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## Education

- 1996-2000 Augustana College, Rock Island, Illinois  
Bachelor of Arts  
Major Pre-medicine, Minor Asian Studies, Summa Cum Laude
- 2000-2004 Southern Illinois School of Medicine  
Doctor of Medicine
- 2012-2014 University of Colorado- Anschutz Medical Campus  
Masters of Science in Clinical Science

## Postdoctoral Training

### Internship and Residency

- 2004-2005 Intern, Categorical Internal Medicine  
University of Nebraska Medical Center
- 2005-2007 Resident, Internal Medicine  
University of Nebraska Medical Center
- 2007-2008 Chief Resident, Internal Medicine, University Hospital  
University of Nebraska Medical Center

### Fellowship

- 2008-2011 Fellow, Infectious Diseases  
University of Colorado-Anschutz Medical Center
- 2011 Instructor/Fellow, Infectious Diseases  
University of Colorado-Anschutz Medical Center

## Academic Appointments

- 2011-2013 Instructor, Department of Medicine, Division of Infectious Diseases  
University of Colorado-Anschutz Medical Center
- 2012-2014 Assistant Program Director, Infectious Diseases Fellowship Program
- 2013-2018 Assistant Professor, Department of Medicine
- 2014-2020 Associate Program Director, Infectious Diseases Fellowship Program
- 2014-2020 Special Faculty member, Modern Human Anatomy Program and Graduate School
- 2018-present Associate Professor, Department of Medicine  
Divisions of Infectious Diseases (primary) and Geriatric Medicine (secondary)
- 2018-present Associate Professor, Department of Epidemiology

## Hospital Appointments

- 2007-2008 Attending Physician, Admission Unit, Veteran's Affairs Hospital, Omaha, NE
- 2008 Attending Physician, Internal Medicine, University of Nebraska Medical Center
- 2009-2011 Attending Physician, Infectious Diseases, Lutheran Medical Center
- 2011-present Attending Physician, University of Colorado Hospital

## Awards & Honors

- 1996-2000 Foundation Scholar, Augustana College
- 1999 Beta Beta Beta Biological Honor Society
- 1999 Lincoln Laureate, State of Illinois
- 2000 Phi Beta Kappa Honor Society
- 2000 Omicron Delta Kappa Honor Society

2000	Rock Island, IL Rotary Club Outstanding Student
2001	Illinois General Assembly Scholarship
2002	Lange Medical Scholar
2003	Alpha Omega Alpha Medical Honor Society
2004	American Medical Women's Association Glasgow-Rubin Certificate of Achievement for Outstanding Performance in Medical School
2007	Resident Research Award- University of Nebraska Department of Internal Medicine
2007	Senior Resident Award-University of Nebraska Department of Internal Medicine
2007	House Officer of the Year- Nebraska Medical Center Residency Programs
2010-2012	National Institutes of Health- Loan Repayment Program Recipient
2010-2012	Hartford Center of Geriatric Excellence Scholar
2011	Fellow of American College of Physicians
2011	Recipient of the Grants for Early Medical/Surgical Subspecialists Transition to Aging Research (GEMSSTAR) R03
2013-2015	National Institutes of Health- Loan Repayment Program Recipient
2015	University of Colorado, Women in Medicine and Science Professional Leadership Award
2015	Gilead Sciences Research Scholars Program in HIV
2016	AIDS Clinical Trials Group John A. Carey Young Investigator Award
2017	University of Colorado Department of Medicine Outstanding Early Career Scholars Program Recipient
2019	Nominated for medical student preceptor award, the "Golden Stethoscope"
2019	Tideswell Emerging Leaders in Aging Leadership Scholar

### Professional Societies

2000-2008	American Medical Association
2001-2004	Illinois State Medical Society
2004-2008	Nebraska Medical Association
2001-2013	American College of Physicians, Fellow
2008-present	Infectious Diseases Society of America & HIV Medicine Association
2011-present	American Geriatrics Society

### Local Society and Committee Appointments

2000-2001	Southern Illinois University Volunteerism Coordinator
2001-2002	Southern Illinois University Reproductive Rights Co-chair
2001-2004	Infection Control and Safety Committee-Memorial Hospital
2005-2007	Turner Park Clinic Board Member
2005-2008	Physician Work Flow Management, executive committee for EMR implementation
2006	Diagnostic Radiology Residency Internal Review Committee
2006	Internal Medicine Residency Review Committee
2006-2008	Infection Control Committee-Nebraska Medical Center
2006-2008	Department of Medicine Intern Selection Committee
2007	General Surgery Residency Review Committee
2007-2008	Graduate Medical Education Committee
2007-2008	Pharma/Industry Review Committee
2007-2008	Resident representative for Physician Practice Management -implemented lecture series for all residents on business aspects of medicine
2008	Nebraska Chapter 2008 Scientific Meeting, American College of Physicians <i>-Judge for poster presentations</i>
2009-2013	University of Colorado Hospital Antimicrobial Subcommittee
2009-2012	American College of Physicians, Board Member Colorado Council of Young Physicians
2010-2011	House Staff Association Executive Committee
2010-2011	University of Colorado Hospital Medical Board (house staff representative)
2010-present	Infectious Diseases Fellowship Candidate Interview/Review Committee
2012-2013	Denver Mayor's HIV Resources Planning Council, Steering Committee for HIV & Aging
2013-2016	Safety officer, "Measurement of Bone Marrow Transplant Derived Adipocytes" (PI Klemm)
2013-2017	University of Colorado Department of Medicine M&M Steering Committee
2013-2016	T32 HIV Training Grant Selection Committee
2015-present	Clinical Translational Science Institute Pilot Grant Reviewer
2016-2019	CO IDSA Susan Mason, MD Education Fund Selection Committee (Member)
2016-present	Clinical Translational Science Institute Pre-K Award Reviewer
2016-2019	Safety officer, "Bioequivalence of tenofovir and emtricitabine following overencapsulation" (PI Peter Anderson)
2016-present	Safety officer, "The Cellular Pharmacology of F-TAF in dried blood spots" (PI Peter Anderson)
2018-present	CU-AMC Department of Medicine Research Day-Planning Committee and Abstract Reviewer
2018-present	University of Colorado KL2 Grant Review Committee

2019-present University of Colorado CCTSI Assistant Director of the Pre-K Program  
2019-present Colorado Health Network, HIV/Aging Stakeholder Planning Committee  
2019-present University of Colorado, Dept of Medicine, Mid-Course Promotions Review Committee  
2019-present Team-Oriented Training across the Translational Sciences Spectrum (TOTTS) grant reviewer  
2020-present HIV Post-doctoral T32 Associate Program Director

#### National Societies and Committees

1998-2004 HIV/STD Educator, Red Cross Training Program  
2009-2011 Consultant Elsevier Publishing, Development Partner Program  
2011-present AIDS Clinical Trials Group Bone Complications Working Group  
2012-present AIDS Clinical Trials Group ACTG A5322 Protocol Team  
Lead on Frailty Investigations (train study personnel on administration of frailty assessments)  
2012-2016 AIDS Clinical Trials Group 5318 Protocol Team  
2012-2014 AIDS Clinical Trials Group Exercise Working Group  
2015-2017 NIH Office of AIDS Research, Working Group on HIV Biomarkers  
2015-2017 AIDS Clinical Trials Group End Organ Disease/Inflammation Transformative Science Group  
2016- AIDS Clinical Trials Group A5350 Safety Monitoring Committee  
2016 Theratechnologies Medical Advisory Consultant (one-time)  
2016 Gilead Sciences Medical Advisory Board  
2015- Scientific Committee and Organizing Committee Member of the HIV/Aging International Workshop (Invited)  
2016- HIV/Aging International Workshop Co-Chair  
2017- AIDS Clinical Trials Group A5322 Frailty/Physical Function Working Group Chair; Member of the Neurocognitive Working Group  
2017- J American Geriatrics Society Junior Reviewer Program (Mentor)  
2018- Infectious Disease Society of America Medical Scholars Committee (invited member)  
2018- AIDS Clinical Trials Group HIV/Aging Working Group Chair (invited)  
2018- Canada-International HIV & Rehabilitation Research Collaborative; member  
2018- ViiV/GSK Advisory Panel on HIV/Aging  
2019 Invited Participant: HIV and Aging: The Ryan White Program's Role in Responding (sponsored by the Ryan White Policy Project, O'Neill Institute at Georgetown Law)  
2019 NHLBI Workshop on HIV-Associated Comorbidities, Invited Participant  
2019- Invited Co-director of HIV/Aging Research and Clinical Priorities for ViiV/GSK  
2020- Abstract Reviewer for Conference on Retroviruses and Opportunistic Infections (Other Complications of ART)  
2020- Core Faculty International AIDS Society (IAS)- USA

#### Invited Grant Reviews

2012 NIH Grant Review Special Section (August 2012) 2012/10 ZRG1 AARR-K (04) M  
2013 NIH Grant Review Special Section (March 2013) 2013/05 ZRG1 AARR-K (58) R  
2013 Health Research Board, grant review (equivalent of Ireland's NIH)  
2014 South African Medical Research Council, grant review (10/2014)  
2014 American University of Beirut, grant review (10/2014)  
2015 NIH Grant Review Special Section (Feb 2015) 2015/02 ZAG1 ZIJ-3 (M1)  
2015 NIH Grant Review Special Section (Oct 2015) ZAI1-UKS-A-J1  
2016 South African Medical Research Council, grant review (2/2016)  
2016 NIH Grant Review Special Section (Dec 2016) ZRG1 AARR-J (56)  
2017 NIH Grant Review Special Section (Dec 2017) ZRG1 AARR-E (83)  
2018 NIH Grant Review Special Section (Feb 2018) ZAG1 ZIJ-3 (M1)  
2018 NIH Grant Review Special Section (Apr 2018) ZRG1 AARR-P(58)  
2018 British HIV Association External Reviewer (May 2018)  
2018 Veterans Affairs Merit Award Review for Rehabilitation Research and Development (Aug 2018)  
2018 University of Colorado CTSC KL2 Grant Reviews (August 2018)  
2018 Chinese University of Hong Kong External Grant Reviewer (October 2018)  
2018 NIH/NIA Grant Review Special Section (October 2018) U19 Review  
2018 The Dunhill Medical Trust, UK, external reviewer (December 2018)  
2019 NIH Grant Review Special Section (Feb 2019) ZAG1 ZIJ-3 (M1)  
2019 NIH/NIA Grant Review Special Section (September 2019) U19 Review  
2019 NIH Grant Review Special Section (December 2020) 2020/01 ZAI1 CB-A (J1)  
2019- NIH/NIAID Study Section Member: HIV Comorbidities and Clinical Studies

#### Certification & Licensure

2007, 2017	Diplomate, American Board of Internal Medicine
2010	Diplomate, American Board of Internal Medicine, Infectious Diseases
2004-present	Advanced Cardiac Life Support Certification (renewed 8/2014; 8/2016; 7/2018)
1993-present	Basic Life Support Certification (renewed 8/2014)
2015-present	UCH Cardiac Stress Testing Certification (January 2015)
2006-2008	Physician, Nebraska
2008-present	Physician, Colorado

### Journal Editorial/Reviews

2019	Current Opinion in HIV and AIDS- Section Editor for issue on HIV/Aging 2019
2020-2022	Editorial Board for AIDS

AIDS  
AIDS and Behavior  
AIDS Care  
AIDS Research and Human Retroviruses  
American Journal of Public Health  
Annals of Internal Medicine \*Commendation for excellent review in 2014  
Antiviral Therapy  
BMC Infectious Diseases  
BMC Public Health  
Clinical Infectious Diseases  
European J Sports Science  
HIV Clinical Trials  
HIV Medicine  
International J of Sports Medicine  
International J of STDs and AIDS  
Journal Acquired Immunodeficiency Disorder Syndromes  
Journal of American Geriatrics Society \*Commendation for excellent review in 2015  
\*mentor for JAGS Junior Reviewer Program (2017-present)  
Journal of Antimicrobial Chemotherapy  
Journal of Clinical Epidemiology  
Journal of Frailty and Aging  
Journal of Gerontology: Medical Sciences  
Journal of Infectious Diseases  
Journal of NeuroVirology  
Journal of Palliative Medicine  
Journal of Physical Activity and Aging  
Journal of Sports Sciences  
Lancet HIV  
Nutrition and Diabetes (Nature)  
Reviews in Clinical Pharmacology  
Open Forum Infectious Diseases  
Pathogens and Immunity  
PLOS ONE  
Scandinavian Journal of Sports Medicine  
Scientific Reports  
World Health Organization Bulletin

### Teaching Experience

#### Courses & Small Group Teaching

1998-2000	Teaching assistant for Microbiology & Vertebrate Zoology, Augustana College, Rock Island, IL
2007-2008	Internal Medicine Chief Resident University of Nebraska, Omaha, NE
2010	Introduction to Clinical Medicine in Nicaragua, Augustana College, Rock Island, IL 2012
2010-2011	Chief Fellow, University of Colorado, Infectious Disease Fellowship Program
2010-present	Instructor, Infectious Diseases (IPT6004), University of Colorado, School of Medicine
2017	EPID 7911, Principles in Clinical Research, fieldwork mentor (see below)
2019	Lecturer for CLSC 7101 on "Pearls for K Award Grant Applications"
2020	COVID-1 Course Mentor

#### Lectures for Students, Residents and Fellows

2010	Statistical Consulting (BIOS 6621), Guest Speaker, University of Colorado, Graduate School
2012	"Case Studies in Adult Vaccination"; Resident and Fellow Infectious Diseases Lecture Series

- 2013 Lecture, HIV Outpatient Clinic: "When to start ART"
- 2013 Lecture, HIV Outpatient Clinic: "HIV and Bone Disease"
- 2013 "Case Studies in Adult Vaccination"; Resident and Fellow Infectious Diseases Lecture Series
- 2013 "A PICC Line Neglected is a PICC Line Infected", Morbidity & Mortality Conference, Department of Medicine
- 2014 Lecture, HIV Outpatient Clinic: "CROI 2014: Updates in HIV-related comorbidities and Aging Complications"
- 2014 Lecture, Internal Medicine Primary Care Track Residents; "HIV and Aging"
- 2015 Lecture, Resident and Fellow Infectious Diseases Lecture Series "2015 Update in Adult Vaccination"
- 2015 Lecture, HIV Outpatient Clinic: "Updates in the STD Treatment Guidelines"
- 2015 Lecture, Internal Medicine Primary Care Track Residents; "HIV and Aging"
- 2016 Lecture, HIV Outpatient Clinic: "HIV and Bone Disease"
- 2016 Lecture, Resident and Fellow Infectious Diseases Lecture Series "2016 Update in Adult Vaccination"
- 2016 Lecture, HIV Outpatient Clinic: "Lipodystrophy and Obesity Management"
- 2017 Lecture, Seminar Series for Masters in Human Anatomy Program, "HIV and Skeletal Muscle"
- 2017 Panel member, Career pathways for Internal Medicine
- 2018 Lecture, Resident and Fellow Infectious Diseases Lecture Series "HIV and Aging"
- 2018 Lecture, Swedish Family Medicine, "Updates in HIV Medicine for the Primary Care Provider"
- 2018 Lecture, ID Fellows Didactics: "2018 Update in Adult Vaccination"
- 2018 Panel member, Career pathways for Internal Medicine
- 2019 Lecture, Resident and Fellow Infectious Diseases Lecture Series "HIV and Aging"
- 2020 Lecture, University of California Los Angeles SAPHIR Program Lecture "HIV and Aging: Cases"

Clinical Outpatient Teaching

- 2011-2017 Infectious Disease Fellow Continuity Clinic, Clinic Preceptor (ad hoc)
- 2013 Director, Infectious Disease Fellow Continuity Clinic
- 2013-present HIV Primary Care Rotation, Clinical Preceptor, Internal Medicine Residency Program
- 2014-present HIV Clinic, Clinical Preceptor, Swedish Family Medicine Residency Program
- 2014-present HIV Clinic, Clinical Pharmacy Student Preceptor/Shadowing
- 2015-present HIV Outpatient Elective, UCD Internal Medicine Residency Program
- 2017 Medical student clinic shadowing (Nik Johs)
- 2017 Pre-medical student inpatient shadowing (Jinnie Tinianow)
- 2017 Pre-medical student inpatient shadowing (Stefan Adrian)
- 2017-2019 Foundations of Doctoring preceptor (Alex Stable, PhD, MSIII, IV)

ID Fellowship Program Educational Programs, Initiatives, and Achievements (in conjunction with Program Director and Coordinator)

- 2012-present Select candidates for interviews, interview fellow applicants, determine rank list of applicants
- 2012-present Develop and maintain fellow schedules
- 2012-present Schedule and coordinate case conference presentations, fellow feedback on presentations
- 2013-present Initiated and continue to lead the ID M&M/Quality Improvement case review/presentations
- 2013 Initiated outpatient ID fellow clinic lecture curriculum
- 2013-present Infectious Diseases Fellowship, Clinical Competency Committee (Chair)
- 2013-present Infectious Diseases Fellowship, Program Evaluation Committee (Chair)
- 2014-present Developed an "ID Bootcamp" series of lectures focused on high-yield topics for new fellows
- 2014 Initiate and maintain ID Quality Improvement Database for faculty, fellows, residents
- 2015 Established new ID training electives (neuro ID, Zimbabwe rotation)
- 2015 Implemented ID "mental retreat" for stress relief during first year
- 2015 Established outpatient ID elective for medicine residents
- 2015 Established inpatient ID rotation dedicated to first year residents
- 2016- Established database of research mentors and projects
- 2016- Infectious Disease Fellowship, Fellow Research Committee (Chair)
- 2016- Design/implement 2<sup>nd</sup> year fellowship clinical training tracks
- 2017 Re-structure didactics to a half-day of lectures (overwhelmingly favored by fellows)
- 2017 Restructure fellowship schedule for a 4 week clinical- 2 week other structure
- 2017 Develop a jeopardy call system for sick leave/emergencies
- 2018, 2019 Mock fellowship interviews for DOM residents (for all fellowships)

**Current and Prior Mentees/Mentoring Committees**

Name	Degree Program	Years	Project Topic	Outcome(s)	Current/Post-graduation position
<i>Students (MS, MD, RN, PhD)</i>					
Fazdai	Masters	2014-	Muscle quality in HIV	Thesis mentor	Research coordinator

Masawi	Human Anatomy	2016		-Oral Abstract at International Conference on Sarcopenia and Frailty, Philadelphia -Oral presentation at Research and Creative Activities Symposium, Denver, -Published manuscript in AIDS "Antiretroviral initiation is associated with increased skeletal muscle area and fat content"	Moffitt Cancer Center, Tampa, FL
Hadlai Neff	MPH	2015-2017	Barriers to Exercise in HIV	Practicum and capstone mentor -Poster presentation at 7 <sup>th</sup> International Workshop on HIV and Aging, Washington DC -Published manuscript "Turning disability into ability: barrier and facilitators to initiating and maintaining exercise among older men living with HIV" in <i>AIDS Care</i> -Co-author publication in <i>BMJ Open</i> 2019	Data analyst at Pfizer
Nikolas Johs	MD	2016-2019	Barriers to Exercise	Published paper from MS II-IV project "Understanding Barriers and Motivators to Exercise in HIV using the Socioecological Mode" in <i>BMJ Open</i> 2019 Published paper from MS I summer project "Disability among middle-aged and older persons with human immunodeficiency virus infection" in <i>Clin Infect Dis</i> 2017	Internal Medicine resident, University of Washington HIV training track (2020-22)
Brian Hixon	MPH	2016-2018	Sleep and Exercise in HIV	Practicum and Capstone on impact of exercise intervention on sleep quality. -Presented data as poster presentation at HIV/Aging International Workshop 2017 -"A Supervised Exercise Intervention Fails to Improve Subjective and Objective Sleep Measures Among Older Adults with and without HIV" submitted and under review at <i>Clinical Sleep Medicine</i>	Data analyst at Kaiser Permanente, Denver, CO
Lilyana Gross	MS Biostats	2016-2017	Marijuana and QoL	Thesis Co-Mentor; "Marijuana use on quality of life outcomes in HIV-infected and uninfected Men" -Manuscript in progress	Data analyst at Pharmapace Inc, San Diego, CA
Stefan Adrian	MS Anatomy	2016-2018	Muscle quality in HIV	Primary thesis mentor -Abstract presented as poster at International AIDS Society, Paris France 2017 Published "The Growth Hormone Releasing Hormone Analogue, Tesamorelin, Decreases Muscle Fat and Increases Muscle Area in Adults with HIV" in <i>J Frailty and Aging</i> 2019.	Research assistant with me
Delayna Goulding	MPH	2017-2019	Quality of life with exercise	Practicum and capstone mentor -Abstract presented as poster at the International Workshop on HIV/Aging, NYC 2017 -Manuscript published: "Supervised exercise intervention fails to improve depressive symptoms and quality of life among sedentary older adults with HIV infection" <i>AIDS Care</i> 2019.	Data analyst, Texas Department of Public Health, Austin, TX
Carly Worthington	Nurse specialist	2017	Body composition	Certified Nurse Specialist in Adult and Geriatric care research rotation -Abstract on Self-reported body composition changes with exercise intervention presented at International Workshop on HIV/Aging, NYC 2017	Nurse at University of Colorado Hospital
Stephanie Fukui	MD	2017	Inflammation	Mentored scholarly activity between 1 <sup>st</sup> and 2 <sup>nd</sup> year of medical school. Prepared and published a review on inflammation and frailty: "Inflammation Strikes Again: Frailty and HIV", <i>Curr HIV/AIDS Report</i> 2018.	Medical student
Subada Soti	MD	2017	NAFLD	Mentored scholarly activity between 1 <sup>st</sup> and 2 <sup>nd</sup> year of medical school. Prepared and published a review on NAFLD in HIV: "NAFLD and HIV: do sex, race, and ethnicity explain HIV-associated risk?", <i>Curr HIV/AIDS Rep</i> 2018.	Medical student
Christian Dide Agossou	PhD Epi	2017-2018	Nutrition	Mentored coursework (EPID 7911) on clinical trials design, protocol development, and institutional review board training during Fall 2017 semester. Protocol IRB approved and project implemented by another student.	Graduate research assistant National Jewish Health, CO
Melissa Wilson	MS Biostats	2017-2020	HIV and physical function	Worked as research assistant during MS Thesis co-mentor on non-ignorable drop out and sampling strategies. Thesis manuscript in progress. -Presented 1 oral and 1 poster presentation at the International HIV/Aging Workshop, NYC 2018 -Biostatistics co-author on multiple manuscripts	Data analyst in bioinformatics at University of Colorado
Alex Stabell	MD/PhD	2017-2019	Physical activity and HIV	HIV continuity clinic mentor Analyzed pedometer data from Exercise for Healthy Aging -Poster presented at Comorbidities and Adverse Drug Reactions International Conference, New York City, NY October 2018 -Manuscript accepted at JAIDS "The Impact of a Structured, Supervised Exercise Program on Daily Step Count in	Internal Medicine resident at Columbia University, NYC

				<b>Sedentary Older Adults With and Without HIV</b>	
Brianna Wolford	MPH	2018-2019	Food insecurity	Masters Capstone and Thesis on Nutrition, Food Insecurity and Frailty among older adults with HIV.	
Elizabeth Bloemen	MD, MPH	2018-2019	Elder abuse	Advisor on infectious aspects of sexual abuse in the older adults. -Manuscript in preparation	Internal medicine resident University of Colorado
Regan Pelloquin	MD	2018-present	Frailty and HIV	Mentored Scholarly activity on Frailty and Mortality in the ID clinic. -Presented poster at the American Geriatrics Society, Portland OR 2019 -Presented poster at the International HIV/Aging Workshop NYC 2019 -Manuscript under review at JAIDS	Student
Amelia Davis	MD	2018-present	Geriatric consultations	-Recipient of 2020 IDSA GERM Student Grant Summer research project on "Piloting a Geriatric Consultative Service within an HIV Clinic"	
Mona Abdo	PhD Epi	2018-present	Frailty/COPD in HIV	PhD Thesis co-mentor on Frailty and COPD -Presented (poster) abstract at HIV/Aging Workshop on advanced directive completion. -Presented (poster) GALLIP Research Day on microbiome and physical function -Presented (poster) DOM Research Day on frailty & death -"Examining mortality to identify opportunities for improved care among adults with HIV in a single academic medical center", published in AIDS Res Hum Retroviruses 2019 -" End of Life Planning Prior to Death among Individuals with HIV", published in J Nurses AIDS Care 2020 -T32 Recipient in Physiology of Aging -Recipient of the 2020 Hamman-Hoffman Award in Epidemiology	
Lauren Heery	MD	2020-present	Health disparities	T32 Predoctoral recipient to explore health disparities in COVID-19 outcomes (primary mentor)	Current student
Lauren Barbera	MD	2020-present	HIV and COVID-19	Mentor for medical school mentored scholarly activity Project on HIV and COVID-19	Current student
Caroline Vance	MD	2020-present	COVID-19 and thromboembolic disease	Mentor for medical school mentored scholarly activity Project on COVID-19 and thromboembolic disease	Current student
Brenda La	MD	2020-present	COVID-19 and long-term outcomes	Mentor for medical school mentored scholarly activity Project on COVID-19 and impact on post-hospitalization recovery	Current student

**Residents (MD/DO or PharmD)**

Amber Striefel, Pharm D	ID Pharm	2014-2016	Zoster vaccine	Primary Research Mentor for ID residency project -Published manuscript: "Low Rates of Vaccination for Herpes Zoster in Older People Living With HIV" AIDS Res Hum Retroviruses 2018	OPAT Pharmacist University of Oregon
Alex Novin, Pharm D	ID Pharm	2015-2016	Zoster vaccine	Research co-mentor for ID residency project -Poster presentation on "ARV Pharmacokinetics in Bariatric Surgery" -Completed project by prior resident and published manuscript: "Low Rates of Vaccination for Herpes Zoster in Older People Living With HIV" AIDS Res Hum Retroviruses 2018	Faculty at University of Colorado Hospital System, Memorial Hospital, Colorado Springs
Swati Mathur, MD	Resident	2017-2019	Mental health medications	Investigated gender differences in mental health management within the ACTG HAILO cohort. --Abstract presented as poster at ID Week 2018 --Manuscript published in JAIDS 2019, "Detrimental Effects of Psychotropic Medications Differ by Sex in Aging People With HIV"	ID Fellow at University of Colorado
Adam Ressler, MD	Resident	2017-2019	Mortality in ID clinic	Change in mortality in UCH ID Clinic from 1996- present --Abstract presented as poster at ID Week 2018 --Manuscript published in AIDS Research and Human Retroviruses 2019 "Examining Mortality to Identify Opportunities for Improved Care Among Adults with HIV in a Single Academic Medical Center" --" End of Life Planning Prior to Death among Individuals with HIV", published in J Nurses AIDS Care 2020	ID Fellow at University of Michigan
Tevedzerai Grace Nykika, MD	Resident	2019-	Frailty and HIV	Resident physician at Parirenyatwa Hospital in Zimbabwe. --Dissertation mentor/committee member for project "Prevalence of frailty in people with HIV at Parirenyatwa Hospital's Outpatient HIV Clinic".	Current resident

<b>Fellows (Post-Doctoral PharmD or MD/DO Infectious Diseases)</b>					
Sharon Seifert, PharmD	Pharmacology	2014-2018	Tenofovir drug levels	Research committee and secondary mentor --Oral presentation at the Clinical Pharmacology of HIV & Hepatitis Therapy conference --1 published review: "Inflammation and pharmacokinetics: potential implications for HIV-infection" Expert Opin Drug Metab Toxicol 2017. --Published JAIDS in 2018: "Brief Report: Adherence Biomarker Measurements in Older and Younger HIV-Infected Adults Receiving Tenofovir-Based Therapy". --Poster abstract to HIV/Aging workshop 2019	Research pharmacist at Children's Hospital
Kelly Hawkins, MD, MPH	ID Fellow	2016-2018	Obesity in HIV	-Awarded T32 in Obesity ---Awarded Health Sciences Research Development Grant to explore zoster vaccination rates in Veterans, estimate vaccine efficacy, and determine the effect of obesity of zoster incidence -- Abstracts presented at International AIDS Society (Paris 2017) and CROI, Boston 2018 -- Invited review on sarcopenia in HIV, published in AIDS (2/2017): "Geriatric syndromes: new frontiers in HIV and sarcopenia" -- Explored the impact of obesity on frailty and neurocognitive function: "Abdominal obesity, sarcopenia, and osteoporosis are associated with frailty in men living with and without HIV" (AIDS 2018) and "Midlife adiposity predicts cognitive decline in the prospective Multicenter AIDS Cohort Study" Neurology 2019 --Zoster project published in JAIDS 2018: "Herpes Zoster and Herpes Zoster Vaccine Rates Among Adults Living With and Without HIV in the Veterans Aging Cohort Study: and AIDS Res Hum Retrovirus 2018 Low Rates of Vaccination for Herpes Zoster in Older People Living With HIV.	Assistant professor at Denver Health
Jay Liu, MD PhD	ID Fellow	2015-2019	Microbiome and HIV	-successfully obtained Mucosal Immunity Program Pilot Grant and T32 support --Primary results published in EBioMedicine 2019: "Among older adults, age-related changes in the stool microbiome differ by HIV-1 serostatus"	ID attending at Northwestern University-affiliated program
Mary Clare Masters, MD MPH	ID Fellow	2018-present	Glycemia and function in HIV	-Northwestern University Endocrinology, Diabetes and Hormone Action T32 Training grant -Co-mentor on project investigating frailty and insulin resistance among men with and without HIV in the MACS Cohort -Poster presented at CROI 2019, Seattle -Oral abstract presented at HIV/Aging Workshop NYC 2019 -Manuscript published AIDS Res Hum Retroviruses 2019: "Gait Speed Decline Is Associated with Hemoglobin A1C, Neurocognitive Impairment, and Black Race in Persons with HIV" -Manuscript published Curr Opin HIV AIDS 2019: "Forging new frontiers in HIV and aging"	ID faculty at Northwestern University, Chicago, IL  Mentor on her NIH GEMSSTAR R03, for supporting aging research among sub-specialists
Chelsea Springer, MD	Geriatrics Fellow	2018-2019	Geriatric consultations	Presented an abstract on a patient case from our HIV/aging clinical consultation model at AGS 2019	Private practice geriatrics
Julia Boster, MD	Hepatology/GI Fellow	2020-present	Sarcopenia in Children with Liver Disease	Co-Mentor on 2020 Advanced/Transplant Hepatology Award through the American Association for the Study of Liver Disease (AASLD) Masters Program Final Exam Committee Member	Current fellow
Swati Mathur, MD	Infectious diseases fellow	2020-present	COVID-19 and sex differences		Current fellow
<b>Junior Faculty</b>					
Raenne Moore, PhD	Assistant Professor Psychology	2017-present	Falls in HIV	Co-mentor on Gilead Sciences Young Investigator Award: "Remote sensing technology to improve community-based fall risk assessment and prevention among older adults with HIV"	Assistant Professor at University of California, San Diego
Sara Bares, MD	Assistant Professor ID	2018-present	INSTI-associated weight gain & women	Mentor for competitive ACTG Minority Investigator Award Leading ACTG DACS 348 "Longitudinal Changes in Weight in Persons Initiating and Switching ART"	Assistant Professor at University of Nebraska
Lakshmi Chauhan, MD	Assistant Professor ID	2018-present	Stewardship in geriatric clinic	Abstract accepted to the Presidential Poster Session at the American Geriatric Society Meeting: "Approaches to decrease inappropriate antibiotic use in acute respiratory conditions in a geriatric clinic"	Assistant Professor University of Colorado



Shelli Farhadian, MD PhD	Assistant Professor, Neurology & ID	2019-present	Polypharmacy in older HIV	R21 submitted to NIH/NIA on CNS effects of polypharmacy in HIV	Assistant Professor Yale University
Michelle Haas, MD	Assistant Professor ID	2019-present	TB in older adults	Primary mentor on K23 on Frailty as a Predictor of Adverse Effects with TB Treatment	Assistant Professor Denver Public Health
Stephanie Dillion PhD	Assistant Professor ID	2019-present	Microbiome in HIV/aging	Mentoring committee member	Assistant Professor University of Colorado
Jing Sun, MD, PhD, MPH	Assistant Professor Epidemiology	2019-present	Epigenetic changes with HIV/aging	Epigenetic modifications in HIV/aging Co-mentor on K23	Assistant Professor Johns Hopkins University
Sudipa Sarkar, MD	Assistant Professor Endocrinology	2020-present	Lipid alterations with HIV	HDL proteomic alterations with HIV and aging Co-mentor on K23	Assistant Professor Johns Hopkins University
Maheen Abidi	Assistant Professor	2020-present	Frailty and transplantation	Co-Primary Mentor on NIH K23	Assistant Professor University of Colorado

### Invited Local Lectures/Presentations

#### Institutional Presentations

- 2001 "Lakota Healing Traditions", Southern Illinois School of Medicine, Springfield, IL
- 2001 "Cross-Cultural Healing", Southern Illinois School of Medicine, Springfield, IL
- 2003 "Healthcare in Ghana", Southern Illinois School of Medicine, Springfield, IL
- 2004 "*Alcaligenes xylosoxidans* as a Cause of Septic Arthritis", Omaha Citywide Infectious Disease Conference, Omaha, NE
- 2006 "A Disheartening Cough: Aspergillus in Heart Transplantation", Omaha Citywide Infectious Disease Conference, Omaha, NE
- 2007 "Cases in Solid Organ Transplantation", Senior Seminar, University of Nebraska, Omaha, NE
- 2007 "Pearls for Internal Medicine Wards", Internal Medicine Intern Orientation, University of Nebraska, Omaha
- 2008 "From Sudan to Omaha: Our Refugee Population", Internal Medicine Grand Rounds, University of Nebraska, Omaha, NE
- 2010 "Complications of Our Success: Frailty in an Aging HIV Population", Infectious Diseases Grand Rounds, UC Denver
- 2010, 2012 "Infectious Diseases as a Career Option", Medical student Internal Medicine Fair, UC Denver
- 2010 "HIV as a Model of Premature Frailty", Geriatric Grand Rounds, UC Denver
- 2011 "Consequences of Aging in the Current HIV Era", IMAGE Group Scientific Advancement, UC Denver
- 2011 "Immune Dysfunction in HIV-Related Frailty", Division of Infectious Diseases, Research in Progress, UC Denver
- 2011 "The Intersect of Aging and HIV Infection", Division of Infectious Diseases Grand Rounds, UC Denver
- 2011 CROI Oral abstract presentations, Division of Infectious Diseases, Research in Progress, UC Denver
- 2011 Oral abstract presentations, Scientific Advancement, UC Denver
- 2012 "Infectious Diseases as a Career Option", Medical student Internal Medicine Fair, UC Denver
- 2013 "HIV and Aging: Causes and Consequences", Department of Medicine, Research and Innovation Conference, UC Denver
- 2014 "HIV, Frailty, and Functional Impairment", Division of Infectious Disease, Research in Progress, UC Denver
- 2014 "Cytomegalovirus Immune Response and Functional Impairment in HIV", Master's Thesis Presentation, UC Denver
- 2015 "An overview of PREPARE", IMAGE Group Scientific Advancement, UC Denver
- 2015 "Exercise for Healthy Aging", IMAGE Group Holiday Update, UC Denver
- 2017 "HIV and Frailty: Underlying Causes and Potential Treatment Strategies", Division of Infectious Disease, Grand Rounds, UC Denver
- 2019 "A Case of Weight-Gain While on ART", Division of Infectious Disease, Case Conference, UC Denver

#### Invited Regional Presentations

- 2009 Bugs and Drugs Symposium, Denver, CO: "Infections in the Elderly"
- 2010 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO "HIV and Aging",
- 2012 Denver HIV Resources Planning Council Annual Retreat, Denver, CO; "The Intersect of Aging and HIV"
- 2012 Denver Public Health Symposium On the Frontlines 2012: Information for Community HIV/AIDS Health Workers; Denver, CO: "HIV and Aging"
- 2013 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "Exercise to Lessen the Impact of Aging in HIV Infection"
- 2013 "Implementing the CDC Recommendations for Immunizations in Adults", Fall Faculty Family Medicine Review, Denver, CO
- 2013 Mountain Plains AIDS Education and Training Center, TeleHealth Initiative; televised from

- 2013 Denver, CO: "Eight Treatment Strategies in the Older Adult with HIV Infection"  
Denver Health HIV Clinical Care Conference, Denver, CO: "HIV and Aging: Causes, Consequences, and Treatment Strategies",
- 2014 Colorado AIDS Education and Training Center, HIV Update; Denver, CO: "CROI 2014: Updates in HIV-related comorbidities and Aging Complications"
- 2014 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "CROI 2014: Updates in HIV-related comorbidities and Aging Complications"
- 2014 Mountain Plains AIDS Education and Training Center, TeleHealth Initiative; televised from Denver, CO: "HIV and Bone Disease"
- 2015 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "CROI 2015: Updates on Aging and HIV-related Co-Morbidities"
- 2015 Colorado AIDS Education and Training Center, HIV Update; Denver, CO: "CROI 2015: Updates in HIV-related comorbidities and Aging Complications"
- 2015 Western Infectious Diseases, Wheatridge, CO: "Treatment Strategies for HIV in 2015"
- 2016 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "CROI 2016: Updates on Aging and HIV-related Co-Morbidities"
- 2016 Colorado AIDS Education and Training Center, HIV Update; Denver, CO: "CROI 2016: Updates in HIV-related comorbidities and Aging Complications", April 2016
- 2017 HIV Treatment Education Network, Denver CO: "CROI 2017: Updates in HIV-related Comorbidities and Aging Complications", March 2017
- 2017 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "The PREPARE Study and Statins at CROI 2017", April 2017
- 2017 Colorado AIDS Education and Training Center, HIV Update; Denver, CO: "CROI 2017: Updates in HIV-related comorbidities and Aging Complications", May 2017
- 2017 HIV Treatment Education Network, "Fat in HIV: friend or foe?" ; October 2017, Denver, CO
- 2018 Colorado Physician Assistant Conference; February 2018; "Top Updates in HIV for the Primary Care Provider"; Copper Mountain, CO
- 2018 HIV Treatment Education Network, "Inflammation-related Research in the ACTG", February 2018, Denver, CO
- 2018 Colorado AIDS Education and Training Center, HIV Update; Denver, CO: "CROI 2018: Updates in HIV-related comorbidities and Aging Complications", May 2018
- 2019 AIDS Clinical Trials Unit Community Advisory Board, Denver, CO: "CROI Updates"
- 2019 HIV Treatment Education Network, Denver CO: "CROI 2017: Updates in HIV-related Comorbidities and Aging Complications", April 2019
- 2019 Colorado Health Network: Managing Sleep with Aging, April 2019
- 2019 Colorado Health Network: Managing Falls with Aging, April 2019
- 2019 Western Infectious Diseases HIV Updates: "Weight gain with INSTIs", November 2019
- 2020 AIDS Clinical Trials Unit Community Advisory Board, July 2020, Denver, CO: "Introducing Geriatric Care in the HIV Clinic"

#### Invited National/International Presentations

- 2014 Harvard Muscle and Aging Symposium Series: HIV and Aging. Invited Speaker on "Physical Function and Frailty in HIV"; Boston, MA. Invited by Monty Montano, PhD.
- 2015 International Conference on Frailty and Sarcopenia Research 2015, Invited Speaker on "Frailty in HIV and Aging, the Colorado Experience", Boston, MA. Invited by Deborah Gustafson, PhD.
- 2015 AIDS Clinical Trials Group Immune Activation Working Group, speaker and moderator on: "Frailty, Aging, and Biomarkers"; (teleconference presentation). Invited by Alan Landay, PhD and Cara Wilson, MD.
- 1/2016 La Fundacio Lluita contra La Sida, Germans Trias i Pujol University Hospital. 1st National Workshop on Aging in HIV-Infected Populations, Barcelona, Spain, Invited speaker on "Frailty and HIV, invited by Eugenia Negroed, MD.
- 2/2016 Session Moderator at CROI 2016: "Complications from Head to Toe".
- 2/2016 AIDS Clinical Trials Group Inflammation Transformative Science Group: "Metabolic and Bone Complications: CROI 2016".
- 3/2016 Theratechnologies Medical Advisory Board: "Skeletal Muscle in HIV: the often forgotten other component of body composition"; invited by Christian Marsolais; Los Angeles, CA.
- 4/2016 New York Academy of Sciences, New York, New York; Conference on Disease Drivers of Aging. "From Wasting to Obesity", Invited by the Scientific Organizing Committee (Comprised of members of the NIH, Gerontologic Society of America, American Federation for Aging Research, and the NY Academy of Sciences)
- 6/2016 AIDS Clinical Trials Group Inflammation Transformative Science Group: "Physical Function and Frailty in HIV: Growing Old Gracefully"; invited by Turner Overton; Washington, DC.
- 8/2016 Colorado State University, Department of Health and Exercise Sciences Seminar (invited by Karyn Hamilton and Benjamin Miller); "From Wasting to Obesity: HIV in 2016"; Fort Collins, CO
- 9/2016 Multicenter AIDS Cohort Study, Aging Working Group "HIV and Frailty" (teleconference)
- 1/2017 AIDS Clinical Trials Group Global Community Advisory Board, "HIV, Aging, Muscle, and the PREPARE Study"
- 6/2017 AIDS Clinical Trials Group Annual Meeting;

Frailty, Disability, Falls, and the Central Nervous System

Where Have We Been? Body Composition and Physical Function in the ITSG  
Sex-specific issues in the HAIO Study

- 11/2017 Association of Nurses in AIDS Care, Dallas, TX: "Management of the Older Adult with HIV", invited by Jeffrey Kwong, Nurse Practitioner
- 11/2017 La Fundacio Lluita contra La Sida, Workshop on Aging in HIV-Infected Populations, Buenos Aires, Argentina, Invited speaker on "Frailty and HIV, invited by Eugenia Negredo, MD.
- 4/2018 AIDS Education and Training Center, Galveston, TX: "HIV and Frailty"
- 4/2018 AIDS Education and Training Center, Lexington, KY: "Considerations in the Management of Older Adults with HIV"
- 6/2018 AIDS Clinical Trials Group, Inflammation Transformative Science Think Tank "Frailty and Exercise in Older Adults with HIV: Why the ACTG Should Support Research in Physical Activity and Exercise", Washington DC (Invited by Turner Overton, MD)
- 8/2018 University California San Diego, Presentation to STAHR Program; "HIV and Frailty: My Career Pathway" (Invited by David Moore, PhD)
- 8/2018 ViiV Health HIV/Aging Advisory Panel: "Physical Function and Exercise in Older Adults with HIV"; Philadelphia, PA (invited by Charles Hicks, MD)
- 9/2018 La Fundacio Lluita contra La Sida, Workshop on Aging in HIV-Infected Populations, Barcelona, Spain; "Exercise in Older Adults with HIV: The Prescription for Functional Impairments?" (Invited by Eugenia Negredo, MD, PhD)
- 10/2018 Harvard CFAR/Pepper Center HIV & Aging Workshop; Boston, MA (Invited by Monty Montano, PhD)
- 10/2018 Gilead Sciences HIV Advisory Panel on Weight Gain with ART: "Weight Change through Non-ART Interventions"; invited by Moupali Das, MD
- 11/2018 University of California, Los Angeles; Center Tough Decisions Made Easier Conference (Invited by Judith Currier, MD).
- 3/2019 IAS-USA Annual Update on HIV; "Management of Comorbidities in Older Adults with HIV, New York, City, New York.
- 3/2019 ViiV Pharmaceuticals, HIV and Aging Training, "Incorporating Physical Function and Frailty into Clinical Practice and Research"
- 4/2019 Practice Point Communications Q1 Quarterly Brief Interview with Dr. Paul Sax
- 5/2019 American Geriatrics Society, HIV/Aging Symposium, invited speaker on "HIV and Aging in the Clinic: Considerations for The ID Provider"
- 5/2019 American Geriatrics Society, GEMSSTAR Award Presentations, invited speaker on "Reflections of a Prior GEMSSTAR Awardee on HIV and Aging"
- 6/2019 AIDS Clinical Trials Group Symposium Presentation:
- 8/2019 University California San Diego, Presentation to STAHR Program; "HIV and Frailty: My Career Pathway" (Invited by David Moore, PhD)
- 9/2019 Curbside Consults: "Difficult Cases in HIV", CME event sponsored by NJ Health, NYC, NY
- 11/2019 14<sup>th</sup> International Congress of Geriatrics, Opportunities and Challenges of Geriatric Practice: "HIV/AIDS in the Older Adult" and "HIV and Physical Activity", Mexico City, Mexico
- 3/2020 Practice Point CME, "CROI 2020 Updates"
- 4/2020 Clinical Care Options CME, "Updates in ART Management"
- 5/2020 Practice Point CME, "Management of the Older Adult with HIV"
- 7/2020 International AIDS Society-USA (CME): "Frailty and HIV"
- 8/2020 National Ryan White Conference on HIV Care and Treatment, Invited Symposium Chair and Speaker: "Caring for Older People Living With HIV: Moving Beyond Viral Suppression to Promote Healthy Aging"

**Professional Development**

- 2009 Writing and Obtaining Informed Consent, Colorado Clinical and Translational Science Institute
- 2009 Recruitment for Clinical Trials, Colorado Clinical and Translational Science Institute,
- 2009 Clinical Trials Training for Investigators and Coordinators, Colorado Clinical and Translational Science Institute
- 2009 Your Research: The Building Blocks of Proposals. Office of Research and Development, University of Colorado
- 2009 How To Teach. Teaching in the Small Group Setting. Academy of Medical Educators, University of Colorado
- 2010 How To Teach. Designing and Delivering a Course (or a Lecture). Academy of Medical Educators. University of Colorado
- 2010 How To Teach. How to Give a Research Talk. Academy of Medical Educators, University of Colorado
- 2010 Clinical Reasoning Seminar. Academy of Medical Educators. University of Colorado
- 2010 Time Management in Academic Medicine. Academy of Medical Educators. University of Colorado
- 2010 Graph Pad Prism, Biostatistics Software Short Course. Colorado Biostatistics Consortium.
- 2011 Gait and Falls Risk Competency Certification, American Geriatric Society

- 2012 Designing Clinical Cases for Teaching and Assessment. Academy of Medical Educators. University of Colorado
- 2014 Hartford Foundation, Change AGENTS Communications Conference (invited participant), Chicago, IL
- 2014 Clinical Competency Committees, Milestones and EPAs: How do I do all of this?; Academy of Medical Educators, University of Colorado
- 2015 Junior Faculty Mentoring Program (JUMP), University of Colorado
- 2015 GEMSSTAR NIH Sponsored Symposium on Frailty in the Subspecialties (invited participant), Bethesda, MD
- 2015 American Association of Medical Colleges Early Career Women Faculty Professional Development Seminar (invited participant), Englewood, CO
- 2015-2016 Responsible Conduct of Research Training, University of Colorado-Anschutz
- 2016 GEMSSTAR NIH Sponsored Symposium on Models of Aging (invited), Bethesda, MD
- 2017 Teaching in a Small Group, Academy of Medical Educators; University of Colorado
- 2017 Department of Medicine Survival Skills: Finance 101
- 2017 American College of Physicians, Maintenance of Certification Program (3/2017)
- 2017 American Physiological Society, Physiological Bioenergetics: Mitochondria-From Bench to Bedside; San Diego, CA (8/27-30)
- 2018 Foundations of Bias Workshop, University of Colorado Dept of Medicine
- 2018 Mentoring the Mentors Workshop for HIV Researchers, UCSF, San Francisco, CA
- 2018 GEMSSTAR NIH Sponsored Symposium on Cognition in Aging (invited), Bethesda, MD
- 2018 Clinical and Translational Research Center Innovation Lab (selected participant), "Staying Power: Developing Lifestyle Interventions that Last", Warrenton, VA.
- 2019-20 Tideswell Leadership Develop in Aging program

### Community Activities

- 1996-2007 Habitat for Humanity 1996-2007
- > Volunteer in Omaha, Springfield, Carbondale and Quad Cities
  - > Led a medical student team to Florida for spring break home build
  - > Board member for City of Springfield Chapter 2003-04;
  - > Board member for Augustana Chapter 1997-2000
  - > Augustana Chapter President 1999-2000
- 2000 International Service Learning-Health development in Nicaragua and Costa Rica
- 2002-2004 Enos School 2<sup>nd</sup> grade tutor
- 2003 International Health and Development (health development in Ghana, West Africa)
- 2004, 05, 07 Stand-down for Homeless Veterans
- 2005-2008 One World Community Health Center-volunteer at the indigent tuberculosis clinic, Omaha, NE
- 2009-2010 Clinica Tepeyac-volunteer at medical student run indigent care clinic, Denver, CO
- 2010 Joining Education Through Service (JETS), volunteer physician with Augustana College-led medical trip to Nicaragua
- 2016-- Cottonwood Elementary School, classroom parent volunteer
- 2017-- Healthy Kids Running Series, parent volunteer
- 2017-- Girl Scouts of America, member and parent volunteer
- 2019 Denver Forum on HIV/Aging at Colorado Health Network

### Active Research Support

Next50 Initiative (Sunshine)

Evaluation of the Healthy Aging with HIV Wellness Research Program 7/1/2020-6/30/2021

In collaboration with the Colorado Health Network, this grant will test the feasibility and acceptability of a community-based program for wellness, including exercise, nutrition, and mindfulness.

Role: Consultant

T32 AI150547-01A1 (Campbell)

07/01/2020-06/30/2025

NIA/NIAID

Training Program for Antiretroviral Discovery, Evaluation and Application Research (ADEAR)

This training grant supports post-doctoral candidates to conduct research focused on ART discovery, evaluation and application.

Role: Associate Program Director

Effort: 0.6 calendar month

R21 AG062380 (O'Brien)

07/01/2019-06/30/2021

NIH/NIA

Advancing Assessment of Episodic Disability to Enhance Healthy Aging among Adults with HIV: Developing a Short-Form HIV Disability Questionnaire (HDQ) for use in Clinical Practice. This project is developing shorter version of a disability questionnaire for use in clinical practice and piloting administration at 3 sites.

Role: Co-PI

Total Annual Direct: \$136,960

Effort: 1.05 calendar

Gilead Science (Erlandson and Lake) 02/1/2020-01/31/2022

Explorations into the Mechanisms of INSTI-associated Weight Change

This investigator initiated study will investigate mechanisms of weight change in people taking integrase inhibitors through assessment of energy expenditure.

UM1AI068636 (Currier) 6/1/2019-11/30/2021

AIDS Clinical Trials Group, Protocol A5371

The network grant covers salary support for Dr. Erlandson as co-chair of the A5371, SLIM LIVER Study of semaglutide for non-alcoholic fatty liver diseases in individuals with suppressed HIV.

Role: Investigator and protocol co-chair

Effort: 0.63 calendar

Total support: \$12,500 annual direct cost to Erlandson

1 R01AG066562-01 (Erlandson and Webel) 4/15/2020-3/30/2025

NIH/NIA

High-Intensity Exercise to Attenuate Limitations and Train Habits (HEALTH) in Older Adults with HIV

The HEALTH study is a two-site randomized clinical trial testing the effects of High Intensity Interval Training and Continuous Moderate Intensity exercise on important clinical (physical function and fatigue), translational (mitochondrial bioenergetic mechanisms), and public health (exercise sustainability) outcomes underpinning the healthspan of older adults living with HIV.

Role: PI

Effort: 3.48 calendar

Total direct annual cost: \$499,756 annual direct cost

U01HL142103-01 (Au, Crothers, Helfrich) 11/1/2018-10/31/2022

Advancing care for COPD in people living with HIV by Implementing Evidence-based management through proactive E-consults (ACHIEVE)

This project will test an intervention to increase the uptake of effective, evidence-based care and to de-implement inappropriate therapies for COPD in HIV-infected patients.

Role: Site PI

Overlap: None

Effort: 0.89 calendar

Total direct:

1R01AG054366-01A1 Erlandson (PI) 7/1/2016-6/30/2021

Pitavastatin to REduce Physical Function Impairment and FRailty in HIV (PREPARE)

The overall goals of this proposal are to determine whether the HMG-coA reductase inhibitor, pitavastatin, can attenuate the aging-related decline in physical function in older HIV-infected persons, and to identify the critical pathways underlying physical function impairment.

Effort: 4.2 cal 7/2019-6/2021

Total direct + indirect: \$2,915,719

Department of Medicine Outstanding Early Career Scholars Program Erlandson (PI) 7/1/2017-6/30/2022

HIV as a Model for Premature Frailty

This award to advance understanding of the mechanistic pathways through which interventions can improve muscle function, how these pathways differ between HIV-infected and -uninfected participants, and how these pathways can inform the development of more effective interventions.

Role: PI/Awardee

Total direct: \$375,000

**Completed Research Support**

ACTG Minority HIV Investigator Mentoring Program (MHIMP) 7/1/2018-11/30/2019

Dr. Kristine Erlandson will serve as a mentor to Dr. Sara Bares and will serve as a co-chair for her proposal investigating the impact of antiretroviral therapy on weight gain in persons with HIV. She will co-lead team conference calls, hold biweekly mentoring phone calls, meet in-person at 3 conferences/year, will oversee data analysis, data presentation, and preparation of manuscripts for publication in scientific journals.

Role: PI/Mentor  
Effort: 0.30 cal

University of Colorado School of Medicine

Clinical Effectiveness and Patient Safety Small Grant Chauhan (PI) 7/25/2018-7/24/2019

Outpatient Antimicrobial Stewardship Project to improve antibiotic prescribing in Upper Respiratory Infections in Seniors Clinic  
This award is a collaboration between investigators in infectious diseases, pharmacy, and geriatrics to decrease inappropriate prescriptions in a sustainable way.

Role: Co-investigator  
Total direct: \$14,700

1-UL1 RR 025780-01 Sokol (PI) 1/1/2015-12/31/2018

Colorado Clinical and Translational Science Institute

The Clinical and Translation Science Institute awarded a microgrant to provide research support for laboratory and nursing services.

Effort: None

Total direct: \$30,000

GI and Liver Innate Immune Program Pilot/Feasibility Award Erlandson (PI) 9/15/2016-9/14/2018

The Impact of HIV-induced Dysbiosis on Intestinal Barrier Dysfunction and Inflammation in Older Adults

The objective of this pilot award to is explore differences in the microbiome by HIV serostatus and measure changes in the microbiome that occur with exercise.

Role: PI

Effort: None

Total direct: \$25,000

Gilead Sciences Research Scholars Program in HIV Erlandson (PI) 4/1/2015-11/29/2017

Moderate- or High- Dose Exercise to Attenuate Inflammation in HIV and Aging

The goal of this research award is to understand the appropriate "dose" of exercise to result in the most favorable responses in terms of reduction in inflammation, improvement in physical function and body composition, and participant compliance/retention in an exercise program.

Effort: None

Total direct + indirect: \$130,000

K23 AG050260-02A1 Erlandson (PI). 9/15/2014-9/30/2020 (NCE)

The Impact of HIV and Aging on Physical Function and the Somatopause

The goal of this career development award is the understand the role of age-associated or HIV-associated declines in insulin-like growth factor (IGF)-1 and physical function in older adults with well-controlled HIV infection, and to provide mentored support in developing a research career in academic medicine.

Effort: 9 cal

Total direct + indirect: \$896,940

K23 AG050260-02S1 Erlandson (PI) 9/30/2015-4/30/2017

Barriers and Facilitators to Exercise Maintenance

The overall objective of this supplemental award is to investigate the effects of health and social disparities on exercise uptake and continuation among older HIV-infected and HIV-uninfected adults in a clinical exercise study.

Effort: (included in K23 parent)

Total direct + indirect: \$49,113

University of Colorado Proteomics Pilot Award Jankowski (PI) 2/1/2015-5/1/2015

Discovering the Proteomic Signature of HIV-Sarcopenia

The goal of this pilot award is to utilize new advancements in proteomics to explore potential differences in the profile of HIV-infected middle aged adults with or without sarcopenia. This pilot funds the completion of complete transcriptome profile of 12 samples, and provides bioinformatics support.

Effort: 1%

- T32 AI007447-01 Campbell (PI) 9/1/2009-8/31/2011  
NIH/DHHS Colorado HIV Research Training Program  
Immune Activation and Inflammation in the Development of HIV-Related Frailty  
The goal of this mentored research project is to investigate the role of inflammation and immune activation in the development of frailty and physical dysfunction in HIV-infected persons, as well as to explore other mechanisms leading to early frailty.  
Role: Trainee  
Funding: Salary support  
Mentors: Thomas Campbell, Wendy Kohrt
- GlaxoSmithKline HIV Clinical Investigator Research Award Erlandson (PI) 1/1/2010-8/31/2011  
Immune Activation and Inflammation in the Development of HIV-Related Frailty  
The goal of this research project is to investigate the role of inflammation and immune activation, immune senescence, and body composition changes in the development of frailty and physical dysfunction in HIV-infected persons.  
Role: PI  
Total direct + indirect: \$65,000
- P30 DK048520 NIH/NIDDK Hill (PI) 7/1/2010-1/31/2016  
*Nutrition Obesity Research Center (NORC)*  
NORC provides assistance in densitometry for the study Immune Activation and Inflammation the Development of HIV-Related Frailty
- John A. Hartford Center of Excellence Award Schwartz (PI) 7/1/2010-6/30/2014  
Immune Activation and Inflammation in the Development of HIV-Related Frailty  
The goal of this mentored research project is to investigate the role of inflammation and immune activation in the development of frailty in HIV patients, as well as provide career support in developing a research career in academic geriatric medicine.  
Funding: \$125,000
- 1-R03AG040594-01 Erlandson (PI) 8/1/2011-7/31/2014  
Mechanisms of Frailty in HIV-1 Infection  
The goal of this project is to investigate the role of chronic CMV infection, microbial translocation, and polymorphisms in T-cells in the development of HIV-related frailty.  
Role: PI  
Total direct + indirect: \$153,000

## Bibliography

**Published Peer-reviewed Research:** publications by mentees/trainees indicated by \*

1. Havener G. Roth M. Arakere P. Mottar R. Barenfanger J. Mace K. Effective Investigation and Control of an Aspergillus Outbreak in a Regional Burn Unit. *Journal of Burns and Wounds* 2004; 1-3.
2. Erlandson KM. Sun J. Iwen P. Rupp ME. Impact of the More Potent Antibiotics Linezolid and Quinupristin/dalfopristin on Outcome Measures of Patients with Vancomycin-Resistant Enterococcus Bacteremia. *Clinical Infectious Diseases* 2008. 46: 30-36. PMID: 18171210.
3. Erlandson KM. Allshouse A. Duong S. MaWhinney S. Kohrt WM. Campbell TB. HIV, Aging, and Advance Directives: Are we successfully planning for the future? *Journal of Palliative Medicine* 2012; 15: 1124-9. PMID: 22694717.
4. Erlandson, KM. Allshouse A. Jankowski CM. Duong S. MaWhinney S. Kohrt WM. Campbell TB. A Comparison of Functional Status Instruments in HIV-Infected Adults on Effective Antiretroviral Therapy. *HIV Clin Trials* 2012; 13: 324-34. PMID: 23195670
5. Erlandson, KM. Allshouse A. Jankowski CM. Duong S. MaWhinney S. Kohrt WM. Campbell TB. Risk Factors for falls among HIV-infected Persons. *J Acq Immun Def Syndrome* 2012; 61: 484-9. PMID: 23143526.
6. Erlandson KM, Allshouse A, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Functional Impairment is Associated with Low Bone and Muscle Mass among Persons Aging with HIV-infection, *J Acq Immun Def Syndrome* 2013; 63: 209-15. PMID: 23392468.
7. Erlandson KM. Allshouse AA. Jankowski CM. Lee EJ. Rufner KM, Palmer B. Wilson CC. MaWhinney S. Kohrt WM. Campbell TB. Association of Functional Impairment with Inflammation and Immune Activation in HIV-1-Infected Adults on Effective Antiretroviral Therapy. *J Infect Dis* 2013; 208: 249-59. PMID: 23559466
8. Erlandson KM. Kitch D. Tierney C. Sax PE. Daar ES. Tebas P. Melbourne K. Ha B. Jahed N. McComsey GA. Weight and lean body mass change with antiretroviral initiation and impact on bone mineral density. *AIDS* 2013; 27: 2069-79. PMID: 24384588.
9. Erlandson KM. O'Riordan MA. Labbato D. McComsey GA. Relationships between inflammation, immune activation and bone health among HIV-infected adults on stable antiretroviral therapy. *J Acq Immuno Def Syndrome* 2014; 65: 290-8. PMID: 24525466.
10. Erlandson KM. Gudza I. Fiorillo S. Ndemera B. Schooley RT. Gwanzura L. Borok M. Campbell TB. Relationship of Vitamin D Insufficiency to AIDS-associated Kaposi's Sarcoma Outcomes: Retrospective Analysis of a Prospective Clinical Trial in Zimbabwe. *Int J Infect Dis* 2014; 24: 6-10. PMID: 24769175.

11. [Erlandson KM](#), Kitch D, Tierney C, Sax PE, Daar ES, Melbourne K, Ha B, McComsey GA. Impact of randomized antiretroviral therapy initiation on glucose metabolism: AIDS Clinical Trials Group study A5224s. *AIDS* 2014; 28: 1451-61. PMID: 24637543.
12. Miller C, Baker JV, Bormann AM, [Erlandson KM](#), Hullsiek KH, Justice AC, Neuhaus J, Paredes R, Petoumenos K, Wentworth D, Winston A, Wolfson J, Neaton JD. Adjudicated Morbidity and Mortality Outcomes by Age Among Individuals with HIV Infection on Suppressive Antiretroviral Therapy. *PLOS One* 2014; 9: e95061.
13. [Erlandson KM](#), Allshouse AA, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Relationship of physical function and quality of life among persons aging with HIV infection. *AIDS* 2014; 28: 1939-43. PMID: 24992000.
14. [Erlandson KM](#), Reynolds SM, Cox C, Palella FJ, Witt MD, Kingsley LA, Brown TT, Plankey M. Self-reported body fat change in HIV-infected men is a marker of decline in physical health-related quality of life with aging, independent of co-morbidity. *PLOS One* 2014; 9: e114166 (doi 10.1371/journal.pone.0114166); PMID:25436612.
15. Barocas JA\*, [Erlandson KM](#), Belzer BK, Hess T, Sosman J. Advance directives among people living with HIV: room for improvement. *AIDS Care* 2015; 29: 175-82. PMID: 25307722.
16. [Erlandson KM](#), Jiang Y, Debanne SM, McComsey GA. Effects of rosuvastatin on bone and body composition among HIV-infected adults on antiretroviral therapy. *AIDS* 2015; 29: 175-92. PMID: 25396266.
17. Allshouse AA, MaWhinney S, Jankowski CM, Kohrt WM, Campbell TB, [Erlandson KM](#). The impact of marijuana use on the successful aging of HIV-infected adults. *J Acquir Immun Defic Syndr* 2015; 69: 187-92. PMID: 25647530.
18. [Erlandson KM](#), Campbell TB. Inflammation in Chronic HIV Infection; What can we do? *J Infect Dis* 2015; 212: 339-42. PMID: 25583171.
19. [Erlandson KM](#), O'Riordan MA, Hileman CO, Rapaport E, Labbato D, Campbell TB, McComsey GA. Plasma sclerostin is associated with bone and cardiovascular disease markers in HIV-infected adults on effective antiretroviral therapy. *AIDS Res Hum Retroviruses*. 2015; 31: 731-8. PMID: 25919636.
20. Schrack JA, Althoff KN, [Erlandson KM](#), Jamieson BD, Koletar SL, Phair J, Ferrucci L, Brown TT, Margolick JB. Accelerated decline in gait speed in HIV-infected older men. *J Acquir Immune Defic Syndrom* 2015; 70: 370-6. PMID: 26102450.
21. [Erlandson KM](#), Allshouse AA, Rapaport E, Palmer BE, Wilson CC, Weinberg A, MaWhinney S, Campbell TB. Physical function impairment of older, HIV-infected adults is associated with cytomegalovirus immunoglobulin response. *AIDS Res Hum Retroviruses* 2015; 31: 905-12. PMID: 26061347.
22. [Erlandson KM](#), Tajaroenkul S, Smeaton L, Gupta A, Singini IL, Lama JR, Mngqibisa R, Firnhaber C, Wagner Cardoso S, Kanyama C, Machado da Silva AL, Hakim JG, Kumarasamy N, Campbell TB, Hughes MD. A randomized comparison of anthropomorphic changes with first and second-line efavirenz-based antiretroviral regimens in diverse multi-national settings. *Open Forum Infect Dis* 2015; 2: ofv095. PMID: 26213694
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#### Invited Reviews

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#### Case Reports (Peer Reviewed)

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## Abstracts

- Mace K, Dworkin M. An outbreak of pertussis among adults and children in Rock Island County, IL. Presented as a poster at the *Illinois American College of Physicians Meeting*, Chicago, IL 2003.
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- Erlandson KM, Allshouse A, Duong S\*, MaWhinney S, Kohrt W, Campbell T. HIV, Aging, and Advanced Directives: Are we successfully planning for the future? Presented in the *Presidential Poster Section of the American Geriatrics Society Annual Meeting*, May 2011.
- Erlandson KM, Allshouse A, Duong S\*, MaWhinney S, Kohrt W, Campbell T. Frailty is associated with psychiatric disease, chronic pain, and poor quality of life in aging HIV-1 infected individuals. Presented as an e-poster at the *6<sup>th</sup> International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention*, Rome, Italy 2011.
- Erlandson KM, Allshouse A, Duong S\*, MaWhinney S, Kohrt W, Campbell T. Prevalence and risk factors for frailty in HIV-1 infected individuals on suppressive antiretroviral therapy. Presented as a poster at the *6<sup>th</sup> International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention*, Rome, Italy 2011.
- Erlandson KM, Allshouse A, Wilson C, MaWhinney S, Kohrt W, Campbell T. Frailty in HIV-1 infected individuals is associated with immune activation and inflammation but not immune senescence. Presented as a *late-breaker poster* at the *6<sup>th</sup> International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention*, Rome, Italy 2011.
- Erlandson KM, Allshouse AA, Jankowski C, Duong S\*, MaWhinney S, Kohrt WM, Campbell TB. A prospective comparison of three functional assessments with the Veterans Aging Cohort Study index in virologically suppressed HIV-infected Adults. *Presented as an oral abstract at the 2<sup>nd</sup> International HIV and Aging Workshop*, Baltimore, MD 2011.
- Erlandson KM, Allshouse AA, Jankowski CM, Duong S\*, MaWhinney S, Kohrt WM, Campbell TB. Prevalence of and risk factors for frequent falls in HIV-infected persons. *Presented as an oral abstract at the 2<sup>nd</sup> International HIV and Aging Workshop*, Baltimore, MD 2011.
- Erlandson KM, Allshouse AA, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Functional Impairment is Associated with Low Bone and Muscle Mass in Middle-Aged HIV-1 Infected Persons. *Presented as poster presentation at 19<sup>th</sup> Conference on Retroviruses and Opportunistic Infections*, Seattle, WA, March 2012.
- Erlandson KM, Allshouse AA, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Lean and fat mass are stronger predictors of impaired functional status than bone. *Presented as an oral abstract at the 3<sup>rd</sup> International HIV and Aging Workshop*, Baltimore, MD, November 2012.
- Erlandson KM, Kitch D, Tierney C, Sax PE, Daar ES, Tebas P, Melbourne K, Ha B, Jahed N, McComsey GA. Change in Lean Body Mass and Association with Bone Mineral Density Change in Subjects Randomized to ABC/3TC or TDF/FTC with ATV/r or EFV: ACTG A5224s. *Accepted for poster presentation at the 20<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, March 2013*.
- Erlandson KM, Allshouse AA, Rapaport R, Jankowski CM, Wilson CC, MaWhinney S, Kohrt WM, Campbell TB. Impaired Physical Function and Frailty are Associated with Cytomegalovirus Immunoglobulin G Antibody Concentration in Middle-Aged Adults with HIV. *Presented as a poster at the 20<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, March 2013*.
- Allshouse AA, MaWhinney S, Jankowski CM, Kohrt KM, Campbell TB, Erlandson KM. Comparisons of Disease Burden, Physical Function and Quality of Life between HIV Patients that use Marijuana and those who do not. *Presented as an oral abstract at American Public Health Association Annual Meeting* November 2013, Boston

- Erlandson KM, Gudza I, Fiorillo S, Ndemera B, Schooley RT, Gwanzura L, Borok M, Campbell TB. Vitamin D Insufficiency in AIDS-associated Kaposi's Sarcoma in Zimbabwe. *Accepted for poster presentation at the 21<sup>st</sup> Conference on Retroviruses and Opportunistic Infections, March 2014.*
- Erlandson KM, Kitch D, Tierney C, Sax PE, Daar ES, Melbourne K, Ha B, McComsey GA. Impact of Randomized Antiretroviral Therapy (ART) Initiation on Glucose Metabolism: ACTG A5224s. *Accepted for poster presentation at the 21<sup>st</sup> Conference on Retroviruses and Opportunistic Infections, March 2014.*
- Erlandson KM, Allshouse AA, Rapaport R, Palmer BE, Wilson CC, MaWhinney S, Campbell TB. Cell-Mediated CMV Responses in HIV-Infected Persons with Impaired Physical Function. *Accepted for poster presentation AND themed poster discussion at the 21<sup>st</sup> Conference on Retroviruses and Opportunistic Infections, March 2014.*
- Erlandson KM, Allshouse AA, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Physical Function Impairment on Quality of Life among Persons Aging with HIV Infection. *Accepted for poster presentation AND themed poster discussion at the 21<sup>st</sup> Conference on Retroviruses and Opportunistic Infections, March 2014.*
- McComsey GA, Jiang Y, Erlandson KM, Debanne S. Rosuvastatin improves hip bone mineral density but worsens insulin resistance. *Oral presentation at the 21<sup>st</sup> Conference on Retroviruses and Opportunistic Infections, March 2014.*
- Jankowski CM, Erlandson KM, Allshouse AA, MaWhinney S, Campbell TB, Kohrt WM. Serum IL-6 predicts poor physical function in middle-aged HIV+ adults. *Presented at the poster presentation at the American College of Sports Medicine Annual Meeting, May 2014.*
- Erlandson KM, Allshouse AA, Rapaport R, Palmer BE, Wilson CC, MaWhinney S, Campbell TB. Cell-Mediated CMV Responses in HIV-Infected Persons with Impaired Physical Function. *Presented in the Presidential Poster Session, American Geriatrics Society Annual Meeting, May 2014*
- Erlandson KM, Allshouse AA, Jankowski CM, MaWhinney S, Kohrt WM, Campbell TB. Physical Function Impairment on Quality of Life among Persons Aging with HIV Infection. *Presented in the poster presentation, American Geriatrics Society Annual Meeting, May 2014*
- Erlandson KM. Longitudinal trends in body composition and the association with physical function impairments. *Multicenter AIDS Cohort Study Annual Meeting, Metabolic and Aging Working Group. May 2014.*
- Barocas JA, Erlandson KM, Belzer BK, Hess T, Sosman J. Advance directives among people living with HIV: room for improvement. *Presented as poster presentation at ID Week 2014.*
- Erlandson KM, Reynolds SM, Cox C, Palella FJ, Witt MD, Kingsley LA, Brown TT, Plankey M. Longitudinal relationships between self-reported body fat changes and physical and mental health-related quality of life. *Presented as Oral abstract at the HIV Comorbidities and Adverse Drug Reactions Workshop, 10/2014.*
- Erlandson KM, Gupta N, Lama JR, Sugandhavesa P, Mwelase T, Balagopal A, Asmuth D, Campbell TB, Gupta A. Obesity and inflammation in resource-diverse settings of ART initiation. *Accepted for poster presentation and themed poster discussion at CROI 2015.*
- Erlandson KM, Jiang Y, Debanne SM, McComsey GA. Long term changes in Bone Mineral Density and Insulin Resistance on Statins in HIV. *Accepted for poster presentation at CROI 2015.*
- Natsag J\*, Sellmeyer DE, Haberlen S, Margolick J, Jacobsen L, Palella F, Koletar S, Lake J, Erlandson KM, Post W, Brown TT. HIV infection is associated with increased thigh muscle cross sectional area and lower muscle attenuation on CT in men age 40-70 years. *Accepted for poster presentation ENDO 2015, San Diego, CA.*
- Erlandson KM, Reynolds S, Jacobsen LP, Margolick J, Dobs AS, Palella F, Lake JE, Kingsley L, Brown TT. A frailty-related phenotype in HIV+ men is associated with increase inflammation and hormonal dysregulation. *Accepted for oral presentation at the International Conference on Frailty and Sarcopenia Research.*
- Wester CW, Jenkins CA, Koethe JR, Freeman A, Kalayjian R, Mendes A, Abraham A, Lake JE, Erlandson KM, Sterling TR, Moore RD, Shepherd BE. Association between angiotensin receptor blocker and angiotensin converting enzyme inhibitor exposure and all-cause mortality in HIV-infected adults. *Accepted to the 19<sup>th</sup> International Workshop on HIV Observational Databases, Catania, Sicily, March 2015.*
- Grant P, Kitch D, McComsey G, Collier A, Koletar S, Erlandson KM, Yin M, Bartali B, Ha B, Melbourne K, Brown T. Long-term bone mineral density changes in antiretroviral-treated HIV-infected individuals. *Accepted for the 8<sup>th</sup> IAS Conference on HIV Pathogenesis, Treatment and Prevention. July 2015.*
- Erlandson KM, Li X, Margolick JB, Abraham A, Lake JE, Palella JP, Koletar SL, Brown TT. Long-term impact of HIV wasting on physical function in the Multicenter AIDS Cohort Study. *Presented as a poster presentation at the 6<sup>th</sup> International HIV and Aging Workshop, 10/2015*
- Erlandson, KM, Zhang L, Schrack J, Lake JE, Althoff K, Margolick J, Palella F, Koletar SL, Jacobson LP, Brown TB. Changes in Weight and Body Composition Across the Lifespan Among HIV+ and HIV- Men and Women. *Presented as a poster presentation at the 6<sup>th</sup> International HIV and Aging Workshop, 10/2015*
- Schrack JA, Althoff KN, Jacobson LP, Erlandson KM, Jamieson BD, Koletar SL, Phar J, Ferrucci L, Brown TT, Margolick JB. Age-related strength decline is accelerated in HIV-infected men. *Presented as a poster presentation at the 6<sup>th</sup> International HIV and Aging Workshop, 10/2015.*
- Lake, JE, Li X, Palella FJ, KM Erlandson, Wiley D, Kingsley L, Jacobson LP, Brown TT. Metabolic health across the body mass index spectrum in HIV-infected and HIV-uninfected men. *Oral presentation at the HIV Comorbidities and Adverse Drug Reactions Workshop, 10/2015.*
- Grant P, Kitch D, Erlandson KM, McComsey G, Collier A, Lake JE, Bartali B, Koletar S, Yin MT, Ha B, Brown TB. Long-term Body Composition Changes in Antiretroviral-treated HIV-Infected Individuals. *Oral presentation at the HIV Comorbidities and Adverse Drug Reactions Workshop, 10/2015.*
- Erlandson KM, Kitch D, Wester CW, Kalayjian R, Overton TO, Castillo-Mancilla J, Koletar SL, Benson C, Robertson K, Lok J. Statin or ACE/ARB Effects on Neurocognitive Function of HIV-Infected Adults. *Poster*

- presentation at the Conference on Retroviruses and Opportunistic Infections, 2016*
- Erlandson KM. W K. Kalayjian R. Koletar SL. Taiwo B. Palella FJ. Tassiopoulos K. Factors Associated with Limitations in Daily Activity Among Older HIV+ Adults. *Poster presentation at the Conference on Retroviruses and Opportunistic Infections, 2016.*
- Erlandson KM. W K. Kalayjian R. Koletar SL. Taiwo B. Palella FJ. Tassiopoulos K. Frailty is Associated with NNRTI-based Initial ART and Modifiable Risks in ACTG 5322. *Poster presentation at the Conference on Retroviruses and Opportunistic Infections, 2016.*
- Masawi F\*. Fiorillo S. Lake JE. McComsey GA. Brown TT. Scherzinger A. Erlandson KM. Psoas muscle area and muscle fat infiltration before and after antiretroviral therapy initiation in HIV infection. *Oral presentation at the International Conference on Frailty and Sarcopenia, Philadelphia, PA. 4/2016.*
- Seifert SM\*. Castillo-Mancilla JR. Erlandson KM. Clayton C. Zheng JH. Bushman LR. MaWhinney S. Anderson PL. Cumulative tenofovir exposure is associated with decreased BMD in young and old HIV-infected adults on tenofovir based regimens. Oral presentation at *17th International Workshop on Clinical Pharmacology of HIV & Hepatitis Therapy*; Washington D.C. June 2016.
- Lake JE. Wilhalme H. Tseng CH. Grant PM. Erlandson KM. Price JC. Palella FJ. Kingsley LA. Budoff M. Post WS. Brown TT. The liver fat score as a predictor of fatty liver disease in HIV-infected men. *Poster presentation at the HIV Comorbidities and Adverse Drug Reactions Workshop, 9/2016, New York, NY.*
- Neff H\*, Jones J, Jankowski CM, Erlandson KM. Transitions from disability to ability: a qualitative study to understand exercise barriers in older, HIV-infected adults. Presented as a poster at the HIV and Aging International Workshop, 10/2016, Washington DC,
- Erlandson KM. W K. Kalayjian R. Koletar SL. Taiwo B. Palella FJ. Tassiopoulos K. Factors Associated with Limitations in Daily Activity Among Older HIV+ Adults. Oral presentation at the HIV and Aging International Workshop, 10/2016; Washington, DC.
- Tassiopoulos K. Abdo M. Koletar SL. Palella FP. Taiwo B. Erlandson KM. Frailty status and risk of falls in HIV-infected older adults in the ACTG A5322 study. Presented as an oral abstract at the HIV and Aging International Workshop, Washington DC 10/2016.
- Johs N\*, Neff H\*, Jones J, Jankowski CM. Erlandson KM. The social ecological model as a framework for understanding physical activity barriers, motivators, and facilitators in HIV-infected older adults. Poster presentation at the UCD-AMC Department of Medicine Research Day, 10/2016.
- Novin AR\*, MacBrayne CE, Langess JA. Bushman LR. Micke KC. Schoen JA. Kiser JJ. Erlandson KM. Dolutegravir concentrations in an HIV-infected Roux-en-Y bypass patient: a case report. Poster presentation at MAD-ID.
- Erlandson KM. Abdo M. Robertson K. Koletar SL. Kalayjian R. Taiwo B. Palella FJ. Tassiopoulos. Frailty has a stronger association than neurocognitive impairment with poor outcomes. Conference on Retroviruses and Opportunistic Infections, Seattle, February 15, 2017; Abstract #665
- Tassiopoulos K. Abdo M. Koletar SL. Palella FJ. Taiwo B. Erlandson KM. Frailty status and risk of falls in HIV-infected older adults in the ACTG A5322 Study. Conference on Retroviruses and Opportunistic Infections, Seattle, February 15, 2017; Abstract #666.
- Erlandson KM. Zhang L. Jacobson LP. Becker J. Munro CA. Lake JE. Martin E. Levine A. Brown TT. Sacktor N. Effects of Age and obesity on neurocognitive performance in the MACS Cohort. Conference on Retroviruses and Opportunistic Infections, Seattle, February 15, 2017; Abstract #356.
- Erlandson KM. Lake J. Sim M. Falutz J. Prado C. Silva AR, Brown TT, Guaraldi G. Bone mineral density at the hip declines twice as quickly among HIV-infected women than men; Abstract WEPEB0506; International AIDS Society Conference, Paris, France 2017
- Hawkins KL\*. Zhang L. Ng D. Althoff KM. Palella FJ. Kingsley LA. Jacobson LP. Margolick JB. Lake JE. Brown TT. Erlandson KM. Abdominal obesity, sarcopenia, and osteoporosis are strongly associated with frailty in the MACS cohort; WEPEB0526; International AIDS Society Conference, Paris, France 2017.
- Erlandson KM. Adrian S. Scherzinger A. Sanyal A. Lake J. Falutz J. Dubé M. Stanley T, Grinspoon S. Mamputu JC, Marsolais C. Brown TT. The growth hormone releasing hormone analogue, tesamorelin, decreases muscle fat and increases muscle area in HIV-infected adults WEPEB0531; International AIDS Society Conference, Paris, France 2017.
- Lake JE. Erlandson KM. Sim MS. Prado CM. Domingues da Silva AR. Brown TT. Guaraldi GG. Falutz J. Trunk Fat Increases Consistently in HIV-Infected Adults on Antiretroviral Therapy, with Patterns Differing by Sex. Accepted as poster presentation at the HIV Comorbidities Conference; Milan, IT 2017.
- Hixon B\*, Burgess H, MaWhinney S, Jankowski CM, Erlandson KM. HIV-Infected Older Adults have Poorer Subjective Sleep Quality than Age-Matched Uninfected Controls. Presented as a poster at the International Workshop on HIV and Aging, New York, NY, October 2017.
- Worthington CN\*, Jankowski CM. MaWhinney S. Erlandson KM. Differences in Body Image Self-Perception among Older HIV-Infected and Uninfected Men. Presented as a poster at the International Workshop on HIV and Aging, New York, NY, October 2017.
- Goulding D\*, Gross L, MaWhinney S. Jankowski CM, Erlandson KM. HIV Serostatus is Associated with Greater Baseline Subjective and Objective Fatigue among Older Adults. Presented as a poster at the International Workshop on HIV and Aging, New York, NY, October 2017.
- Hawkins KL\*, Gordan KS, Levin MJ, Weinberg A, Battaglia C, Rodriguez-Barradas M, Brown ST, Rimland D, Justice A, Tate J, Erlandson KM. Herpes zoster and zoster vaccine rates among HIV-infected and uninfected adults in the VACS. Presented as a poster at CROI 2018, Boston, MA. (#800)
- Kelly S, Wu K, Tassiopoulos K, Erlandson KM, Koletar SL, Palella FJ. Functional status associated with

- cardiovascular disease and diabetes in HIV+ adults. Presented as a poster at CROI 2018, Boston, MA. (#676).
- Lake JE, Erlandson KM, Adrian S, Sanyal A, Scherzinger A, Dube M, Stanley TL, Grinspoon SK, Mamputu JC, Marsolais C, Brown TT, McComsey GA. Tesamorelin improves fat quality independent of changes in fat quantity. Presented as a poster at CROI 2018, Boston, MA. (#736).
- Lake JE, Moser C, Johnston L, Magyar C, Nelson SD, Erlandson KM, Brown TT, McComsey GA. Fat quality is independently associated with cardiometabolic risk in HIV infection. Presented as a poster at CROI 2018, Boston, MA (#737).
- Erlandson KM, MaWhinney S, Wilson MP, Gross L, McCandless SA, Kohrt WM, Schwartz R, Brown TT, Campbell TB, Jankowski CM. Effects of HIV status on functional benefits of exercise in older sedentary adults. Presented as a poster at CROI 2018, Boston, MA (#755).
- Wilson M\*, Jankowski C, MaWhinney S, Rapaort R, Kohrt W, Brown TT, Erlandson KM. Exercise-Induced Inflammatory Changes among Older Adults with and without HIV. Presented as an oral abstract at the HIV/Aging International Workshop 2018, New York, NY (#3).
- Lake J, Feng H, Miao H, La K, Somasunderam A, Erlandson KM, Corey K, Utay N. Hepatic steatosis is common in both younger and older adults living with HIV and associated with divergent immune-metabolic profiles. Presented as an oral abstract at the HIV/Aging International Workshop 2018, New York, NY (#7).
- Wilson M\*, Jankowski C, MaWhinney S, Rapaort R, Kohrt W, Brown TT, Erlandson KM. Acute Exercise-Induced Inflammatory Response among Older Adults with and without HIV. Presented as a poster abstract at the HIV/Aging International Workshop 2018, New York, NY (#18).
- Abdo M\*, Ressler A\*, MaWhinney S, Johnson S, Erlandson K. Advanced directives and medical power of attorney assignment in individuals with HIV. Presented as a poster abstract at the HIV/Aging International Workshop 2018, New York, NY (#32).
- Erlandson KM, Zhang L, Ng D, Althoff K, Palella F, Kingsley L, Jacobsen L, Margolick J, Lake J, Brown T. HIV-1 Viremia is an Independent Risk Factor for Falls Among Older Men with or at risk for HIV Infection. Presented as a poster abstract at the HIV/Aging International Workshop 2018, New York, NY (#22).
- Stabell AC\*. Wilson M\*, MaWhinney S, Jankowski CM, Erlandson KM. Determinants and trends in daily step count among sedentary adults with or without HIV participating in a monitored exercise program. Presented as a poster abstract at the Adverse Drug Reactions and Comorbidities in HIV Conference 2018, New York, NY.
- Mathur S\*, Roberts-Toler C, Tassiopoulos K, Goodkin K, McLaughlin M, Koletar S, Erlandson KM. Demographics and clinical outcomes associated with mental health medication use in people living with HIV. Presented as a poster abstract at ID Week 2018, San Francisco, CA, (#583).
- Ressler AM\*, Johnson SC, Abdo M, MaWhinney SM, Erlandson KM. Non-AIDS Cancers contribute to an increasing proportion of deaths in persons living with HIV at a single university-based clinic. Presented as a poster abstract at ID Week 2018, San Francisco, CA (#2244).
- Lake JE, Wu K, Erlandson KM, Bares SH, Debroy P, Godfrey C, Koethe JR, McComsey GA, Palella FJ, Tassiopoulos K. Risk Factors for excess weight gain following switch to integrase inhibitor-based ART. Presented as a poster and themed discussion at CROI 2019, Seattle, WA.
- Lake JE, Moser C, Olefsy M, Erlandson KM, Scherzinger, Stein JH, Currier JS, Brown TT, McComsey GA. Changes in fat density after ART initiation. Presented as a poster at CROI 2019, Seattle, WA.
- Jankowski CM, Wilson MP, MaWhinney S, Reusch J, Knaub L, Erlandson KM. Blunted muscle mitochondrial responses to exercise training in older adults with HIV. Presented as a poster at CROI 2019, Seattle, WA.
- Rubin L, Gustafson D, Hawkins KL, Zhang L, Jacobson L, Becker JT, Munro C, Lake JE, Martin E, Levine A, Brown TT, Sacktor NW, Erlandson KM. Total and central obesity predict cognitive decline: Multicenter AIDS Cohort Study. Presented as a poster at CROI 2019, Seattle, WA.
- Masters MC\*, Perez J, Tassiopoulos K, Andrade A, Ellis RJ, Yang J, Brown TT, Palella FJ, Erlandson KM. Glycemic control and cognition are independently associated with gait speed decline. Presented as a poster at CROI 2019; Seattle, WA.
- Erlandson KM, Bradford Y, Samuels DC, Brown TT, Sun J, Wu K, Tassiopoulos K, Ritchie MD, Haas D, Hulgand T, Weak grip and frailty are associated with mtDNA haplogroup in adults with HIV. Presented as a poster at CROI 2019, Seattle, WA.
- Perez J, Andrade A, Ellis RJ, Masters MC\*, Tassiopoulos K, Erlandson KM. Obesity is independently associated with neurocognitive decline in HIV. Presented as an oral abstract at CROI 2019, Seattle, WA.
- Jankowski CM, Wilson MP, Brown TT, MaWhinney S, Erlandson KM. Muscle mass is maintained and body fat reduced with exercise in older people aging with HIV. Presented as an oral abstract at the International Conference on Frailty and Sarcopenia Research 2019, Miami, FL. (#42).
- Dillon S, Abdo M, Wilson MP, MaWhinney S, Frank DN, Wilson CC, Erlandson KM. Associations between gut microbiota and physical function in older people living with HIV: the gut-muscle axis. Accepted as an oral abstract at the Mucosal Systems Meeting, Chicago, IL May 6-8, 2019.
- Rubin L, Gustafson D, Hawkins KL, Zhang L, Jacobson L, Becker JT, Munro C, Lake JE, Martin E, Levine A, Brown TT, Sacktor NW, Erlandson KM. Total and central obesity predict cognitive decline: Multicenter AIDS Cohort Study. Presented as a poster at Alzheimer's Association International Conference Los Angeles, CA, July 15, 2019.
- Wilson MP, Mawhinney S, Erlandson KM. Outcome-Dependent Sampling Designs for Longitudinal Studies Utilizing Existing Cohort Studies: Quantifying Possible Biases Due to Study Dropout. Poster presented at: Western North American Region (WNAR) of the International Biostatistics Society Annual Meeting; 2019 June 23- 26; Portland, OR

- Wilson M, MaWhinney S, Castillo-Mancilla J, Erlandson KM. Outcome Dependent Sampling Designs for Longitudinal Studies Utilizing Existing Cohort Studies: Quantifying Possible Biases Due to Study Dropout. Poster presentation at the Joint Statistical Meeting July 31, 2019; Denver, CO.
- Masters MC, Yang J, Erlandson KM, Lake JE, Abraham A, Kingsley L, Brown TT, Palella FJ. Impact of testosterone use on grip strength in men aging with HIV. Presented as an oral abstract at International Workshop on HIV/Aging, NYC, NY October 2019.
- act of testosterone use on grip strength in men aging with HIV. Oral presentation at HIV/Aging Workshop 2019; NYC, NY.
- Coyle RP, Seifert SM\*, Abdo M, MaWhinney S, Anderson PL, Erlandson KM. Tenofovir-Disphosphate in Dried Blood Spots is associated with HIV-related aging factors. Poster presentation at International Workshop on HIV and Aging; NYC, NY October 2019.
- Erlandson KM, Olefsky M, Moser C, Brown TT, Currier JS, McComsey GA, Scherzinger A, Stein JH, Lake JE. Poorer Muscle Quality and Quantity with ART Initiation is Associated with Greater Inflammation and Immune Activation. Presented as poster at HIV/aging workshop 2019; NYC, NY
- Abdo M, MaWhinney S, Wilson M, Jankowski CM, Erlandson KM. Characteristics Associated with Exercise Adherence in the Setting of a Supervised Intervention. Presented as poster at HIV/Aging Workshop 2019; NYC, NY.
- Masters MC, Yang J, Lake JE, Abraham A, Kingsley L, Brown TT, Palella FJ, Erlandson KM. Glycemic status and physical function among men with and without HIV. Accepted for poster presentation at Conference Retroviruses and Opportunistic Infections, Boston MA, March 2020.
- Erlandson KM, Langan S, Sun J, Lake JE, Palella FJ, Kingsley L, Brown TT. Consistent statin use does not effect age-associated gait speed and strength declines. Poster presentation at CROI 2020, Boston, MA.
- Bowman E, Wilson MP, MaWhinney CM, Jankowski CM, Funderburg N, Erlandson KM. Lipidome alterations with exercise among people with and without HIV. Poster presentation at CROI 2020, Boston, MA.
- Erlandson KM, Langan S, Sun J, Lake JE, Sharma A, Adrian S, Scherzinger A, Palella FJ, Kingsley L, Gange SJ, Tien P, Yin MT, Brown TT. Effects of HIV, age, and sex on skeletal muscle mass and density. Poster presentation at CROI 2020, Boston, MA.
- Hileman CO, Azzam S, Schlatzer D, Wu K, Tassiopoulos K, Bedimo R, Ellis RJ, Erlandson KM, Koletar SL, Landay A, Palella FJ, Pallaki M, Taiwo B, Hoppel CL, Kalayjian R. Tricarboxylic acid metabolites predict metabolic comorbidities and death in aging PWH. Poster presentation at CROI 2020, Boston, MA.
- Hileman CO, Azzam S, Schlatzer D, Wu K, Tassiopoulos K, Bedimo R, Ellis RJ, Erlandson KM, Koletar SL, Landay A, Palella FJ, Pallaki M, Taiwo B, Hoppel CL, Kalayjian R. Plasma citrate and succinate predict neurocognitive impairment in older PWH. Poster presentation at CROI 2020, Boston, MA.
- Umbleja T, Brown TT, Ribaldo H, Schrack JA, Benson CA, Rodriguez B, Arduino R, Fitch KV, Grinspoon SK, Overton ET, Erlandson KM. Prevalence of physical function impairment and frailty. Poster presentation at CROI 2020, Boston, MA.
- Debroy P, Barrett, Erlandson KM, Budoff M, Brown TT, Price JC, Post W, Stosor V, Lellock C, D'Souza G, Lake JE. Relationships between hepatic steatosis and frailty differ by HIV serostatus. Poster presentation at CROI 2020, Boston, MA.
- Erlandson KM, Julian C, Konigsberg I, J Sun, Brown TT, Jankowski CM. Exercise-induced epigenetic changes in muscle differ by HIV serostatus. Poster presentation at CROI 2020, Boston, MA.
- Guaraldi G, Milic J, Malagoli A, Carli F, Menozzi M, Raimondi A, Giacomo C, Masi V, Belli M, Guaraldi S, Mussini C, Brown TT, Lake JE, Erlandson KM. Contribution of INSTI, BMI, physical activity, caloric intake to weight gain in PWH. Poster presentation at CROI 2020, Boston, MA.
- Chauhan LR\*, Huang M, Abdo M, MaWhinney S, Church S, Miller M, Fixen D, Erlandson KM. Approaches to decrease inappropriate antibiotic use in acute respiratory conditions in a geriatric clinic. Accepted to the Presidential Poster Session of the American Geriatrics Society Meeting 2020.
- \*Winner of Outstanding Quality Award for the 2nd Annual UCH Quality & Safety Symposium\*

#### Ongoing Concept Proposals/Analyses

##### ACTG Protocols

- A5318 Team member
- A5322 Team member
- A5371 Co-Chair
- A5391 Team member
- A5371 Co-Chair

##### DACS/NWCS

- DACS 315
- DACS 344
- DACS 348
- DACS 349
- DACS 351
- DACS 352
- DACS 353
- DACS 354
- NWCS 366
- NWCS 396



- NWCS 399
- NWCS 447
- NWCS 450
- NWCS 459
- NWCS 471
- NWCS 487
- NWCS 489
- NWCS 491

MACS/WIHS: BMI Changes in MACS and WIHS and association with physical function (Erlandson, PI)  
MACS: Association between a wasting and subsequent physical function decline (Erlandson, Brown)  
MACS: Metabolic Health and Body Mass Index in HIV-Infected and -Uninfected Men in the Multicenter AIDS Cohort Study (Lake PI)  
MACS/WIHS: BMI Changes in MACS and association with neurocognitive function (Erlandson, PI)  
MACS/WIHS: Factors associated with Falls in HIV+ and HIV- men and women (Erlandson)  
MACS/WIHS: Sarcopenia and frailty in Older MACS men (r1721)  
MACS/WIHS: Case-control of inflammation and endocrine dysfunction in frail vs not-frail HIV+ and HIV- men (Erlandson, Brown).  
MACS/WIHS: Validating the Liver Score as a Clinically Relevant, Non-Invasive Measure of Hepatic Steatosis in HIV Infection (Lake PI)  
ACTG REPRIEVE Study: Substudy PR700 approved for further development, investigating the impact of randomized pitavastatin on muscle function in HIV  
MACS/WIHS: Longitudinal changes in Thigh Skeletal Muscle Density and Adipose Tissue Density (R17052)  
MACS/WIHS: Statins and Physical Function in HIV (R18007)

#### Additional Unique or Notable Activities

- 2012 Feature story on falls in HIV: <http://www.aidsmap.com/Middle-aged-people-with-HIV-have-a-high-risk-of-falls/page/2509114/>
- 2014 IFARA Health and Treatment CROI 2014 Update: Aging Panel Discussant (<http://accesshiv.org/2014/croi-2014-aging/>)
- 2014 IFARA Health and Treatment CROI 2014 Update: Physical Function and Quality of Life
- 2015 Featured in the AIDS Clinical Trials Group Newsletter, April 2015 for CROI presentation on Obesity and Inflammation in Resource-Diverse Settings of Antiretroviral Therapy Initiation.
- 2015 Feature story on inflammation and obesity: <https://www.healio.com/infectious-disease/hiv-aids/news/in-the-journals/%7Be1f9c1e1-ff36-4c5b-8647-2900fd43603f%7D/bodyweight-influences-risk-for-inflammation-mortality-among-hiv-patients-starting-art>
- 2015 Featured story on wasting in HIV: <http://www.aidsmap.com/HIV-related-wasting-can-have-long-term-consequences/page/3014398/>
- 2015 Featured in the Center of AIDS: Information and Advocacy Newsletter, April 2015 for "Statin therapy for 1 year linked to gains in bone density with HIV".
- 2015 Featured interview in Men's Health: "Is the Plague Coming Back?"
- 2016 Featured in Stern (German equivalent of Newsweek) "Die Diagnose" regarding the 2014 plague outbreak investigation in Colorado
- 2016 Moderator for Metabolics Section at the Conference on Retroviruses and Opportunistic Infections
- 2016 IFARA Health and Treatment CROI 2016 Update: (<http://accesshiv.org/croi-2016-boston/>)
- 2016 Interviewed for POZ Magazine, 2016 article: "What Is Chronic Inflammation and Why Is It Such a Big Deal for People With HIV?"
- 2017 Featured story on sarcopenia in HIV <http://www.pharmacytimes.com/resource-centers/hiv/patients-with-hiv-living-longer-developing-the-diseases-of-aging>
- 2017 Featured in Healio Infectious Diseases on disability in HIV: <https://www.healio.com/infectious-disease/hiv-aids/news/in-the-journals/%7B49d5f985-b0f2-4ac3-abb2-8c74c5acac8d%7D/disabilities-common-in-older-patients-with-hiv>
- 2017 Featured in Healio Infectious Diseases on the changing HIV Epidemic: <http://www.healio.com/infectious-disease/hiv-aids/news/print/infectious-disease-news/%7Bbb2f44c7-d92f-4e3c-a239-6413fb3732ed%7D/hiv-over-3-decades-from-fatal-disease-to-chronic-condition>.
- 2017 Featured article in Center for AIDS: Information and Advocacy Newsletter, Spring 2017. <http://centerforaids.org/pdfs/ta0317.pdf>.
- 2017 Featured in CU Connections newsletter for exercise study: <https://www.cuanschutztoday.org/best-way-treat-older-hiv-infected-patients/>
- 2017 IAS Press release: <http://www.kait8.com/story/35953383/theratechnologies-announces-new-findings-with-the-investigational-antiretroviral-ibalizumab-and-with-egrifta-tesamorelin-for-injection>
- 2017 IFAR Health and Treatment IAS 2017 Update: (not yet posted)
- 2017 Featured in Healio Infectious Diseases on Obesity in HIV: <https://www.healio.com/infectious-disease/hiv-aids/news/print/infectious-disease-news/%7Bca33dd02-9c4d-41e9-8615->

- 2017 fd69a097ed06%7D/clinicians-face-new-challenge-in-hiv-obesity  
Featured in Endocrinology Advisor on changes in BMD:  
<http://www.endocrinologyadvisor.com/bone-metabolism/bmd-femoral-neck-decline-in-hiv-infected-women/article/681275/>
- 2017 Featured in HIV Treatment Alerts for study on disability in HIV:  
<http://centerforaids.org/pdfs/TA0817.pdf>
- 2017 Featured in Physicians Weekly: <https://www.physiciansweekly.com/hiv-infection-is-associated-with-increased-fatty-infiltration-of-the-thigh-muscle-with-aging-independent-of-fat-distribution/>
- 2018 Featured in Center for AIDS: Information and Advocacy Newsletter, Fall 2018.  
<http://centerforaids.org/pdfs/ta1218.pdf>
- 2019 Featured on Contagion: [https://www.doximity.com/newsfeed/125266837?\\_eda\\_link\\_uuid=395a256d-cd2b-4704-be84-2a84db14874c&utm\\_campaign=notifications%3A%3Adigest&utm\\_medium=email&utm\\_source=doximity-eda](https://www.doximity.com/newsfeed/125266837?_eda_link_uuid=395a256d-cd2b-4704-be84-2a84db14874c&utm_campaign=notifications%3A%3Adigest&utm_medium=email&utm_source=doximity-eda)
2019. Featured on IFARA: HIV/Aging at CROI 2019:
- 2019 PracticePoint Communications, Spring 2019 HIV Updates;  
<http://s318638489.onlinehome.us/files/hiv2019Q1brief/>
- 2020 <https://www.practicepointcme.com/CMEHome/independent-coverage-from-the-27th-conference-on-retroviruses-and-opportunistic-infections>
- 2020 <https://www.clinicaloptions.com/hiv/programs/current-art-2020/video-module/video-module>