the quality of rheumatic heart disease care in Uganda	Internal Medicine Resident, University Hospitals Case Medical Center
2016-2019	Ben Alencherry Strengthening Cardiovascular Care Without Specialists: A Pilot Program at Lira Regional Referral Center	Internal Medicine Resident, University Hospitals Case Medical Center
2016- present	Sahera Dirajlal-Fargo Cardiovascular Disease and Inflammation in Ugandan Children with HIV.	Assistant Professor, Pediatric Infectious Diseases, University Hospitals Cleveland Medical Center

2016- present	Jerry Lipinski Effect of statin on coronary calcium distribution, mass and volume scores and associations with immune activation among HIV+ persons on antiretroviral therapy	CWRU Medical Student, Class of 2019
2018- present	Chelsea Wright Cultural meaning, value, and patterns of physical activity and exercise in Ugandans with and without HIV: a mixed methods study <i>* Awards: Rottman Scholarship</i>	CWRU Medical Student, Class of 2019
2018	Tiffany Truong Subclinical myocardial dysfunction among HIV+ Ugandans and uninfected controls <i>* CFAR STAR Scholarship recipient</i>	CWRU Medical Student, Class of 2021
2018- present	Ellen Brinza 1. A Systems Biology Approach to Identifying Biomarkers of Heart Failure Risk in Chronic HIV Infection 2. Kidney disease and inflammation in Uganda 3. Uganda project TBD (2020-2021)	Cleveland Clinic Lerner College of Medicine, Medical Student CWRU MPH Global Health Concentration Class of 2022
2018- present	Matt Peters Kidney disease and cardiac dysfunction in Uganda	Internal Medicine Resident, University Hospitals Case Medical Center
2019- present	Jasmine Kipke Reproductive history and CVD risk among Ugandan women living with HIV <i>* CFAR STAR Scholarship recipient</i>	CWRU Medical Student Class of 2022
2019- present	Adham Karim Functional Mitral Regurgitation in a Tanzanian Population	Internal Medicine Resident, University Hospitals Case Medical Center
2019- present	Khendi White-Solaru HyPe The Cure (Hypertension and Peripheral artery disease Treatment in Cleveland barbershops)	Assistant Professor, Cardiovascular Medicine, University Hospitals Cleveland Medical Center

In addition to mentoring of Case Western medical students and UH residents/fellows, I am facilitating a mentoring program for Ugandan Masters of Medicine (MMed) and PhD students enrolled in the Medical Education Partnership Initiative (MEPI-CVD) at Makerere University in Kampala, Uganda. Below is a list of students who participated in the program from 2011-2014:

<u>Student</u>	<u>Title</u>	<u>CWRU Co-Mentor</u>
Ssinabulya, Isaac	Subclinical Atherosclerosis Among HIV-infected Patients Attending Mulago Hospital HIV Clinics in Uganda	Chris Longenecker
Babua, Christopher	Cardiovascular risk factors among adult patients with CKD attending a national referral hospital in east Africa	Chris Longenecker

Twinobuhungiro, Aska	Hypertension in an Urban Population in Kampala, Uganda: Risk Factors and Frequency of Target Organ Damage	Chris Longenecker
Nabunnya, Yvonne	The Safety and Efficacy of Prednisolone in Preventing Re-Accumulation of Ascites Among Endomyocardial Fibrosis Patients at Mulago Hospital: A Randomized Controlled Trial.	Richard Josephson Chris Longenecker
Kibudde, Soloman	Prevalence and Predictors of Anthracycline Toxicity at the Uganda Cancer Institute	Chantal El Amm
Nankabirwa, Harriet	Prevalence and Factors Associated with Hyponatremia among Patients Aged Sixty Years and Above With Heart Failure Attending Mulago Hospital	Jay Raihelkar
Achan, Josephine	Clinical and Angiographic Features of Patients Presenting with Myocardial Infarction at the Uganda Heart Institute	David Zidar
Nampijja, Dorah	The Prevalence and Associated Factors of Dyslipidemia Among Children with HIV Infection in Mbarara, Uganda	Grace McComsey
Muyinda, Asad	Prevalence of Cardiovascular Abnormalities among HIV-Infected Patients with Dyslipidemia in Mbarara, Uganda	Carl Orringer

I also coordinated the Case Western Co-mentorship program for two MEPI-CVD PhD students from Makerere University from 2011-2016:

<u>Faculty Member</u>	<u>Title</u>	<u>CWRU Co-Mentor</u>
Nakibuuka, Jane	Improving Stroke Outcomes in Uganda: Primary Prevention and Clinical Attributes	Anthony Furlan
Kayima, James	Epidemiology and Genetics of Hypertension in Uganda	Mahboob Rahman XiaoFeng Zhu Chris Longenecker

In 2016, a follow-up program to MEPI was initiated at Makerere University to assist with development of junior faculty at the school of medicine (NURTURE; funded by Fogarty International Center of the NIH). I have personally co-mentored the following faculty members:

<u>Faculty Member</u>	<u>Title</u>
Nakimuli, Annettee	Risk of Cardiovascular Disease After Pre-eclampsia In a Cohort of Ugandan Women.
Ssinabulya, Isaac	Inflammation, Cardiometabolic factors and 5 year outcomes among patients receiving HAART at an urban clinic, Uganda

Teaching Administration

1. Faculty Lead, Cardiology Fellowship Research Rotation

University Hospitals Harrington Heart & Vascular Institute

2018—present

* I supervise 3rd year cardiology fellows’ research projects. This includes providing 1:1 feedback at least twice yearly on each project; powerpoint presentation review for faculty review session; organizing the faculty review session at the beginning of the year and preparing for end-of-year Grand Rounds presentations.

2. Faculty Lead, World Medicine Pathway

Case Western Reserve University School of Medicine

2018—present

* I am leading an effort to develop a pathway for medical students that will provide focused career development opportunities and mentorship across all 4 years of medical school. In addition to the curriculum development and direct teaching described above, this effort involves 10 hours/month of administrative responsibility including advising students, recruiting/organizing faculty participation, fundraising/development activities, pathway leader meetings, etc...

Clinical Teaching Activities

1. UH Inpatient Cardiology Teaching Service (Hellerstein)

2013—present (150 hours/year)

* I supervise up to 1 medical student, 4 interns, 2 senior residents, and 1 cardiology fellow and provide daily bedside teaching while on service (6-8 weeks/year). This is in addition to the “chalk talk” curriculum that I have developed (see above).

2. UH Echocardiography Laboratory

2013—present (150 hours/year)

* I supervise 1 cardiology fellow in the echo lab when assigned as the daily reader (~2 shifts/month). In this context, I teach interpretation of surface echocardiograms, stress tests, and transesophageal echo procedure skills.

3. UH Special Immunology Clinic Cardiometabolic Risk Clinic

2013—present (100 hours/year)

* I supervise up to 1 or 2 residents doing continuity clinic, fellows on their preventive cardiology rotation, and/or medical students doing an HIV elective. I teach about the unique aspects of providing cardiovascular care and preventive services to people living with HIV infection.

RESEARCH SUPPORT

PENDING SCIENTIFIC REVIEW

NIH/NHLBI 7/1/2020 – 6/30/2025 2.4 cal mos
UG3/UH3 (RFA-HL-20-025) \$3,800,000
Title: PULESA-UGANDA: Strengthening the Blood Pressure Care and Treatment Cascade for Ugandans Living with HIV—Implementation Strategies to Save Lives
Role: Co-Principal Investigator

PENDING FUNDING DECISION

NIH/NHLBI 6/1/2020 – 5/31/2022 In-kind
Diversity Supplement to U01HL142099 \$479,346

Title: **Diversity Supplement to A Nurse-led intervention to extend the HIV treatment cascade for cardiovascular disease prevention (EXTRA-CVD).**

Trainee: Angela Aifah (New York University)

Role: Role: Co-Principal Investigator (contact PI)

CURRENT

UH/CWRU Department of Medicine 3/1/2020 – 2/28/2021 In-kind
Roe Green Center for Travel Medicine \$35,000

Title: **Ankle-Brachial Index Screening for Peripheral Artery Disease in Uganda: Building a Training Model and Exploring the Feasibility and Acceptability of Implementation Strategies**

Role: Principal Investigator

NIH/NIMHD 9/1/2018-8/31/2023 1.2 cal mos
R01MD013493

Title: **Pathways to cardiovascular disease prevention and impact of specialty referral in under-represented racial/ethnic minorities with HIV.**

Role: Co-Investigator

NIH/NHLBI 8/1/2018-7/31/2023 0.9 cal mos
R01HL141053

Title: **Epidemiology of coronary artery disease among people with HIV in rural sub-Saharan Africa**

Role: Co-Investigator

NIH/NHLBI 7/1/2018-6/30/2022 3 cal mos
U01HL142099 \$2,412,097

Title: **A Nurse-led intervention to extend the HIV treatment cascade for cardiovascular disease prevention (EXTRA-CVD).**

Role: Co-Principal Investigator (contact PI)

NIH/NHLBI 7/1/2018-6/30/2022 In-kind
U01HL142099-S1 \$321,128

Title: **Diversity Supplement to A Nurse-led intervention to extend the HIV treatment cascade for cardiovascular disease prevention (EXTRA-CVD).**

Trainee: Charles Muiruri (Duke University)

Role: Co-Principal Investigator (contact PI)

NIH/Fogarty 8/31/2015 – 7/31/2020 0.6 cal mos
D43TW010132 \$3,995,000

Title: **NURTURE: Research Training and Mentoring Program for Career Development of Faculty at Makerere University College of Health Sciences**

PI: Nelson Sewankambo (Makerere University)

Role: CWRU site PI

NIH/NHLBI 4/15/2014 – 3/31/2020 9 cal mos
K23HL123341 \$783,778

Title: **Pericardial fat, inflammation, and structural heart disease in HIV**

Mentor: Grace A. McComsey (CWRU SOM)

Role: Principal Investigator

COMPLETED

Gilead Sciences CTA IN-US-311-4405	9/1/2017 – 8/31/2018 \$107,251	0.6 cal mos
Title: Perceived CVD risk in people living with HIV and impact on CVD prevention		
PI: Allison Webel (CWRU School of Nursing)		
Role: Co-Investigator		
UH/CWRU Department of Medicine Team Science Challenge Grant	8/1/2017 – 7/31/2018 \$25,000	In-kind
Title: A Systems Biology Approach to Identifying Biomarkers of Heart Failure Risk in Chronic HIV Infection.		
Role: Principal Investigator		
American Heart Association Strategically Focused Research Network	7/1/2017 – 6/30/2019 \$3,700,000	0.6 cal mos
Title: Strengthening the Health System Response to Rheumatic Heart Disease: Developing Evidence-Based Strategies For Prevention		
PI: Craig Sable (Children's National Health System)		
Role: Co-investigator; CWRU site PI		
NIH/NHLBI Heart Failure Network U10 HL084904	1/1/2016 – 3/1/2018	In-kind
Title: Characterizing HIV-related Diastolic Dysfunction		
Role: CWRU/Cleveland Site PI		
CWRU CFAR CFAR Catalytic Grant	1/10/2014 – 1/09/2015 \$74,963	In-kind
Title: Combination PET/MRI as a novel marker of vascular inflammation in HIV		
PI: Grace A. McComsey		
Role: Co-investigator		
NIH/NIAID UO1AI105937	2/13/2013 – 4/15/2014 \$3,500,000	0.6 cal mos
Title: Effects of IL-6 Blockade in Treated HIV Infection		
PI: Lederman/Rodriguez		
Role: Co-investigator		
Medtronic Foundation FY13-000406	2/06/2013 – 3/31/2020 \$1,300,000	0.6 cal mos
Title: Bridging the Treatment Gap for Rheumatic Heart Disease in Sub-Saharan Africa: A Uganda—Case Western Reserve University Partnership		
Role: Project Director/Principal Investigator		
NIH/NHLBI Loan Repayment Program	7/1/2012 – 6/30/2017 \$140,000	In-kind
Mentor: Grace A. McComsey (CWRU SOM)		
Role: Principal Investigator		
NIH/NIAID T32AI052067	7/1/2012 – 6/30/2013	10.8 cal mos
Title: Research Training in Pediatric Infectious Diseases		
PI: Grace A. McComsey		
Role: Research Trainee		

Bristol-Myers Squibb Virology Fellows Grant	07/01/2012 – 06/30/2013 \$20,000	In-kind
Title: The Relationship Between Inflammation and Kidney Function in the Stopping Atherosclerosis and Treating Unhealthy Bone with Rosuvastatin in HIV (SATURN-HIV) Trial		
Mentor: Grace A. McComsey		
Role: Principal Investigator		
Bristol-Myers Squibb Virology Fellows Grant	10/28/2010 – 08/16/2011 \$30,000	In-kind
Title: The effect of vitamin D supplementation on endothelial function, inflammation and insulin resistance in HIV		
Mentor: Grace A. McComsey		
Role: Principal Investigator		
NIH/NHLBI R24TW008861	9/27/2010 – 8/31/2015 \$2,500,000	In-kind
Title: Building Capacity for Cardiovascular Research and Training in Uganda		
PI: Nelson Sewankambo		
Role: Co-Investigator; CWRU site PI		
UCSF CTSI Resident Research Grant	1/15/2009 – 3/15/2009 \$2,000	In-kind
Title: Echocardiographic signs of cardiomyopathy in asymptomatic HIV-infected pregnant women in Uganda		
Mentor: Elyse Foster		
Role: Principal investigator		

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Peer Reviewed Articles

1. **Longenecker CT**, Scherzer R, Bacchetti P, Lewis CE, Grunfeld C, and Shlipak MG. HIV Viremia and Changes in Kidney Function. *AIDS*. 2009 Jun 1;23(9):1089-96.
2. **Longenecker CT**, Mondo C, Le VV, Jensen TP, and Foster E. HIV infection is not associated with echocardiographic signs of cardiomyopathy among pregnant Ugandan women. (Research Letter) *Int J Cardiology*. 2011 Mar 3;147(2):300-2.
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7. **Longenecker CT**, Dunn WM, Jiang Y, Debanne S, McComsey GA. Adipokines and Vascular Health in Treated HIV Infection: An Obesity Paradox? (Research Letter) *AIDS*. 2013 May 15;27(8):1353-6.
8. **Longenecker CT**, Funderburg NT, Jiang Y, Debanne S, Storer N, Labbato DE, Lederman MM, McComsey GA. CD8+ T-cell activation and inflammation but not monocyte activation are associated with subclinical carotid artery disease in HIV. *HIV Medicine*. 2013 Jul;14(6):385-390.
9. Hileman CO, Carman TL, **Longenecker CT**, Labbato DE, Storer NJ, White CA, McComsey GA. Rate and Predictors of Carotid Artery Intima Media Thickness Progression in Antiretroviral-Naïve HIV-Infected and Uninfected Adults: a 48-Week Matched Prospective Cohort Study. *Antiviral Therapy*. 2013;18(7):921-9.
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