

CURRICULUM VITAE
DOUGLAS CORBETT HEIMBURGER, MD, MS

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Personal Data

Born 27 October 1952. Married to Mary Elizabeth Holloway since 1977. Son Rob (1979); daughters Susan (1982) and Betsy (1990). Grandson Benjamin Douglas Heimburger (2013). Enjoy travel, classical music, swimming, theology, and philosophy.

Positions

Current (Vanderbilt University School of Medicine [VUSM] and Vanderbilt University Medical Center [VUMC])

- 2009- Professor, Department of Medicine
- 2009- Associate Director for Education and Training, Vanderbilt Institute for Global Health
- 2009- Member, Tennessee Center for AIDS Research
- 2011- Associate Director, MPH Program; Director, Global Health Track
- 2012- Affiliated Faculty, Vanderbilt Center for Bioethics & Society
- 2012- Affiliated Faculty, Vanderbilt Ingram Cancer Center
- 2014- Affiliated Faculty, Vanderbilt Tuberculosis Center
- 2018- Visiting Lecturer, Department of Internal Medicine, University of Zambia School of Medicine

Previous (University of Alabama at Birmingham, UAB)

- 2009-2014 Volunteer Professor, Department of Nutrition Sciences
- 2008-2009 Associate Director, UAB Sparkman Center for Global Health
- 2008-2009 Affiliate Member, UAB Diabetes Research and Training Center
- 2006-2009 Scientist, UAB Center for AIDS Research
- 2000-2009 Senior Scientist, UAB Clinical Nutrition Research Center
- 2000-2009 Senior Scientist, UAB Center for Palliative Care
- 1997-2009 Senior Scientist, UAB Comprehensive Cancer Center
- 1997-2009 Professor, Department of Nutrition Sciences and Department of Medicine

- 1991-2009 Director, UAB Cancer Prevention and Control Training Program
- 1988-2009 Director, Clinical Nutrition Fellowship Program, UAB Departments of Nutrition Sciences and Medicine
- 1986-2009 Chairman, Medical Nutrition Committee, Birmingham Veterans Affairs Medical Center
- 1982-2009 Director, UAB Home Parenteral and Enteral Nutrition Programs
- 2006-2007 Fulbright Scholar, Centre for Infectious Disease Research in Zambia and University of Zambia School of Medicine
- 1996-2007 Director, Medical Nutrition Services, UAB and Birmingham Veterans Affairs Medical Center (BVAMC; also 1986-93)
- 1996-2006 Medical Director, UAB *EatRight* Weight Management Program
- 1995-1996 Visiting Worker, MRC Dunn Nutrition Centre, and Visiting Scholar, Darwin College, University of Cambridge, England
- 1991-1997 Associate Professor, Division of Clinical Nutrition, Department of Medicine, UAB
- 1990-1996 Director, Division of Clinical Nutrition, Departments of Nutrition Sciences and Medicine, UAB
- 1990-1991 Assistant Professor, Division of Clinical Nutrition, Department of Medicine, UAB
- 1988-1991 Associate Director, UAB Cancer Prevention and Control Training Program
- 1988-1997 Associate Professor (with tenure), Division of Clinical Nutrition, Department of Nutrition Sciences, UAB; Scientist, UAB Comprehensive Cancer Center
- 1985-1991 Assistant Professor, Division of Hematology-Oncology, UAB Department of Medicine
- 1984-1988 Assistant Professor, Division of Clinical Nutrition, UAB Department of Nutrition Sciences
- 1984-1988 Associate Scientist, UAB Comprehensive Cancer Center
- 1983-1985 Instructor, Division of Hematology-Oncology, Department of Medicine, UAB
- 1982-1984 Instructor, Division of Clinical Nutrition, Department of Nutrition Sciences, UAB

Medical staff appointments

- 1981-2009 University of Alabama Hospital
- 1981-2009 Birmingham Veterans Affairs Medical Center (BVAMC)

Medical licensure

- 1981- Alabama, # 9871
- 2006-2007 Zambia

Board Certifications

- 1981 American Board of Internal Medicine, # 79773
- 1983 American Board of Nutrition (Clinical), # 382
- 2001 American Board of Physician Nutrition Specialists, # 1010001

Education and Training

- 1970-1973 BS, General Science (chemistry and biology), *Summa cum laude*, Harding College (now Harding University), Searcy, Arkansas
Outstanding Scholastic Achievement Scholarship
Alpha Chi National College Honor Society
Alpha Phi Gamma journalism fraternity
- 1974-1978 MD, Vanderbilt University, Nashville, Tennessee
- 1978-1981 Residency, St. Louis University Department of Medicine, St. Louis, Missouri
- 1980-1981 Principal Chief Resident, St. Louis University Department of Medicine
- 1981-1982 NIH Clinical Nutrition Research Unit Fellowship, Department of Nutrition Sciences, University of Alabama at Birmingham
- 1987 MS, Nutrition Sciences, University of Alabama at Birmingham

Honors and Awards

- 1973 *Harding College*. Alpha Chi National Scholastic Honor Society, Student Association Executive
- 1978 *Vanderbilt University*. MAP-Readers Digest International Fellow, Bangalore, India
- 1979 *St. Louis University*. Upjohn Achievement Award as "Best Intern"
- 1995 *University of Alabama at Birmingham*. President's Award for Excellence in Teaching
- 1995 *Nutrition: The International Journal of Applied and Basic Nutritional Medicine*. Publication entitled "Diarrhea with enteral feeding" (#27 below) nominated for the John M. Kinney International Award for Nutrition and Metabolism
- 1996 *American College of Physicians*. Best Internal Medicine Board Review Course faculty in Nutrition
- 1997 *UAB School of Medicine Argus Awards, Class of 1999*. Award for Excellence in Teaching; Honorable Mention for Best Coursemaster
- 1998, 1999, 2000, 2002, 2004, 2005, 2007, 2008, 2009 – *UAB Department of Medicine*. Outstanding Division teacher.
- 1999 *American Society for Clinical Nutrition*. Dannon Institute Award for Excellence in Medical/Dental School Nutrition Education
- 2000 *UAB School of Medicine Argus Awards, Class of 2002*. Outstanding Small Group Leader
- 2002 *UAB School of Medicine Argus Awards, Class of 2004*. Nominated for Best Lecturer
- 2004 *UAB School of Medicine Argus Awards, Class of 2006*. Nominated for Best Course Director
- 2005 *UAB School of Medicine Argus Awards, Class of 2007*. Best First-Year Course Director; Best Course – *Nutrition*; Nominated for Best Small Group Leader
- 2006 *UAB School of Medicine Argus Awards, Class of 2008*. Best First-Year Course Director; Best Small Group Leader; Nominated for Best Course – *Nutrition*
- 2006 *UAB School of Medicine Caduceus Club Award*, graduating class of 2006 – Best Preclinical Science Professor
- 2006-2007 *Fulbright Scholar Program*. Zambia Lecturing/Research Award.

- 2007 *UAB School of Medicine Argus Awards, Class of 2009.* Best First-Year Course Director; Nominated for Best Course – *Nutrition*
- 2007, 2008, 2009, 2010 *America's Best Doctors*
- 2007 *Health Care Heroes*, Birmingham Business Journal – Health Care Educator of the Year
- 2008 *UAB School of Medicine Argus Awards, Class of 2010.* Best First-Year Course Director; Best Lecturer in Nutrition Course; Nominated for Best Course – *Nutrition*
- 2009 *UAB School of Medicine Argus Awards, Class of 2011.* Nominated for Best Module Director/Co-Director, Best Module, and Best Lecturer in the *Gastrointestinal Module*
- 2010 *UAB School of Medicine Argus Awards, Class of 2012.* Nominated for Overall Best MS-1 Organ Module Director/Co-Director
- 2016 *Vanderbilt University Medical Center Academic Enterprise Faculty Awards.* Jacek Hawiger Award for Teaching Graduate Students and Postdoctoral Fellows in the Classroom, Lecture, or Small Group Setting. Shared with Troy Moon, MD, MPH.
- 2018 *Vanderbilt University School of Medicine.* Alpha Omega Alpha.

Principal Interests

- Global health education and training
- Nutritional influences on response to antiretroviral therapy for HIV/AIDS in the developing world
- Medical nutrition education
- Nutritional factors in cancer prevention

Prior Interests

- Treatment of obesity
- Nutritional support of patients

Scientific and Professional Organizations

- 1981-2000 Member, *American Medical Association*
- 1981-2005 Member, *American Society for Parenteral and Enteral Nutrition*
- 1992-1993 Self-Assessment Examination Committee
- 1982- Fellow, *American College of Nutrition*
- 1985- Fellow, *American College of Physicians*
- 1986-1997 Member, *American Federation for Medical Research*
- 1988- Fellow (Member 1988-2019), *American Society for Nutrition* (formerly *American Society for Clinical Nutrition*)
- 1988 Group leader, Workshop on Teaching Priorities in Nutrition Education
- 1990-1993 Member, Committee on Medical/Dental School and Residency Nutrition Education
- 1995 Speaker in Symposium on “New Horizons in Nutrition Education and Training for Medical Students, Residents, Fellows, and Dietitians”
- 1996-2002 Member and Chair, Committee on Professional Nutrition Education

- 1996-1998 Member, Annual Meeting Program Committee
- 1998-2000 Member, Physician Nutrition Specialist Awards Task Force
- 1998 Representative to Council of Subspecialty Societies, American College of Physicians-American Society of Internal Medicine
- 1999-2002 Councilor
- 2000-2002 Chair, Program Committee, Experimental Biology 2002
- 2003 Nominated candidate for Presidential track (not elected)
- 2004-2006 Nominating Committee (Chair, 2005)
- 2007-2009 Leadership Committee, Medical Nutrition Council
- 2005-2012 Graduate and Professional Education Committee
- 2007-2008 Chair, Future Planning Subcommittee
- 2012-2015 Nutrition Education in Professional Schools Subcommittee – IOM/NAS Global Forum Representative
- 2019- Fellow
- 1992- Member, *American Association for Cancer Education*
- 1987 Invited participant, Workshop on Education in Cancer and Nutrition
- 1988 Participant, Workshop on Educational Objectives in Nutrition and Cancer in Medical Schools
- 1992-98 Board of Directors, *American Board of Nutrition*
- 1988,1990 Oral examiner
- 1995-1996 Vice President
- 1996-1998 President
- 1995-2000 Member, *Southern Society for Clinical Investigation*
- 1995-2001 Member, *American Society of Preventive Oncology*
- 1996-2001 Developer and Director, *Intersociety Professional Nutrition Education Consortium*. The Consortium's aims were to develop consensus among national nutrition societies to (1) Establish educational standards for fellowship training of physician nutrition specialists; (2) Implement a system of governance, including a mechanism for long-term support, necessary to accredit and monitor clinical nutrition fellowship programs; (3) Develop standards for assessment and certification of physician nutrition specialists; and (4) Disseminate information about the training and certification processes. The Consortium founded the American Board of Physician Nutrition Specialists (below).
- 2001-2009 *American Board of Physician Nutrition Specialists (ABPNS)*
- 2001-2003 Founding President, Board of Directors
- 2003-2007 Secretary/Treasurer, Board of Directors
- 2001-2009 Executive Director, national secretariat office
- 2004-2007 Fellow, *The Obesity Society*
- 2012-2015 *Institute of Medicine* Global Forum on Innovation in Health Professional Education – Representative of the American Society for Nutrition
- 2019- Member, Collaborating Network, The Faculty Initiative

Editorial Boards

1990-1996 Current Summaries Editorial Board, *Journal of Parenteral and Enteral Nutrition*

1993-2000 Editorial Advisory Board, *Nutrition: The International Journal of Applied and Basic Nutritional Science*. Included writing self-assessment questions for each issue's "International Ward Rounds in Clinical Nutrition," 1993-95.

1996-2000 Editorial Board, *Journal of Parenteral and Enteral Nutrition*

Reviewer — Journal manuscripts

AIDS Research and Human Retroviruses

AIDS Research and Treatment

American Journal of Clinical Nutrition

American Journal of Epidemiology

American Journal of Hygiene and Tropical Medicine

American Journal of Medicine

American Journal of the Medical Sciences

Annals of Internal Medicine

Archives of Medical Research

BMC Medicine

BMC Nutrition

BMC Public Health

British Medical Journal

The Cochrane Library

Gastroenterology

Globalization and Health

International Journal of Obesity

International Journal of STD & AIDS

Journal of Acquired Immune Deficiency Syndromes (JAIDS)

Journal of Infectious Diseases

Journal of Medical Education and Curricular Development

Journal of Parenteral and Enteral Nutrition

Journal of the American College of Nutrition

The Lancet

Mayo Clinic Proceedings

New England Journal of Medicine

Nutrition: The International Journal of Applied and Basic Nutritional Science

Nutrition and Cancer

Obesity Research

PLoS ONE

Public Health Nutrition

Southern Medical Journal

Western Journal of Medicine

Reviewer — Grant Applications

1987	Small Business Innovation Research Contract Proposals, NHLBI, NIH
1994-1995	UAB Comprehensive Cancer Center mini-grants
1995	Veterans Affairs Merit Review grants
1996-2001	Initial Review Group Subcommittee G, National Cancer Institute, NIH
1997	Special Emphasis Panel, National Heart Lung and Blood Institute, NIH
2001	Chair, Special Emphasis Panel, National Cancer Institute, NIH
2003	Diet and Disease Prevention and Health Promotion Panel, USDA Agricultural Research Service
2010	Distinguished Editor, Human Subjects Research Enhancement Applications, Fogarty International Center, NIH
2013	Global Health: Innovative Training Programs, Fogarty International Center, NIH
2016	Exploratory Grant (P20) Applications for Regional Centers of Research Excellence in Non-communicable Diseases (NCDs) in Low and Middle Income Countries, NIH/NCI – April and October
2017	Chair, Special Emphasis Panel, Emerging Epidemic Virus Research Training for West African Countries with Widespread Transmission of Ebola (Guinea, Liberia, Sierra Leone), Fogarty International Center, NIH
2018	Chair, K01 application review Special Emphasis Panel ZRG1 BDCN-S 02 M, Fogarty International Center, NIH
2018	NIH National Center for Advancing Translational Sciences (NCATS) Conference Grant applications (R13) ZTR1 CG-7 (01)

University Committee Memberships

University of Alabama at Birmingham

1981-2009	UAB Hospital Nutrition Committee
1988-2002	Basic Science Promotions Committee, School of Medicine
1990-2002	Ph.D. Advisory Committee, Department of Nutrition Sciences
1991-1993	Cancer Prevention and Control Planning Committee, Comprehensive Cancer Center
1992-1995	Chemoprevention Research Committee, Comprehensive Cancer Center and Clinical Nutrition Research Unit
1992-2000	Cancer Education Committee, Comprehensive Cancer Center
1996-1999	Community Research Committee, Comprehensive Cancer Center
1999-2001	Member, Search Committee for Chair, Department of Nutrition Sciences
2000	Member, Search Committee for Dean, School of Health Related Professions
2002-2009	Department Review Committee (promotions), Department of Nutrition Sciences
2002-2003	HIPAA Privacy Coordinator, School of Health Related Professions
2002	Chair, “Voice of the Kirklin Clinic” Judging Panel, UA Health Services Foundation
2003	Research Advisory Committee, Department of Nutrition Sciences
2004	Peer Review Committee for Basic Science Courses, School of Medicine
2004-2006	Committee on Faculty, LCME Self-Study, School of Medicine

- 2007 Global Outreach Task Force, School of Health Professions
 2007-2009 Chairman, Search Committee for endowed Webb Chair in Nutrition Sciences, UAB
 Department of Nutrition Sciences & Comprehensive Cancer Center

Vanderbilt University School of Medicine and Vanderbilt University Medical Center

- 2011-2012 Member, Search Committee for Associate Director for Research, Vanderbilt Institute for Global Health
 2011- VUSM Global Health Education Committee. Chair, 2014 to present.
 2011- Master of Public Health Program – Operations Committee, Admissions & Promotions Committee, Curriculum Committee (2011-16), Advisory committee (2011 to present)
 2011- Vanderbilt-Meharry Center for AIDS Research (CFAR) – Global HIV Scientific Working Group
 2011- Board Member, Canby Robinson Society
 2011 Schaffner Society Advisor, Division of Epidemiology
 2011-12 Leader, Global Health Thread, Vanderbilt University School of Medicine Curriculum 2.0
 2012 Institutional Self-Study Task Force for Liaison Committee on Medical Education (LCME) – Educational Program / Structure / Content Subcommittee
 2012-14 Member, Nutrition Education Faculty Committee
 2017 Member, Search Committee for Director, Vanderbilt Institute for Global Health

Advisory Positions

- 1985 Consensus Panel on Protein Content of Enteral Feeding Formulas, Washington, DC, Mead Johnson Nutritional Division.
 1997 Expert review panel, Vitamin and Mineral Safety, Council for Responsible Nutrition
 1998 University of Nevada School of Medicine Nutrition Education & Research Program
 2000- Danone Institute of North America (<http://www.danoneinstitutena.org/about-us/>) (prior to 2018, Dannon Institute US)
 2000-2004, member, Scientific Advisory Council
 2004-2020, member, Board of Directors
 2004-2012, Chair, Nutrition Leadership Institute Committee
 2006-2012, Vice President, Board of Directors
 2011, member, Danone International Prize for Nutrition Jury
 2012-2018, President, Board of Directors
 2001 Cancer Prevention Fellowship Program, National Cancer Institute, NIH
 2001-2011 Advisory Committee, University of North Carolina *Nutrition in Medicine* project
 2003-2007 United States Medical Licensing Examination (USMLE)/National Board of Medical Examiners
 2003-2007, Step 3 Test Material Development Committee for Chronic Illness and Ongoing Conditions
 2004, Step 3 Standard-Setting Committee

- 2003-2006 Food Advisory Committee, U.S. Food & Drug Administration (FDA) Center for Food Safety and Applied Nutrition (CFSAN)
- 2004-2008 Advisory Board, Fogarty International Center, National Institutes of Health
- 2006-2010 Consultant Medical Expert Group, Firmenich, Inc. (www.firmenich.com)
- 2011-2013 Advisory Committee, Office of Global Health, University of Texas Southwestern Medical Center at Dallas
- 2012-present Member, Tennessee Advisory Committee, U.S. Global Leadership Coalition (www.usglc.org)
- 2012 NIH Working Group – Implementing Nutrition Across the Continuum of Medical Education and Training, and Research, Bethesda, MD, 10-11 September 2012
- 2014- Training Advisory Committee, University of North Carolina D43 training grant for South Africa

Peer-Reviewed Articles

Complete list of published work: <http://www.ncbi.nlm.nih.gov/pubmed/?term=heimburger+dc>

1. **Heimbürger DC.** Toxic-shock syndrome. *Crit Care Nurse* 1981;(May-June):32-6.
2. **Heimbürger DC.** Hyperthyrocalcitoninemia in toxic shock syndrome. *South Med J* 1981;74:1265-6.
3. **Heimbürger DC.** Home parenteral nutrition. *Ala J Med Sci* 1982;19:377-80.
4. **Heimbürger DC.** Enteral feeding: If the gut works, use it. *Ala J Med Sci* 1982;19:387-91.
5. Weinsier RL, Brooks CM, Boker JR, **Heimbürger DC**, Young EA. An innovation in nutrition education: Development of a National Nutrition Test-Item Bank. *Am J Clin Nutr* 1983;38:795-9.
6. **Heimbürger DC.** Observations on the practice of clinical nutrition in hospitals in China. *JPEN J Parenter Enteral Nutr* 1984;8:628-31.
7. **Heimbürger DC**, Weinsier RL. Guidelines for evaluating and categorizing enteral feeding formulas according to therapeutic equivalence. *JPEN J Parenter Enteral Nutr* 1985;9:61-7.
8. Weinsier RL, **Heimbürger DC**, Samples CM, Dimick AR, Birch R. Cost containment: A contribution of aggressive nutritional support in burn patients. *J Burn Care Rehabil* 1985;6:436-41.
9. **Heimbürger DC**, Young VR, Bistran BR, Ettinger WH, Lipschitz DA, Rudman D. The role of protein in nutrition, with particular attention to the composition and use of enteral feeding formulas. *JPEN J Parenter Enteral Nutr* 1986;10:425-30.
10. **Heimbürger DC.** Nutritional support of the critically infected patient. *Ala J Med Sci* 1987;24:197-200.
11. Baggott JE, **Heimbürger DC**, Krumdieck CL, Butterworth CE, Jr. Folate conjugase activity in the plasma and tumors of breast-cancer patients. *Am J Clin Nutr* 1987;46:295-301.
12. **Heimbürger DC.** Diet, diet supplements, and cancer. *Ala J Med Sci* 1987;24:442-6.
13. **Heimbürger DC**, Krumdieck CL, Alexander CB, Birch R, Dill SR, Bailey WC. Localized folic acid deficiency and bronchial metaplasia in smokers: Hypothesis and preliminary report. *Nutrition International* 1987;3:54-60.
14. **Heimbürger DC.** A biblical model for medical ethics. 1. Worldviews, presuppositions, logical conclusions. *J Bibl Ethics Med* 1987;1:5-10.

15. **Heimburger DC.** A biblical model for medical ethics. 2. Three ethical perspectives. *J Bibl Ethics Med* 1987;1:22-7.
16. **Heimburger DC.** A biblical model for medical ethics. 3. Biblical norms for medical ethics. *J Bibl Ethics Med* 1988;2;10-13,19.
17. **Heimburger DC,** Alexander CB, Birch R, Butterworth CE, Bailey WC, Krumdieck CL. Improvement in bronchial squamous metaplasia in smokers treated with folate and vitamin B₁₂. Report of a preliminary randomized double-blind intervention trial. *JAMA* 1988;259:1525-30. Also published in *JAMA, Edition Francaise* 1988;13:595-604.
18. **Heimburger DC.** A biblical model for medical ethics. 4. Treatment decisions at the end of life. *J Bibl Ethics Med* 1988;2:75-8.
19. **Heimburger DC.** The scriptures on abortion. *J Bibl Ethics Med* 1989;3:77-9.
20. **Heimburger DC,** Tamura T, Marks RD. Rapid improvement in dermatitis after zinc supplementation in a patient with Crohn's Disease. *Am J Med* 1990;88:71-3.
21. **Heimburger DC.** Ten-year survival of a Broviac catheter. *Nutr Clin Pract* 1992;7:74-7.
22. Morgan SL, Wooldridge NH, Boker JR, Lazarus K, Epps L, Armour BH, **Heimburger DC,** Brooks CM. A meal conference format to teach ambulatory nutrition concepts. *J Cancer Ed* 1992;7:131-7.
23. Heber D, Halsted CH, Brooks CM, Chesney RW, DiGirolamo M, **Heimburger DC,** Hensrud DD, Mark DA, Sitrin MD, Tillman HH, Zeisel SH. Biennial survey of physician clinical-nutrition training programs. *Am J Clin Nutr* 1993;57:463-9.
24. ChrisAnderson-Hill D, **Heimburger DC.** Medical management of the difficult patient with short bowel syndrome. *Nutrition* 1993;9:536-9.
25. Hensrud DD, **Heimburger DC.** Antioxidant status, fatty acids, and cardiovascular disease: A review. *Nutrition* 1994;10:170-5.
26. **Heimburger DC,** Ullmann DO, Ramsey MJ, Wooldridge NH, Epps LA, Hardin JM, Hsu C. Dietary habits of first-year medical students assessed during a clinical nutrition course. *Nutrition* 1994;10:214-20.
27. Carley KW, Puttaiah R, Alvarez JO, **Heimburger DC,** Anantha N. Diet and oral premalignancy in female South Indian tobacco and betel chewers: A case/control study. *Nutr Cancer* 1994;22:73-84.
28. **Heimburger DC,** Sockwell DG, Geels WJ. Diarrhea with enteral feeding: Prospective reappraisal of putative causes. *Nutrition* 1994;10:392-6.
29. Hensrud DD, **Heimburger DC,** Chen J, Parpia B. Antioxidant status, erythrocyte fatty acids, and mortality from cardiovascular disease and Keshan disease in China. *Eur J Clin Nutr* 1994;48:455-64.
30. **Heimburger DC.** Physician-assisted death should remain illegal: A debate. *J Bibl Ethics Med* 1994;8:41-8.
31. Hensrud DD, **Heimburger DC,** Chen J, Li M, Wang G. Intake and food sources of ascorbic acid in China. *Asia Pacific J Clin Nutr* 1994;3:41-4.
32. **Heimburger DC,** Geels WJ, Thiesse KT, Bartolucci AA. Randomized trial of tolerance and efficacy of a small-peptide enteral feeding formula vs. a whole-protein formula. *Nutrition* 1995;11:360-4.

33. ChrisAnderson D, **Heimbürger DC**, Morgan SL, Geels WJ, Henry K, Conner W, Hensrud DD, Thompson G, Weinsier RL. Metabolic complications of total parenteral nutrition: Effects of a Nutrition Support Service. *JPEN J Parenter Enteral Nutr* 1996;20:206-10.
34. **Heimbürger DC**, Geels WJ, Bilbrey J, Redden DT, Keeney C. Effects of small-peptide and whole-protein enteral feedings on serum proteins and diarrhea in critically ill patients: A randomized trial. *JPEN J Parenter Enteral Nutr* 1997;21:162-7.
35. Hensrud DD, **Heimbürger DC**. Diet, nutrients, and gastrointestinal cancer. *Gastroenterol Clin N Am* 1998;27:325-46.
36. Intersociety Professional Nutrition Education Consortium. Bringing physician nutrition specialists into the mainstream: Rationale for the Intersociety Professional Nutrition Education Consortium. *Am J Clin Nutr* 1998;68:894-8 (**Heimbürger DC**, principal author).
37. **Heimbürger DC**, Stallings VA, Rutzahn R. Survey of physician clinical nutrition training programs. *Am J Clin Nutr* 1998;68:1174-9.
38. Davidson MH, Hauptman J, DiGirolamo M, Foreyt JP, Halsted CH, Heber D, **Heimbürger DC**, Lucas CP, Robbins DC, Chung J, Heymsfield S. Long-term weight control and risk factor reduction in obese subjects treated with orlistat, a lipase inhibitor. *JAMA* 1999;281:235-242.
39. **Heimbürger DC**, Intersociety Professional Nutrition Education Consortium. Physician nutrition specialist track: if we build it, will they come? *Am J Clin Nutr* 2000;71:1048-53.
40. **Heimbürger DC**, Waterbor JW, Fish L, Brooks CM. Cancer Prevention and Control Training Program at the University of Alabama at Birmingham. *J Cancer Ed* 2000;15:69-72.
41. Thomson S, **Heimbürger DC**, Cornwell PC, Turner ME, Sauberlich HE, Fox LM, Butterworth CE, Jr. Correlates of total plasma homocysteine: Folic acid, copper, and cervical dysplasia. *Nutrition* 2000;16:411-6.
42. Piyathilake CJ, Frost AR, Weiss H, Manne U, **Heimbürger DC**, Grizzle WE. The expression of Ep-CAM (17-1A) in squamous cell cancer of the lung. *Hum Pathol* 2000;31:482-7.
43. Piyathilake CJ, Johanning GL, Macaluso M, Whiteside MA, Oelschlager DK, **Heimbürger DC**, Grizzle WE. Localized folate and vitamin B₁₂ deficiency in squamous cell lung cancer is associated with global DNA hypomethylation. *Nutr Cancer* 2000;37:99-107.
44. Piyathilake CJ, Macaluso M, Johanning GL, Whiteside M, **Heimbürger DC**, Giuliano A. Methylenetetrahydrofolate reductase (MTHFR) polymorphism increases the risk of cervical intraepithelial neoplasia. *Anticancer Res* 2000;20:1751-8.
45. Piyathilake CJ, Bell WC, Johanning GL, Cornwell PE, **Heimbürger DC**, Grizzle WE. Accumulation of ascorbic acid by squamous cell cancers of the lung and larynx is associated with global methylation of DNA. *Cancer* 2000;89:171-6.
46. Piyathilake CJ, Frost AR, Manne U, Bell WC, Weiss H, **Heimbürger DC**, Grizzle WE. The expression of fatty acid synthase (FASE) is an early event in the development and progression of squamous cell carcinoma of the lung. *Hum Pathol* 2000;31:1068-73.
47. **Heimbürger DC**, Waterbor JW, Fish L, Brooks CM. An interdisciplinary training program in nutrition sciences and cancer. *J Cancer Ed* 2000;15:130-3.
48. Thomson S, **Heimbürger DC**, Cornwell PC, Turner ME, Sauberlich HE, Fox LM, Butterworth CE, Jr. Effect of total plasma homocysteine on cervical dysplasia risk. *Nutr Cancer* 2000;37:128-33.

49. Piyathilake CJ, Johanning GL, Frost AR, Whiteside MA, Manne U, Grizzle WE, **Heimbürger DC**, Niveleau A. Immunohistochemical evaluation of global DNA methylation: Comparison with *in vitro* radiolabeled methyl incorporation assay. *Biotech Histochem* 2000;75:251-8.
50. Piyathilake CJ, Frost AR, Bell WC, Weiss H, Johanning JL, Niveleau A, **Heimbürger DC**, Grizzle WE. Altered global methylation of DNA: An epigenetic difference in susceptibility for lung cancer is associated with its progression. *Hum Pathol* 2001;32:856-62.
51. Piyathilake CJ, Frost AR, Manne U, Weiss H, Bell WC, **Heimbürger DC**, Grizzle WE. Differential expression of growth factors in squamous cell carcinoma and precancerous lesions of the lung. *Clin Cancer Res* 2002;8:734-44.
52. Waterbor JM, **Heimbürger DC**, Fish L, Etten TJ, Brooks CM. An interdisciplinary Cancer Prevention and Control Training Program in Public Health. *J Cancer Ed* 2002;17:85-91.
53. **Heimbürger DC**, Intersociety Professional Nutrition Education Consortium. Training and certifying gastroenterologists as physician nutrition specialists. *J Clin Gastroenterol* 2002;34:505-8.
54. Piyathilake CJ, Bell WC, Oelschlager DK, **Heimbürger DC**, Grizzle WE. The pattern of expression of Mn and Cu-Zn superoxide dismutase varies among squamous cell cancers of the lung, larynx, and oral cavity. *Head & Neck* 2002;24:859-67.
55. Johanning GL, **Heimbürger DC**, Piyathilake CJ. DNA methylation and diet in cancer. *J Nutr* 2002;132:3814S-3818S.
56. Bakris G, Calhoun D, Egan B, *et al* on behalf of the orlistat and resistant hypertension investigators (**Heimbürger DC**, member). Orlistat improves blood pressure control in obese subjects with treated but inadequately controlled hypertension. *J Hypertens* 2002;20:2257-67.
57. **Heimbürger DC**. Is nutrition on your doctor's radar? The Intersociety Professional Nutrition Education Consortium. *J Am Diet Assoc* 2002;102:1612B.
58. Heimbürger DC. Training and certifying Physician Nutrition Specialists®: the Intersociety Professional Nutrition Education Consortium (IPNEC), USA. *Nutrición Clínica* 2003;6:S51-54. Published in the same issue as Adiestramiento y certificación de médicos especialistas en nutrición: el Consorcio Intersociedades para la Enseñanza Profesional de la Nutrición (the Intersociety Professional Nutrition Education Consortium) de Estados Unidos. *Nutrición Clínica* 2003;6:184-7.
59. Piyathilake CJ, Henao O, Frost AR, Macaluso M, Bell WC, Johanning GL, **Heimbürger DC**, Niveleau A, Grizzle WE. Race- and age-dependent alterations in global methylation of DNA in squamous cell carcinoma of the lung (United States). *Cancer Causes Control* 2003;14:37-42.
60. Piyathilake CJ, Frost AR, Manne U, Weiss H, **Heimbürger DC**, Grizzle WE. Nuclear accumulation of p53 is a potential marker for the development of squamous cell lung cancer in smokers. *Chest* 2003;123:181-6.
61. **Heimbürger DC**, Allison DB, Goran MI, Heini AF, Hensrud DD, Hunter GR, Klein S, Kumanyika S, Kushner RF, Rolls BJ, Schoeller D, Schutz Y. A *Festschrift* for Roland L. Weinsier: nutrition scientist, educator, & clinician. *Obesity Res* 2003;11:1246-62.
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Editorials & Memorials

1. Weinsier RL, **Heimburger DC**. For cancer-free longevity, eat less. *Nutr* 1989;5:172.
2. **Heimburger DC**. Diarrhea with enteral feeding: Will the real cause please stand up? *Am J Med* 1990;88:89-90.
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5. **Heimburger DC**. Response to Duffee. *J Bibl Ethics Med* 1993;7(1):cover.

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8. PrayGod G, Chisenga M, Siame J, Jeremiah K, Woodd S, Koethe JR, Kasonka L, **Heimbürger D**, Changalucha J, Andersen A, Kelly P, Friis H, Filteau S. Comparison of two body composition methods among HIV-infected patients in Tanzania and Zambia. European and Developing Countries Clinical Trials Partnership 2013.
9. **Heimbürger DC**, Warner TL, Carothers CL, Blevins M, Thomas, Y, Gardner P, Primack A, Vermund SH. Recruiting trainees for a global health research workforce: The NIH Fogarty International Clinical Research Scholars & Fellows Program selection process. Consortium for Universities in Global Health, Washington, DC, 2014.
10. Smart AG, Blevins M, Warner TL, Carothers CL, Martin MH, Vermund SH, **Heimbürger DC**. Impact of the NIH Fogarty International Clinical Research Program on trainees' career trajectories: results from a 2013 impact evaluation. Consortium for Universities in Global Health, Washington, DC, 2014.
11. Blevins M, Smart AG, Warner TL, Carothers CL, Vermund SH, **Heimbürger DC**. Outcomes and collaboration among alumni of the NIH Fogarty International Clinical Research Program: results from a 2013 impact evaluation. Consortium for Universities in Global Health, Washington, DC, 2014.

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15. Koethe JR, Blevins M, Woodd S, PrayGod G, Chisenga M, Friis H, Kelly P, **Heimbürger D**, Filteau S. Associations of lean body mass gains with systemic inflammation among malnourished, HIV-infected African adults after 6 weeks of antiretroviral therapy.
16. Nsanya MK, PrayGod G, Woodd S, Kelly P, Chisenga M, Denna M, **Heimbürger D**, Jeremiah K, Koethe JR, Siame J, Changalucha J, Filteau S. Effect of nutritional intervention on self-reported diarrhoea in HIV-infected African adults starting antiretroviral therapy.

17. Chisenga M, Siame J, Kvalsund M, PrayGod G, Rehman AM, Woodd S, Koethe JR, Jeremiah K, Changalucha J, **Heimbürger D**, Friis H, Kelly P, Filteau S. Effect of nutritional intervention on peripheral neuropathy of malnourished HIV-infected adults starting antiretroviral therapy.

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Current Extramurally Funded Grants and Contracts

1D43TW009744 (Heimbürger)

06/01/2015 – 05/31/2020

NIH/FIC

UNZA-Vanderbilt Training Partnership for HIV-Nutrition-Metabolic Research (UVP)

UVP trains Zambian PhD-level HIV researchers, equipping them with research skills in nutritionally- and metabolically-related complications and comorbidities of HIV, while expanding the University of Zambia (UNZA) / University Teaching Hospital's (UTH) research training and investigative capacities. UVP supports UNZA students and faculty members in PhD studies, Zambia-based workshops, Vanderbilt-based grant-writing workshops, and Vanderbilt-based sabbaticals for UNZA faculty members.

Role on the Project: MPI

1D43TW00974404S (Heimbürger)

02/10/2015 – 05/31/2019

NIH/FIC

Clayton-Dedonder Mentorship Fellows Program

This supplement to the UVP grant funds the creation and refinement of a mentorship curriculum within the University of Zambia PhD Program and the training of 10 Clayton-Dedonder Fellows at UNZA.

Role on the Project: PI

R25 → D43TW009337 (Heimbürger, Vermund, Aliyu)

04/04/2012 – 06/30/2022

NIH/FIC

Vanderbilt-Emory-Cornell-Duke Consortium for Global Health Fellows (VECDor)

VECDor aims to nurture a new generation of global health researchers through a collaborative training program with overseas research institutions from low and middle-income countries with which our universities have worked for decades.

Role on the Project: MPI

R25 → T32 CA160056 (Shu, Heimbürger)

09/13/2012 – 08/31/2022

NIH/NCI

Vanderbilt Training Program in Molecular and Genetic Epidemiology of Cancer (MAGEC)

MAGEC addresses the need to build an elite class of epidemiologists to lead the new era of multidisciplinary collaborative research in cancer by delivering individualized didactic and research training to equip post-doctoral fellows from a variety of disciplines with the methodological tools, practical laboratory and survey-research knowledge, and hands-on research and grant writing experience necessary to launch independent careers in the molecular and genetic epidemiology of cancer.

Role on the Project: Co-Director

Recently Completed Extramurally Funded Grants and Contracts

R21 TW010471 (Mutale)

09/01/2016 - 08/31/2018

NIH/FIC

Assessment of capacity to prevent and manage major non-communicable diseases (NCDs) in primary care centres in Zambia: A health systems approach

The goal of this study was to assess health systems capacity to provide Non-Communicable Diseases (NCDs) related services. The study adapted and applied the WHO's PEN NCD tool in the Zambian context. The adapted tool will help in benchmarking interventions aimed at addressing NCDs in low-income settings.

Role on the Project: MPI

1D43TW009348 (Wright, Heimbürger, Haselton)

08/07/2012 – 08/06/2017

NIH/FIC

Vanderbilt-Zambia Network for Innovation in Global Health Technologies (VZNIGHT)

This project aims to nurture 12 American and Zambian postdoctoral research trainees (4 cohorts of 3) in an integrated training environment to develop and deploy new low-resource diagnostic technologies to enable Zambia to move toward its goal of eradicating malaria. Trainees and mentors include basic scientists, engineering scientists, and global health and clinical scientists working together.

Role on the Project: Co-PI

5R24TW007988-04 (Vermund)

07/01/2007 – 09/30/2015

NIH/FIC/NCI/NHLBI/NIDCR

Fogarty International Clinical Research Scholars Support Center @ Vanderbilt-AAMC (FICRSF)

The goal of the program is to help train and inspire both US and foreign graduate students in research techniques and topic areas applicable to resource-limited and/or tropical countries.

Role on the Project: Associate Director

1U2GGH000689 (Heimbürger)

09/30/2012 – 03/29/2015

CDC

University of Guyana-Vanderbilt-UCSF MPH Program for Guyana

Vanderbilt and UCSF partnered with the University of Guyana to develop and implement a Master of Public Health (MPH) program designed by Guyanese health professionals and educators to meet public health needs identified by the Guyanese stakeholders.

Role on the Project: PI

5D43TW001035 (Vermund)

9/30/1998 – 3/31/2015

NIH/FIC/NIDA

Vanderbilt University-CIDRZ AIDS International Training Research Program (AITRP)

The Vanderbilt-CIDRZ AITRP training partnership with international collaborators from 5 countries (Zambia, China, India, Pakistan, Mozambique) is designed to train foreign scientists and key research support staff to conduct independent research and training in their home countries, as well as perform at an internationally credible level in collaborations with both local and foreign scientists.

Role on the Project: Associate Director

3D43TW001035 (Vermund)

09/30/1998 – 03/31/2015

NIH/FIC/CDC

Vanderbilt University-CIDRZ AITRP Capacity Building in Zambia

The purpose of this CDC supported supplement is to build institutional and individual research capacity and sustainability in HIV-related biomedical and behavioral research in Zambia. The activities supported by this supplement aim to develop and train Zambian clinical investigators to be leaders in independent research. We have developmental south-south training activity on behalf of Nigeria, as well.

Role on the Project: Associate Director

IP.2009.33011.004 (Filteau)

11/1/2010 – 10/31/2013

EDCTP (EU)

Nutritional support for African adults starting antiretroviral therapy (NUSTART)

This randomized controlled trial is investigating whether provision of a vitamin and mineral-rich food can improve survival of underweight African adults starting antiretroviral therapy for HIV.

Role on the Project: Co-Investigator

3R21AI076430 (Heimbürger)

9/30/2008-8/31/2012

NIH/NIAID

Metabolism, Micronutrients, and Antiretroviral Therapy Outcomes in Zambia

This project examined the influence of metabolic and micronutrient status on ART outcomes in a population in Lusaka, Zambia at high risk for early antiretroviral therapy mortality.

Role on the Project: PI

1 R25 CA 47888 (Douglas C. Heimbürger, M.D.)

09/20/1988 - 07/31/2009

NIH/NCI

Total direct \$12,745,220

Cancer Prevention and Control Training Program. Role: P.I.

A training program for pre- and post-doctoral students, to increase the pool of chronic disease specialists committed to cancer prevention and control.

3 R25 CA 47888 (Douglas C. Heimbürger, M.D.)

05/01/2008 - 07/31/2009

NIH/NCI

Total direct \$189,801

CURE Minority Supplement for Cancer Prevention and Control Training Program. Role: P.I.

A minority trainee supplement for the Cancer Prevention and Control Training Program.

1 R25 CA 76023 (John W. Waterbor, M.D., Dr.P.H.)

04/01/1999 - 07/31/2009

NIH/NCI

Total direct \$1,486,269

UAB Cancer Research Experiences for Students (CaRES). Role: Co-Director.

A program to provide health professions students with hands-on training in one or more aspects of cancer research; to orient them to the principles of, and approaches to, cancer research; and to familiarize them with the knowledge base and training necessary to embark on a cancer research career.

1 R01 CA 102849 (Chandrika J. Piyathilake, Ph.D.) 06/01/2006 - 05/31/2011
NIH/NCI

HPV Clearance by Folic Acid Supplementation. Role: Consultant.

To investigate the effect of supplementation with folic acid on the clearance of HPV 16 and of any of 17 other specific types of HPVs, and on the incidence of CIN, by conducting a 12-month double-blind, placebo-controlled trial of supplementation with 5 mg of folic acid per day.

R21 AG 027560 (Julie Locher, Ph.D.) 07/01/2008 - 06/01/2010
NIH/NIA Total direct \$275,000

A Multi-Level Self-Management Nutritional Intervention for Homebound Elderly. Role: Co-Investigator

To compare the effectiveness of a multi-level self-management nutritional intervention with a standard of care control group in homebound older adults. The study will use a prospective randomized controlled design to estimate whether a multi-level self-management nutritional intervention results in increased caloric intake, weight loss prevention, increased consumption of macro- and micronutrients, improved quality of life, and reduced morbidity and mortality in homebound older adults.

2 R01 DK51684 (Barbara A. Gower, Ph.D.) 03/15/2006 - 02/28/2009
NIH/NIDDK \$250,000

Long-term follow-up of post-obese black and white women. Role: Co-Investigator.

To determine if an aerobic or resistance training intervention is more effective at maintaining weight loss over time.

(Douglas C. Heimbürger, M.D.) 09/01/2006 - 02/28/2008
UAB Center for AIDS Research \$30,000

Nutritional Causes for Early ART Mortality in Zambia. Role: P.I.

In a cohort of ART-naïve persons living with HIV/AIDS in Zambia who are starting ART, we are (1) determining whether refeeding syndrome occurs and estimating its incidence; and (2) examining whether persons who develop refeeding syndrome are at higher risk of early ART mortality or near-mortality than persons who do not develop refeeding syndrome.

(Edmond K. Kabagambe, Ph.D.) 09/01/2006 - 08/31/2008
UAB Clinical Nutrition Research Center Total direct \$25,000

Diet, Genetic Polymorphisms in Lipid-Metabolizing Enzymes, and ART-Related Dyslipidemia (DGPLEAD). Role: Co-Investigator.

To determine whether SNPs or haplotypes in APOE, APOC3 and CETP genes modify the effect of ART on insulin resistance and plasma lipid profiles among HIV/AIDS patients in Lusaka, Zambia and Birmingham, USA. To determine whether diet modifies the effect of ART on IR and plasma lipids in Zambia.

(Douglas C. Heimbürger, M.D.) 07/15/2006 - 01/15/2007

- Fulbright Scholar Program \$54,000
Zambia Lecturing/Research Award. Role: Awardee.
Support for a 6-month sabbatical conducting nutrition/HIV/AIDS research and teaching clinical nutrition with the Centre for Infectious Disease Research in Zambia and the University of Zambia School of Medicine.
- 1 R03 DK 067357 (Douglas C. Heimbürger, M.D.) 07/01/2004 - 06/30/2007
NIH/NIDDK Total direct \$200,000
Reimbursement Effects on Enrollment in Obesity Treatment. Role: P.I.
A prospective study to determine whether a reimbursement incentive (the prospect of reimbursement of half of the out-of-pocket fee for participation in the UAB *EatRight* Weight Management Program, when it is contingent upon consistent Program participation and loss of $\geq 6\%$ of initial body weight) is associated with (1) a higher rate of Program enrollment and (2) greater percent weight loss, greater reductions in medication dosages and costs, and fewer visits to health care providers after 12 weeks and 9 months.
- 1 R01 CA 105448 (Chandrika J. Piyathilake, Ph.D.) 04/01/2004 - 03/31/2008
NIH/NCI Total direct \$3,526,501
Prognostic Significance of DNA & Histone Methylation. Role: Consultant.
To examine whether the degree of methylation of DNA (global, CpG island, and gene-specific) and of histones (lys 4 & 9), and systemic and cervical cell folate levels correlate with development of CIN 2 or 3 after 12 to 24 months of follow-up.
- 1 R03 (Chandrika J. Piyathilake, Ph.D.) 04/01/2004 - 03/31/2006
NIH/NCI Total direct \$100,000
Effects of folate fortification on cancer prevention and control. Role: Consultant.
To test whether global methylation of DNA and/or histones, methylation of CpG islands, the expression of DNA methyltransferases, and markers of DNA damage (presence of micronuclei) in normal, dysplastic, and cancerous cells of the cervix have changed after food fortification with folate, and whether the survival of subjects with cervical cancer has changed after food fortification with folate.
- 5 RO1 AG 04212 (Cynthia Owsley, Ph.D.) 01/15/2001 - 12/31/2005
NIH Direct each year \$227,500
Visual Dysfunction and Aging: Underlying Mechanisms. Role: Co-Investigator.
To identify the causes of scotopic deficits in older adults and in those with early AMD so that treatment interventions to minimize or reverse these deficits can be developed, thus enhancing older adults' quality of life. Studies will focus on retinal mechanisms that may underlie these impairments.
- 1 R03 AG0 23314 (Julie Locher, Ph.D.) 01/01/2004 - 12/31/2006
NIH/NIA Total direct \$100,000
Eating and Quality of Life in Older Adults with Cancer. Role: Co-Investigator
An investigation of the social and cultural significance of food and eating in community-dwelling older adults with cancer, their caregivers, and their health-care providers, and the effect this significance has on the development, maintenance, or erosion of the social relationships among these individuals and on their quality of life.

- (Douglas C. Heimbürger, M.D.) 10/01/2001 - 09/30/2004
 Dannon Research Institute Total direct \$150,000
 Intersociety Professional Nutrition Education Consortium. Role: P.I.
 A consortium of professional nutrition societies that is establishing a paradigm for physician nutrition specialists that may attract more physicians into the field, educational standards for fellowship training of PNSs, a unified mechanism for certifying PNSs, and developing a long-term plan to increase the pool of PNSs and surmount obstacles that impede the incorporation of nutrition education into the curricula of medical schools and primary-care residency programs.
- SMS995 US20 (Douglas C. Heimbürger, M.D.) 01/15/2002 - 07/31/2003
 Novartis Pharmaceuticals Total direct \$89,307
 Trial of Sandostatin LAR[®] Depot in patients with primary insulin hypersecretion and obesity. Role: P.I.
 A Phase 2 dose-finding trial of octreotide in the treatment of obesity in patients with insulin hypersecretion.
- (Douglas C. Heimbürger, M.D.) 07/01/1998 - 06/30/2003
 Susan Mott Webb Charitable Trust Total direct \$500,000
EatRight Cancer Prevention and Support Program. Role: P.I.
 An innovative program of public and professional education in nutrition and cancer focused on multi-disciplinary nutrition care for patients with cancer and nutrition/cancer research.
- 1 KO7 HL 03934 (Frank A. Franklin, M.D., Ph.D.) 09/30/1998 - 08/31/2003
 NIH/NHLBI Total direct \$695,000
 Nutrition Academic Award for UAB. Role: Co-Investigator.
 To strengthen existing nutrition education programs in the University of Alabama School of Medicine and to develop new programs that will broaden the students' exposure to nutrition education throughout the medical school years.
- 1 R03 CA 81599 (James M. Shikany, Dr.P.H.) 09/22/1999 - 08/31/2003
 NIH/NCI Total direct \$100,000
 The effect of smoking cessation on plasma micronutrients. Role: Co-Investigator.
 A study to test the effects of smoking cessation on plasma micronutrient levels in cigarette smokers.
- OBS 20001 (Douglas C. Heimbürger, M.D.) 01/26/2000 - 01/25/2001
 Glaxo Wellcome Research & Development Total direct \$184,105
 A multicenter, randomized, double-blind, placebo-controlled, parallel-group study to investigate the tolerability and efficacy of oral 1555U88 compared to placebo for the treatment of obesity. Role: P.I.
 A phase 2 clinical trial of an investigational compound for the treatment of obesity.
- 1 R25 CA 75200 (Douglas C. Heimbürger, M.D.) 08/01/1997 - 07/31/2001
 NIH/NCI Total direct \$261,370
 Intersociety Professional Nutrition Education Consortium. Role: P.I.

A consortium of professional nutrition societies that will establish educational standards for fellowship training of physician nutrition specialists; implement a system of governance to accredit and monitor clinical nutrition fellowship programs; and develop standards for certification of physician nutrition specialists.

Prior Intramurally Funded Research Projects

1. *Dietary self-assessment as a tool for teaching preventive nutrition to medical students.* An observational study of the utility of dietary self-assessment as a component of a nutrition course, including a test of the effect of the course on the students' dietary habits.
2. *Reducing costs and complications in parenteral nutrition.* A prospective trial to test the effect of comprehensive monitoring and assistance with parenteral nutrition on the associated costs and complications.
3. *The association of vitamin B₁₂/folate deficiency with oral precancerous lesions in southern India.* A study of the role of deficiencies of folic acid and vitamin B₁₂ in oral leukoplakia in tobacco/betel chewers in southern India.
4. *Folic acid, vitamin B₁₂, and antioxidant vitamin levels in respiratory tissues of smokers and nonsmokers.* Development of methods, with Chandrika Piyathilake, Ph.D. (postdoctoral fellow), for measurement of folate and B₁₂ levels in cells, and their application to studies of folate metabolism in localized tissues of smokers.
5. *The potential role of total plasma homocysteine in the development of cervical dysplasia.* Measurement of plasma homocysteine levels as part of a case-control study of cervical dysplasia. With Stephen Thomson, RD, M.P.H. (doctoral student).
6. *Association of hormone replacement therapy with body fat distribution among postmenopausal women.* With Charlotte Mayo (doctoral student).
7. *Role of folate and other micronutrients in cancer mortality in China.* Measurement of plasma and red blood cell folate levels as part of a large ecologic study of nutrition and cancer mortality in China.
8. *Effects of diet and tobacco use on plasma micronutrients in the NHANES III survey.* Analysis of NHANES III survey data to distinguish the relative effects of diet and tobacco use on plasma micronutrient levels.
9. *Prospective follow-up study of folic acid status and incidence of cervical dysplasia.* An observational study to determine whether lower baseline RBC folate levels are associated with a higher incidence of dysplasia and whether this is influenced by genetic polymorphisms of methylenetetrahydrofolate reductase.

Extracurricular Activities and Interests

- 1973-1974 Spent academic year in Europe, studying intellectual history and Christian philosophy at L'Abri Fellowship in Switzerland (www.labri.org); and the history and philosophy of science and medicine at the University of Cambridge, England. Book-length manuscript, "Necessary Hypotheses: Toward a Christian Epistemology of Science," written during the first two years of medical school.
- 1983-2009 Member, Advisory Board, Christian Medical Ministry of Alabama (www.cmmauab.org)

- 1984-2009 Member, Altadena Valley Presbyterian Church (www.avpc.org). Chaired the Missions Team and Worship Team, served on a Pastoral Search Committee, taught Sunday School, and served as Elder (1994-2003, 2008-2009).
- 1985-2009 Co-Founder and Medical Director (1985-95), SonRise Health Ministries, Inc., a health care ministry that received the 1989 Organization Award of the Office of Senior Citizens Affairs of the Jefferson County (Alabama) Commission
- 1987-1996 Founding Member, Board of Directors, Center for Urban Missions (www.tcum.org/)
- 1988-1992 Founding Chairman, Board of Directors, Peculiar People (Christian drama ministry, www.peculiarpeople.com/)
- 2009-present Member and Chair, Advisory Board, Nashville Medical Christian Fellowship
- 2014 Class of 1978 Chair, Vanderbilt University School of Medicine Reunion
- 2020-present Member, Board of Directors, Siloam Health <https://siloamhealth.org/>

Major Teaching Responsibilities

University of Alabama at Birmingham

Major Courses and Programs

Director, Clinical Nutrition Fellowship Program, UAB Departments of Nutrition Sciences and Medicine (www.uab.edu/clinicalnutritionfellowship), 1988-2009

UAB School of Medicine preclinical curriculum reorganization, 2007-2009

Clinical Co-Director, Gastrointestinal Diseases Module

Director, Nutrition Theme

Co-Director, Special Topic Course, *Clinical Management of Obesity*

NTR 711 *Clinical Nutrition* (≥ 50 contact hours, required for 160 first-year UAB medical students) – Coursemaster, 1989-2007; Co-Coursemaster, 1988; Instructor, 1982 to 2007, when the School of Medicine curriculum was reorganized.

NTR 791 *Advanced Clinical Nutrition, Diagnosis, and Treatment* (for Nutrition Sciences Ph.D. candidates) – Developer and Coursemaster, 1988

NTR 722 *Nutrition, Obesity, and Prevention of Atherosclerosis and Cancer* – Co-developer and Co-Coursemaster, 1994

UAB Cancer Prevention and Control Training Program (CPCTP, www.uab.edu/cpctp)

Director of the Nutrition Sciences components (1988-1991) and overall Director (1991-2009) of this NCI-funded training program, which provided support for more than 110 pre- and postdoctoral trainees in cancer prevention and control during these years. During CPCTP-supported training or within 5 years after completing it, its trainees and graduates collectively produced around 1,000 publications.

Students and Trainees

Clinical Nutrition Fellows

- Kenneth Olson, MD, PhD, 1986-1988. Effect of a high carbohydrate/low fat diet versus a high fat/low carbohydrate diet on weight maintenance, resting metabolic rate, diet-induced thermogenesis, and energy expenditure in man. Private practice, Clinical Nutrition, Birmingham, AL.
- Karen Lazarus, MD, 1989-1992. The effect of medical nutrition education on the patient care provided in a Family Medicine residency program. Physician, Substance abuse treatment program, New York, NY.
- Donald D. Hensrud, MD (also a Master's student), 1990-1992. Antioxidant status, fatty acids, and mortality from cardiovascular disease and Keshan disease in China: support for a hypothesis. Chair, Division of Preventive Medicine, Mayo Clinic, Rochester, MN.
- Donna ChrisAnderson, MD, 1991-93. Correlation of folate status with cancer mortality in a comprehensive survey in China; Reducing costs and complications in parenteral nutrition. Private practice, Clinical Nutrition, New Jersey.
- Louis J. Wilson, MD, 1992-1994. Effects of low-calorie diet on gallbladder function and gallstone formation in obese persons (RL Weinsier, research mentor). Private practice, Gastroenterology & Nutrition, Wichita Falls, Texas.
- Adrian F. Heini, MD, 1993-1995. Mechanisms of weight gain in patients receiving adjuvant chemotherapy for breast cancer. Private practice, Montreux, Switzerland.
- Jaime Aranda-Michel, MD, 1994-1996. *Colonic mucosal folate levels, DNA methylation, and cancer risk*. Assistant Professor, Division of Gastroenterology & Hepatology, Mayo Clinic, Jacksonville, Florida.
- Olusola Oguntolu, MD, 1997-1998. *Hyperglycemia and NF-AT mediated cytokine transcription*. Private practice, Tennessee.
- Jill A. Foster, MD, 1998-2000. *Weight Loss Program Outcomes in a Low-Income Population*. Private practice, Birmingham, Alabama.
- Maurice D. Marholin, DO, 1999. Private practice, Florida.
- Mojgan Rahmani, MD, 2000-2002. *Copper absorption in the deficiency state*. Private practice, Greenville, South Carolina.
- Sattar A. Hadi, MD, 2001-2003. *Effects of weight loss on bone density*. Private practice, Tennessee.
- Aleem U. Dean, M.D., 2003 (mobilized by US Army Reserves; fellowship truncated).
- Gregory C. Batson, M.D., 2005-2006. *Vitamin B₆ status and survival from lung cancer*. Veterans Affairs Medical System, Alabama.
- W. Scott Butsch, M.D., 2005-2007. *Influence of fruit and vegetable availability on risk for obesity in minority populations*. Instructor, Harvard Medical School and Massachusetts General Hospital Weight Center, Boston, Massachusetts.
- Julian Munoz, M.D., 2006-2008. *Ethnic differences in insulin sensitivity*. Instructor Fellow, Division of Endocrinology, University of Michigan.
- Mahboob Khan, MBBS, 2007-2009. *Nutrition and quality of life in esophageal cancer*. Hospitalist, Florence, Alabama.

- Vishwas Kadam, MBBS, 2007-2009. J-1 waiver practice, LaGrange, Georgia.
- Jessica Bartfield, M.D., 2008-2009. Private practice, Chicago, Illinois.
- Lisa Carlson, M.D., 2009. Private practice, Savannah, Georgia.
- Sirakarn Tejavaniya, M.D., 2009. Bangkok, Thailand.

Postdoctoral (Ph.D.) Fellows

- Chandrika J. Piyathilake, Ph.D., 1994-1996. Folic acid, vitamin B₁₂, and antioxidant vitamin levels in respiratory tissues of smokers and nonsmokers. Associate Professor, UAB Department of Nutrition Sciences.

Other Postdoctoral Fellows

- Christopher Nyirenda, MBChB, 2006-2008. *Nutritional Causes for Early ART Mortality in Zambia*. Consultant and Head of Internal Medicine Department, Ndola Central Hospital, Ndola, Zambia.

Doctoral Students

- Fan Chen – Member, Dr.P.H. Committee, Department of Epidemiology, School of Public Health, 1989-90. *Study of cancer of the esophagus in Shanxi Province, China*.
- T. Clifton Murphy, MS, RD – Co-chair, Ph.D. Committee, Nutrition Sciences, 1990-92. *The effects of intradialytic parenteral nutrition on protein turnover in underweight hemodialysis patients*. Department of Research, U.S. Army.
- Kenneth Carley – Member, Dr.P.H. Committee, Department of Public Health Sciences, School of Public Health, 1992-94. *The association of vitamin B₁₂/folate deficiency with oral precancerous lesions in southern India*. Public Health Department, Connecticut.
- Stephen Thomson, MS, RD, – Chairman, Ph.D. Committee, Nutrition Sciences, 1990-1997. *The potential role of total plasma homocysteine in the development of cervical dysplasia*. Assistant Professor, Oregon Health Sciences University.
- Charlotte Mayo – Chairman, Ph.D. Committee, Nutrition Sciences, 1992-1997. Effects of hormone replacement therapy on abdominal and total body fat in postmenopausal women.
- Martin Whiteside – Member, Ph.D. Committee, Nutrition Sciences, 1999-2002. Effect of cisplatin on gene expression and intracellular folate and B₁₂ levels in NSCLC cells.
- Tamara Crutchley Bushell – Member, Ph.D. Committee, Nutrition Sciences, 2003-2004. *Intracellular folate effects on cisplatin activity*.
- Chenxi Wang, M.D. – Member, Ph.D. Committee, Nutrition Sciences, 2003-2004. *Estimation of the effects of risk factors in the presence of strong latent confounders*. Assistant Professor of Biostatistics, University of Louisville School of Medicine.
- Derek M. Huffman – Member, Ph.D. Committee, Nutrition Sciences, 2003-2007. *Effects of exercise & calorie restriction on biomarkers of aging in mice*. Assistant Professor, Albert Einstein College of Medicine.
- Tanya Hyatt – Member, Ph.D. Committee, Nutrition Sciences, 2001-2006. *Ethnic differences in markers of inflammation with weight loss*. Postdoctoral fellow, UAB Trauma Research Center.

- Amanda L. Willig – Co-chair, Ph.D. Committee, Nutrition Sciences, 2005-2010. Contributions of the atrial natriuretic peptide gene system to the relationship between pediatric body fat, fatty acids, and blood pressure. Postdoctoral fellow, UAB.

Junior Faculty

- Christine S. Ritchie, M.D., 1996-2000. *Effect of oral health interventions on nutritional status in home-bound older adults*. SERCA Award, NIH/NIA, 1996-2000. Associate Professor and Director, UAB Center for Palliative Care.
- Chandrika J. Piyathilake, Ph.D., 1997-2001. *Localized vitamin deficiencies and risk for lung cancer*. Preventive Oncology Award, NIH/NCI, 1997-2001. Professor, UAB Department of Nutrition Sciences.

Masters Students

- Katherine M. Tumminello, RD (Nutrition Sciences, Committee chairman), 1989-90. *Clinical comparison of Reabilan HN and Isosource HN*. Coram, Inc.
- Katharine E. Gamble Coats, RD (Nutrition Sciences, Committee member) 1988-91. Hospital malnutrition. A prospective evaluation of general medical patients during the course of hospitalization: A decade follow-up. Homemaker.
- Sheela Thomas, RD (Nutrition Sciences, Committee chairman), 1997-98. *Pilot study of topical nutrition therapy of burn wounds*. Clinical dietitian, Houston, TX.
- Katherine Hubbert, RD (Nutrition Sciences, Committee member), 1997-98. *Evaluation of the effect of weight loss on quality of life of individuals in an outpatient weight loss program*. Instructor, UAB EatRight Weight Management Services.
- Rebecca Ford, RD (Nutrition Sciences, Committee member), 1999-2000. *Folate intake among smokers and non-smokers and the development of squamous cell carcinoma of the lung*.
- Desiree Walker, RD (Nutrition Sciences, Committee member), 1999-2000. *Lipid changes in participants in the EatRight Weight Management Program*.
- Claire Bosire, RD (MSPH, Epidemiology, Committee member and research mentor), 2006. *Development of a dietary intake assessment instrument for Zambia*. Subsequent PhD in cancer epidemiology from Harvard, NCI cancer epi postdoctoral fellowship, then Monitoring and Evaluation Advisor, Walter Reed Army Institute of Research –Tanzania.

Summer Clinical Nutrition Interns, American Society fo Nutrition

- James Keffer, UAB School of Medicine, 1998
- Lee Camp, UAB School of Medicine, 1999
- Sara Hazlett, Johns Hopkins University School of Medicine, 2000
- Stephen Stigler, UAB School of Medicine, 2002
- Stacy Cleaver, UAB School of Medicine, 2005
- Cynthia Hill, UAB School of Medicine, 2006
- Virginia Menendez, UAB School of Medicine, 2007
- Laura Nahm, UAB School of Medicine, 2007
- Merry Lynn Mann, UAB School of Medicine, 2007

- Mary Lauren McCrary, UAB School of Medicine, 2008
- Megan Gladden Brennard, UAB School of Medicine, 2008

Vanderbilt University School of Medicine and Vanderbilt University Medical Center

Major Courses and Programs

- Director, Global Health Research Area, VUSM Emphasis Program, 2009 to 2013 and VUSM Inquiry Program, 2014 to 2019
- Co-Director, Global Health Track, Master of Public Health Program, 2010 to 2019
- Co-Director, PUBH 5542 / MHS 7305, *Foundations of Global Health*, 2009 to 2019
- Director, VUSM Global Health Integrated Science Course, 2012 to 2019

Students and Trainees

Junior Faculty

- Han-zhu Qian, MD, PhD, Institute for Global Health, 2010-2013
- C. William Wester, MD, MPH, Department of Medicine and Institute for Global Health, 2011-2013
- John R. Koethe, MD, Department of Medicine and Institute for Global Health, 2010-2013
- Abraham Mukolo, Ph.D., Institute for Global Health 2011-2012
- Sivakumar Chinnadurai, MD, Department of Otolaryngology, 2012-2014
- Benjamin L. Andrews, MD (Vanderbilt instructor based at the University of Zambia), 2012-2014. *Simplified Severe Sepsis Protocol: A Randomized Trial of a Bundled Intervention for Severe Sepsis in Zambia*. Staff physician, Christ Community Health Center, Memphis, TN.
- Lindy Fenlason, MD, MPH, Department of Pediatrics, 2012-2015
- Violet Kayamba, MBChB, MMed, University of Zambia Department of Medicine, 2013-present. *Influence of HIV viral suppression on gastric pre-malignant lesions, pH and Helicobacter pylori infection*.
- Wilbroad Mutale, MBChB, MS, PhD, University of Zambia School of Public Health, 2015-2018. *HIV-NCD research capacity mapping in Zambia*.
- Moses Mukosha, MSc, MSc, University of Zambia Department of Basic Health Sciences, 2017-2018. *Zinc, preeclampsia, and fetal growth restriction in Zambia*.
- Michelle Kvalsund, DO, Neurology, 2016-present. *Influence of diet and nutritional and HIV status in distal symmetric polyneuropathies in urban and rural Zambia*. Assistant Professor of Neurology, Michigan State University and University of Zambia.
- Hikabasa Halwiindi, PhD, University of Zambia School of Public Health. *Metabolic syndrome in Zambian adolescents with and without HIV*.

Postdoctoral Fellows

- John R. Koethe, MD, Infectious Diseases, 2008-10. *Nutritional Causes of Early Antiretroviral Mortality in Zambia*. Associate Professor, Dept of Medicine, Vanderbilt University.
- Benjamin L. Andrews, MD (Zambia), Internal Medicine, 2009-12. *Simplified Severe Sepsis Protocol: A Randomized Trial of a Bundled Intervention for Severe Sepsis in Zambia*. Christ Community Health Center, Memphis, Tennessee.

- Jeremy S. Slone, MD, MPH, Pediatric Hematology/Oncology, 2009-12. *Risk for Abandonment of Pediatric Oncology Care in Zambia*. Assistant Professor of Pediatrics (Hematology/Oncology), Baylor College of Medicine; Adjunct Associate Professor, University of Botswana School of Medicine & Princess Marina Hospital, Gaborone, Botswana; Medical Director, Texas Children's Hospital Botswana Program, Global Hematology Oncology Pediatric Excellence (HOPE).
- Rachel T. Idowu, MD, MPH, Public Health, 2010-12. *Surgical Capacity in District Hospitals in Kenya*. HIV Branch Chief, CDC Mozambique.
- Michael Bestawros, MD, MPH, Cardiology, 2011-14. *Systemic Inflammation and Cardiovascular Instability as Contributors to Early Antiretroviral Mortality in Undernourished Adults with AIDS in Zambia*. Private practice, Albuquerque, New Mexico.
- Ashley L. Canipe, MD, Gastroenterology, 2011-14. *Microbial translocation is a major contributor to high chronic systemic inflammation in malnourished HIV-infected Zambians initiating antiretroviral therapy*. Fellow, University of Florida Division of Gastroenterology.
- Sapna Shah, MD, Endocrinology & Diabetes, 2012-14. *Predictors of Gestational Diabetes in India*.
- Jaime Libes, MD, MPH, Pediatric Hematology/Oncology, 2012-14. *Wilms tumor in Kenyan children: molecular disparities by race, and environmental and cultural factors associated with survival*. Academic pediatric oncologist, Peoria, IL.
- Takondwa Chidumayo, MBChB, University of Zambia Department of Medicine, 2012-14. *Mechanisms of early mortality in antiretroviral therapy in Zambia*. Lecturer, University of Zambia School of Medicine.
- Michelle Kvalsund, DO, Neurology, 2013-2016. *Distal symmetric polyneuropathies in HIV+ and HIV- adults in urban and rural Zambia*. Assistant Professor of Neurology, Michigan State University and University of Zambia.
- Andrew Tomita, MPA, PhD, Columbia University / University of KwaZulu-Natal, 2014-2015. *Neuropsychiatric Management in KwaZulu-Natal Investigation (NomaKwaZi)*. Assistant Professor, Columbia University, based in South Africa.
- Nathan Bullington, MD, Vanderbilt Infectious Diseases Fellow, 2013-2015. Private practice, Louisville, KY.
- Kidola Jeremiah, PhD, National Institute of Medical Research, Mwanza, Tanzania, 2016-2019. *Assessment of diabetes in Tanzanian adults with HIV*. Researcher, National Institute of Medical Research, Mwanza, Tanzania.
- Briana Furch, MD, Vanderbilt-Emory-Cornell-Duke Global Health Fellow, Zambia, 2018-2020. *Interactions of Schistosoma and HIV in sub-Saharan Africa*.
- Fiona Strasserking, MD, Vanderbilt Cardiology Fellow, 2018-present. *Pregnancy-associated cardiomyopathy in Zambian women*.
- Sonya Reid-Lawrence, MD, Vanderbilt Hematology/Oncology Fellow, MPH Global Health student, and MAGEC Fellow, 2018-2020
- Belinda Kweka, MBBS, National Institute of Medical Research, Mwanza, Tanzania, 2018-2020. *Validity of HbA1c in Tanzanian adults with hemoglobinopathies*.

- Isaac Fwemba, PhD, University of Zambia Department of Biostatistics, 2020-present. *Predicting longitudinal outcomes dynamics of HIV-related non-communicable diseases and metabolic syndrome in Zambia: A Bayesian multi-state modeling approach.*

Doctoral Students

- Webster Kasongo, MPH (PhD, Epidemiology; AITRP trainee), 2010-13. *Trends in the Prevalence of HIV Among Pregnant Women in Zambia.*
- Gregory T. Niemesh (PhD, Economics), 2011-12. *The Economic and Health Benefits of Iron Fortification in the United States.*
- Derick Munkombwe, (PhD. Pharmacology, UNZA; NUSTART and UVP trainee), 2012-2016. *Lecturer and Head, Department of Pharmacy, University of Zambia School of Medicine. Effects of electrolyte supplementation via lipid-based nutrient supplements on renal electrolyte loss in Zambian HIV/AIDS patients starting antiretroviral therapy*
- Violet Kayamba, MBChB, MMed, University of Zambia Department of Medicine, 2014-2019. *Gastric cancer in Zambia: An assessment of associated factors and strategies for early case detection.*
- Lloyd Mulenga, MBChB, MMed, MSc ID, University of Zambia Department of Medicine, 2015-2019. *Associations of insulin resistance and virologic outcomes in Zambia.*
- Aggrey Mweemba, MBChB, MMed, University of Zambia Department of Medicine, 2015-present. *Impact of tenofovir-based cART on kidney dysfunction in HIV-infected children aged 5-19 years old.*
- Benson Hamooya, MSc, University of Zambia, 2017-present. *Predictors of virological failure among HIV patients with metabolic syndrome receiving antiretroviral therapy in Zambia*
- Freeman Chabala, MSc, University of Zambia, 2017-present. *Predictors of renal dysfunction among Zambian adults with HIV.*
- Katayi Mwila- Kazimbaya, MSc, University of Zambia, 2017-present. *Nutrition, Environmental Enteric Dysfunction and Rotavirus Immunity.*
- Longa Kaluba, MSc, University of Zambia, 2017-present. *Endothelial dysfunction in Zambian adults living with HIV.*
- Sepiso Masenga, MSc, University of Zambia, 2017-present. *Cellular immune markers associated with hypertension in Zambian adults living with HIV.*
- Theresa Chikopela, MS, MS, University of Zambia, 2017-present. *Plasma nitrotyrosine and vascular reactivity in Zambian adults living with HIV.*
- Chrispin Mweemba, MS, University of Zambia, 2018-present. *Health inequality among hypertensive patients in Zambia, stratified by HIV status.*

MPH Students

- Vanderbilt MPH Global Health Track students – Academic Advisor to half of the students in the classes entering 2012 through 2018. Additionally mentored the following students.
- Albert Mwangi, MBChB (AITRP trainee), 2010-12. *Determinants of Retention Efficiency in the Antiretroviral Therapy Program in Zambia.* Coordinator, National HIV/AIDS Program, Ministry of Health, Zambia. Mentorship committee.

- Jay Bala, 2012-2013. *Diagnostic trends in rural health centers in Southern Zambia, 2003-2009: Informatics for clinic data management*. Primary mentor.
- Christopher Nyirenda, MBChB (AITRP trainee), 2012-2014. *Plasma fatty acids in Zambian adults with HIV/AIDS: relation to dietary intake and cardio-vascular risk factors*. Consultant and Head of Internal Medicine Department, Ndola Central Hospital, Ndola, Zambia. Primary mentor.
- Crispin Moyo, MBChB (AITRP trainee), 2012-2014. *Facility-level analysis of the impact of introduction of tenofovir on HIV outcomes in Zambia*. Chief Clinical Officer, Ministry of Health, Zambia. Mentorship committee.
- Liz Dancel, MD, 2012-2014. *Acculturation and infant feeding styles in a Latino population: Results from an ongoing randomized controlled trial of obesity prevention*. Mentorship committee.
- Mary DeAgostino-Kelly, MD, 2013-2015. *Analysis of sex differences within the Nutritional Support for Africans Starting Antiretroviral Therapy (NUSTART) study results*. Mentorship committee.
- Cristin Quinn, MD, 2013-2015. *Comprehensiveness of care provided at Global HIV treatment sites in the leDEA Network: 2009-2014*. Mentorship committee.
- Andrew Wu, MD, 2013-2015. *Incidence and risk factors for respiratory syncytial virus and human metapneumovirus infections among children in the remote highlands of Peru*. Mentorship committee.
- Savannah Hurt, MD, 2014-2016. *Pediatric perioperative mortality rates: A two-year analysis of prospective, electronic data collection in rural East Africa hospitals*. Mentorship committee.
- Jillian Balsler, 2014-2016. *Impact of adverse childhood experiences on long-term outcomes in vulnerable populations: Retrospective analysis*. Mentorship committee.
- Conor McWade, 2014-2017. *Individual and household influences on food security and dietary diversity in seven Dominican batey communities*. Primary mentor.
- Katie McGinnis, 2015-2017. *An exploratory investigation of hospital staff & parent/caregiver perceptions of children's psychosocial needs & hospital experiences in two Kenyan children's hospitals*. Primary mentor.
- Rany Octaria, MD, 2015-2017. *Social network analysis of Tennessee hospitals in relation to carbapenem-resistant Enterobacteriaceae patient transfers*. Mentorship committee.
- Kidane Sarko, 2015-2017. *Influence of HIV status disclosure on facility-based delivery and post-partum retention for mothers in a prevention clinical trial in rural Nigeria*. Primary mentor.
- Folasade Arinze, MD, 2016-2018. *Immunodeficiency at the start of combination antiretroviral therapy: Data from Zambézia Province, Mozambique*. Mentorship committee.
- Joseph Starnes, 2016-2019. *Determinants of under-5 mortality in Migori County, Kenya*. Mentorship committee.
- Selorm Dei-Tutu, MD, 2016-2019. *Correlating maternal iodine status with neonatal thyroid function in two hospital populations in Ghana*. Fogarty International Center Vanderbilt-Emory-Cornell-Duke Consortium for Global Health Fellow in Ghana, 2017-18. Mentorship committee.

- Ben Acheampong, MD, 2017-2019. *Screening of Ghanaian children with handheld echocardiography*. Mentorship committee.
- Meghana Parikh, DVM, 2017-2019. *Norovirus epidemiology in Middle Tennessee*. Mentorship committee.
- Victoria Umutoni, 2019-2021. *To be determined*.
- Raphael Abayateye, 2019-2021. *To be determined*.
- Ni Ketut Wilmayani, MD, 2019-2021. *To be determined*.

Medical Students (VUSM Emphasis and Inquiry Programs, and Fogarty International Center Global Health Program for Fellows & Scholars)

- Vanessa Newton, 2009-11, Mysore, India
- Tina Shah, 2009-11, Lwala, Kenya
- Kathleen Doherty, 2010-12, Edendale, South Africa
- Megan Ryan, 2010-12, Mysore, India
- Thomas Davis, 2010-12, Guatemala
- Ka-wai (Grace) Ho, 2010-12, Hong Kong
- Brian Heiniger, 2011-13, Zambia
- Justin Banerdt, BS, 2016-present. *Delirium prevalence and outcomes among acutely ill patients presenting to the University of Zambia Teaching Hospital*. Vanderbilt-Emory-Cornell-Duke Consortium for Global Health Fellows year in Zambia, 2017-18.

Selected Extramural Presentations

- 10 Apr 1981 St. Louis University School of Medicine, St. Louis, MO – “Current Concepts in Clinical Nutrition” – Program Director
- 17 Mar 1982 Nutrition Update Seminar, Indianapolis, IN – “Physical Signs of Nutritional Deficiencies”
- 29 Sep 1982 V.A. Clinical Nutrition Seminar, Detroit, MI – “Physical Signs of Nutritional Deficiencies”
- 24 Jan 1983 7th Clinical Congress, American Society for Parenteral and Enteral Nutrition, Washington, DC – “Home Parenteral Nutrition in Short Bowel Syndrome”
- 9 Mar 1983 Good Samaritan Hospital, Vincennes, IN – “Nutritional Support of Cancer Patients”
- 22 Sep 1983 Conference on Nutritional/Pharmacological Interaction, VA Hospital, Jackson, MS, – “Complications of Parenteral Nutrition” and “Laboratory Assessment of Nutritional Status”
- 11 Oct 1983 Mountain Area Health Education Center, Asheville, NC – “Importance of Nutritional Support of Hospitalized Patients”
- 22 Oct 1983 Vitamin Nutrition Information Service Conference, Sturbridge, MA – “Vitamin Needs in the Clinical Setting”
- 1–16 Dec 1983 Visiting Professor, Shandong Medical College and Qingdao Medical College, Jinan and Qingdao, China
- 15 Feb 1984 Yale University School of Medicine Human Nutrition Lectures, New Haven, CT – “Hospital Malnutrition: Recognition and Assessment”

- 14 Apr 1984 Annual Meeting, Southeastern Society of Hospital Pharmacists, Athens, GA – “Nutritional Support Teams”
- 22 Sep 1984 Annual Meeting, Florida Division, American Cancer Society, Ft. Lauderdale, FL – “Nutrition and Cancer”
- 12 Feb 1985 Yale University School of Medicine Human Nutrition Lecture Series, New Haven, CT – “Hospital Malnutrition: Recognition and Assessment”
- 22 Mar 1985 Conference on Principles of Treatment of Lung Cancer, Vincennes, IN – “Nutrition and Lung Cancer”
- 22 Mar 1985 Mead Johnson Co., Evansville, IN – “Folic Acid and Bronchial Metaplasia”
- 10–24 Apr 1985 Visiting Professor, Chang Gung Memorial Hospital, Taipei, Taiwan
- 24,25 Oct 1985 VA Medical Center, Fayetteville, AR – “Hospital Malnutrition” and “Parenteral Nutrition”
- 6 Feb 1986 Co-moderator, Nutrition Section, Southern Regional Meeting, American Federation for Clinical Research
- 21 Apr 1986 Louisiana State University School of Medicine Clinical Nutrition Course, New Orleans, LA – “Use and Abuse of Vitamins”
- 22 Apr 1986 VA Medical Center, Poplar Bluff, MO – “Hospital Malnutrition” and “Parenteral Nutrition”
- 9 May 1986 Alabama Scientific Meeting, American College of Physicians, Sandestin, FL – “Rational Approach to Enteral Feeding”
- 12 Nov 1986 High Point Regional Hospital, High Point, NC – “Hospital Malnutrition”
- 13 Nov 1986 Rowan County Medical Society, Salisbury, NC – “Nutrition Update”
- 19 Mar 1987 University of South Florida College of Medicine Postgraduate Seminar, Tampa, FL – “Rational Choices in Enteral Feeding Formulas”; “How Should a Nutritional Assessment Be Carried Out?”; and Medical Grand Rounds, “Nutritional Factors in Cancer Prevention”
- 1 May 1987 Presentation of paper, Annual Meeting, American Society for Clinical Nutrition – “Improvement in bronchial squamous metaplasia in smokers treated with folate and vitamin B₁₂”
- 9 Jul 1987 North Chicago Medical School and V.A. Medical Center, Chicago, IL – “Nutritional Factors in Cancer Prevention”
- 23 Jul 1987 Annual Meeting, American Association for Clinical Chemistry, San Francisco, CA – “Hospital Malnutrition”
- 22 Sep 1987 Annual Meeting, American College of Nutrition, Chicago, IL – “Role of Folate and B₁₂ in Prevention of Cancers of the Lung and Cervix”
- 14 Jan 1988 Grand Rounds, Rowan County Medical Society, Salisbury, NC – “Medical Ethics”
- 18 Feb 1988 Grand Rounds, Bethesda Memorial Hospital, Boynton Beach, FL – “Nutritional Factors in Cancer Prevention” and “Nutrition Support Nuts and Bolts”
- 21 Oct 1988 Vanderbilt University School of Medicine Alumni Reunion, Nashville, TN – “Role of Folic Acid in Carcinogenesis”
- 25 Oct 1988 Rapides General Hospital, Alexandria, LA – “Complications of Enteral Feeding”
- 22 Feb 1990 Division of Gastroenterology, University of Texas Southwestern, Dallas, TX – “Malnutrition in Hospitalized Patients: Physiology and Therapy”

- 20 Mar 1990 Vanderbilt University School of Medicine, Nashville, TN – “Nutritional Factors in Cancer Prevention”
- 20 Apr 1990 Coons–Farrar Endowment Lectureship, Harding University, Searcy, AR – “Nutritional Factors in Cancer Prevention;” “The Role of Folic Acid in Cancer Prevention,” “The Bible on Medical Treatment at the End of Life,” and “Malnutrition in Hospitalized Patients”
- 30 Jan 1991 15th Clinical Congress, American Society for Parenteral and Enteral Nutrition, San Francisco, CA – “Peptide–Based Enteral Feeding Formulas”
- 11 Apr 1991 Annual Meeting, American College of Physicians, New Orleans, LA – “Update on Nutrition and Cancer Prevention”
- 12 Sep 1991 Fall Postgraduate Course, American Society for Parenteral and Enteral Nutrition, Chicago, IL – “The Western Diet: An Historical Perspective”
- 14 Sep 1991 Georgia Scientific Meeting, American College of Physicians, Pine Mountain, GA – “Nutritional Issues in the Critically Ill”
- 31 Oct 1991 International Symposium, “Vitamins and Cancer Prevention,” Pennington Biomedical Research Center, Baton Rouge, LA – “Premalignant Lesions of the Lung”
- 4 Dec 1991 Medical Grand Rounds, University of Kentucky Medical Center, Lexington, KY – “Nutritional Support of Critically Ill Patients”
- 20–21 Jan 1992 16th Clinical Congress, American Society for Parenteral and Enteral Nutrition, Orlando, FL – Symposium Chair, “Dietary Guidelines: Impact on Disease Prevention;” Presenter, “Specific Nutrients in Cancer Prevention” and “Practical Approach to the Hyperlipidemic Patient”
- 10 Feb 1992 International Conference, “Beyond Deficiency: New Views on the Function and Health Effects of Vitamins,” New York Academy of Sciences, Arlington, VA – “Localized Deficiencies of Folic Acid in Aerodigestive Tissues”
- 28 Mar 1992 National Science Writer’s Conference, “Beyond Deficiency: Vitamin Issues of the ‘90’s,” Vitamin Nutrition Information Service, Captiva Island, FL – “New Findings on Folic Acid”
- 23 Apr 1992 Louisiana State University School of Medicine Clinical Nutrition Course, New Orleans, LA – “Practical Aspects of Enteral Nutrition”
- 12 June 1992 Roanoke Memorial Hospitals, Roanoke, VA – “Nutritional Support of Hospitalized Patients”
- 1 Sep 1992 Tallahassee Memorial Medical Center, Tallahassee, FL – “Parenteral Nutrition for the Critically Ill”
- 15 Sep 1992 International Symposium, “Tobacco Smoking and Nutrition,” University of Kentucky, Lexington, KY – “Cigarette Smoking and Bronchial Squamous Metaplasia: Improvement with Folate and Vitamin B₁₂”
- 19 Nov 1992 Johns Hopkins Hospital Conference, “Current Topics in Nutrition,” Baltimore, MD – “Physical Findings of Nutrient Deficiencies and Excesses”
- 11 Mar 1993 Methodist Hospital conference, “Nutrition in Medical Practice,” Memphis, TN – “Diarrhea in the Tube–Fed Patient”
- 19 Apr 1993 Louisiana State University School of Medicine Clinical Nutrition Course, New Orleans, LA – “Nutritional Factors in Cancer Prevention”

- 17 Mar 1994 Symposium on Adjuvant Nutrition in Cancer Treatment, San Diego, CA – “Nutrients That May Reverse Premalignant Conditions”
- 21 Apr 1994 Public Health Nutrition Update Conference, “Antioxidant Nutrients and Cancer,” Schools of Medicine and Public Health, University of North Carolina at Chapel Hill – “The Cancer Process: Initiation, Promotion, and Progression;” “B-Vitamins”
- 19 May 1994 American College of Physicians Internal Medicine Board Review Course, Birmingham, AL – “Nutrition”
- 5 Aug 1994 Nashville V.A. Medical Center conference on “Medical Nutrition Therapy Effects on the Immune System,” Nashville, TN – “Nutrition and Cancer Prevention—What’s New & What Works?”
- 30 Mar 1995 Enteral Nutrition Odyssey, Augusta, GA – “The Quest for Abolishing GI Complications” and “Meds That Make ‘Em Run”
- 7 Apr 1995 Annual Meeting, Alabama Section, American College of Ob/Gyn, Perdido Beach, AL – “Obesity”
- 19 Apr 1995 Louisiana State University School of Medicine Clinical Nutrition Course, New Orleans, LA – “Enteral Nutrition”
- 15–20 May 95 Visiting Professor, Chinese Nutrition Society, Fu Jen University, & Chang Gung Memorial Hospital, Taipei & Kaohsiung, Taiwan
- 25 May 1995 American College of Physicians Internal Medicine Board Review Course, Birmingham, AL – “Nutrition”
- 30 Oct 1995 MRC Dunn Nutrition Centre, Cambridge, England – “Is Folate An Anticarcinogen?”
- 17 May 1996 American College of Physicians Internal Medicine Board Review Course, Birmingham, AL – “Nutrition”
- 29 Jan 1997 21st Clinical Congress, American Society for Parenteral and Enteral Nutrition, San Francisco, CA – Workshop Chair, “Ethics in Nutrition Care” and presenter, “Ethics of Feeding in Terminal Illness”
- 18 Jan 1998 22nd Clinical Congress, American Society for Parenteral and Enteral Nutrition, Orlando, FL – “Nutritional Factors in Cancer Prevention”
- 5–6 April 1998 Advances and Controversies in Clinical Nutrition (Mayo Clinic/ASPEN), Dallas, TX – “Homocysteine in Health & Disease” and “Troubleshooting Problems on Enteral Feedings”
- 18 April 1998 Symposium Director, Experimental Biology ’98, San Francisco, CA – “Medical Nutrition Education: Bringing Physician Nutrition Specialists into the Mainstream”
- 20 April 1998 Nutrition Department Heads Meeting, Experimental Biology ’98, San Francisco, CA – “Multi-society Efforts to Enhance Nutrition Credentialing”
- 14 Aug 1998 Colorado Society for Parenteral and Enteral Nutrition, Denver, CO – “Nutrition & Cancer Prevention” and “Homocysteine in Health & Disease”
- 14 Jan 1999 Vanderbilt University Clinical Nutrition Research Unit, Nashville, TN – “Is Folate an Anticarcinogen?”
- 1 Feb 1999 Satellite video presentation, 23rd Clinical Congress, American Society for Parenteral and Enteral Nutrition, San Diego, CA – “Nutritional Factors in Cancer Prevention”

- 27 Mar 1999 Gastroenterology Training Directors Conference, Chicago, IL – “Training Physician Nutrition Specialists”
- 17 Apr 1999 ASCN/Dannon Institute Award Lecture, American Society for Clinical Nutrition annual meeting, Washington, DC – “Physician Nutrition Specialist Track: If We Build It, Will They Come?”
- 25 Sept 1999 Michigan Society for Parenteral and Enteral Nutrition, Traverse City, MI – “Nutritional Factors in Cancer Prevention”
- 30 Sept 1999 Annual meeting, American College of Nutrition, Washington, DC – “Training physician nutrition specialists”
- 1–5 Nov 1999 Invited guest, Nestlé International Conference on Nutrition and Cancer, Kuala Lumpur, Malaysia.
- 26 Jan 2000 Annual meeting, American Society for Parenteral & Enteral Nutrition, Nashville, TN – “Training physician nutrition specialists” and “Medical Ethics”
- 25 Mar 2000 Gastroenterology Training Directors Conference, Chicago, IL – “Nutrition Training for GI Fellows”
- 13 Oct 2000 Symposium, Annual Meeting, American College of Nutrition, Las Vegas, NV – “Training the Physician Nutrition Specialist”
- 9 Nov 2000 Eleventh Annual Raymond and Mortimer Sackler Lecture, Norwalk Hospital, Norwalk, CT – “Can Diet Prevent Cancer?”
- 10 Jan 2001 Cancer Prevention and Control Colloquia Lecture Series, Office of Preventive Oncology, National Cancer Institute, Bethesda, MD – “Hard Lessons in Nutrition & Cancer: Fat, Fiber, & β -carotene”
- 21 Jan 2001 Nutrition for the Practicing Clinician course, American Society for Parenteral and Enteral Nutrition, Chicago, IL – “Can Dietary Changes Prevent Cancer?”
- 29–30 Jan 2001 Visiting Professor, University of Louisville School of Medicine, Louisville, KY – “Can Dietary Changes Prevent Cancer?” and “Enteral Feeding”
- 27–28 Sep 2001 Symposium on “Teaching Nutrition in the Medical Curriculum,” Mexican Health Foundation, Nestle Nutrition Fund, and Mexican Association of Schools of Medicine, Mexico City, Mexico – “Training and Certifying Physician Nutrition Specialists: The Intersociety Professional Nutrition Education Consortium”
- 23 Feb 2002 Nutrition for the Practicing Clinician course, Nutrition Week, San Diego, CA – “Can Dietary Changes Prevent Cancer?”
- 25 Feb 2002 Chair, Intersociety Professional Nutrition Education Consortium symposium, Nutrition Week, San Diego, CA – “Training & Certifying Physician Nutrition Specialists – A New Paradigm”
- 17 Jan 2003 Nutrition for the Practicing Clinician course, American Society for Parenteral and Enteral Nutrition, San Antonio, TX – “Complementary & Alternative Medicine in the Prevention of Cancer & CVD”; Session Moderator, “Ethics”
- 2 Apr 2005 Medical Nutrition Education Workshop, Annual Meeting, American Society for Clinical Nutrition, San Diego, CA – “Training & Certifying Physician Nutrition Specialists”
- 14 Oct 2005 CME Conference, Southwest Georgia Area Health Education Center, Albany, GA – “The Impact of Obesity on Cancer”
- Aug–Dec 2006 Visiting Professor, University of Zambia Teaching Hospital, Lusaka, Zambia

- 12 Oct 2007 Annual meeting, American Association for Cancer Education, Birmingham, AL – “The UAB Cancer Prevention and Control Training Program”
- 18 June 2008 Centre for Infectious Disease Research in Zambia, Lusaka, Zambia – “Nutritional Causes for Early ART Mortality in Zambia”
- 15 Oct 2008 Division of Infectious Diseases, Vanderbilt University, Nashville, TN – “Nutrition-Related Impact of Antiretroviral Therapy in Zambia”
- 23 Oct 2008 NIH Workshop, Identifying Priority Research Questions on the Interaction Of Nutrition and the Clinical Management of HIV/AIDS, Bethesda, MD – “Safety and Efficacy of Available Nutritional Interventions: From the Clinical Care Perspective and in the Context of ART”
- 6 Feb 2009 Vanderbilt Institute for Global Health, Nashville, TN – “Nutrition in Resource-Limited Settings”
- 18 Apr 2009 Chair, Graduate & Professional Education Forum, American Society for Nutrition, New Orleans, LA – “Nutrition in Global Health Education”
- 18 June 2009 Shandong University School of Medicine, Jinan, China – “Nutritional Factors in Cancer Prevention”
- 9 July 2009 NIH Fogarty International Clinical Research Scholars and Fellows orientation, Bethesda, MD – “Nutrition in Resource-Limited Settings”
- 5 Dec 2009 Summit Addressing the Physician Nutrition Expert Shortage, Orlando, FL – “The Intersociety Professional Nutrition Education Consortium and American Board of Physician Nutrition Specialists – What Have We Learned?”
- 26 March 2010 National AIDS Research Centre, Pune, India – “Nutritional Causes for Early ART Mortality in Zambia”
- 15 April 2010 Annual meeting, Genetic Metabolic Dietitians International, Baltimore, MD – “Assessment of Vitamin and Mineral Needs in Metabolic Patients”
- 14 May 2010 Alfredo Lopez-S Annual Lecture, Medical Grand Rounds, Louisiana State University Health Sciences Center, New Orleans, LA – “Nutrition & HIV/AIDS in Resource-Limited Settings: Present Realities & Future Prospects”
- 8 Nov 2010 Visiting Professor, Harding University, Searcy, AR – “Exploring Careers in Global Health” and “Nutritional Issues in Resource-Limited Settings”
- 17 Feb 2011 Medical Grand Rounds, Vanderbilt University – “Nutrition & HIV/AIDS in Resource-Limited Settings: Present Realities & Future Prospects”
- 17 June 2011 AMPATH, Moi University, Eldoret, Kenya – “Nutrition & HIV/AIDS in Resource-Limited Settings: Present Realities & Future Prospects”
- 9 Oct 2011 U Texas Southwestern, Dallas, TX – “Research Training Opportunities in Global Health: Lessons from the Fogarty International Clinical Research Scholars Program”
- 11 Nov 2011 Juan M. Navia Memorial Symposium, University of Alabama at Birmingham – “Nutritional Factors in Early Antiretroviral Therapy (ART) Mortality in Africa: The NEMART, NUSTART, and NUMMA Studies”
- 8-9 Apr 2013 International Workshop on Nutrition and HIV in Africa, Jimma University, Jimma, Ethiopia – “Nutritional and metabolic abnormalities in patients on antiretroviral therapy”

- July 2012 thru 2015 Fogarty International Center Global Health Fellows Orientation, Bethesda, MD – “Manuscript Writing” and “Effective Use of PowerPoint and Word”
- 8 Sep 2014 US Investigators’ Network Symposium on Global Non-Communicable Diseases Research, Emory University, Atlanta, GA – “The Value Added: Impact of the Fogarty International Clinical Research Scholars and Fellows Program”
- 31 Oct 2014 Faculty of Medicine, Universitas Indonesia, Jakarta – “Roles of Physician Nutrition Specialists and Nutrition Support Teams in Delivering Nutrition Care”
- 1 Nov 2014 First Jakarta Annual Clinical Nutrition Meeting, Jakarta, Indonesia – “Current Concepts of Nutrition Support for Critical Illness” and “Current Issues of Nutrition Support for HIV-AIDS”
- 5 Feb 2015 University of Texas Medical Branch, Galveston, TX, Intensive Course in Tropical and Travel Medicine – “Nutrition in Resource-Limited Settings”
- 15 July 2015 Cancer symposium, Universidad Nacional Autónoma de Nicaragua, León, Nicaragua – “Nutrition in Patients with Cancer”
- 19 Jan 2016 Co-director and speaker, UNZA-Vanderbilt Partnership Symposium, *HIV, Nutrition, and NCDs: Knowledge Gaps and Burning Issues*, Lusaka, Zambia
- 11 Apr 2016 Moderator, NIH Fogarty Global Health Program for Fellows and Scholars Alumni Panel, Consortium of Universities for Global Health Meeting, San Francisco, CA
- 27 May 2016 Nutrition Association of Zambia conference, Lusaka, Zambia – “HIV as an Atypical NCD” and “Nutrition & HIV/AIDS in Resource-Limited Settings”
- 8 Aug 2016 Co-organizer, moderator, and presenter, Global Partnerships to Advance NCD Research within the Sustainable Development Goals Agenda, Emory University, Atlanta, GA
- 16 Dec 2016 University of Tennessee College of Medicine, Chattanooga, TN, Internal Medicine Grand Rounds – “From Wasting to Obesity and Chronic Diseases: Intersections of HIV and Nutrition”
- 22-24 Jan 2017 Director, Chronic Consequences of Global Infectious Diseases, sponsored by the FIC Vanderbilt-Emory-Cornell-Duke Consortium for Global Health Fellows and the Vanderbilt Institute for Global Health, Nashville, TN
- 6-7 Mar 2017 Co-director and speaker, UNZA-Vanderbilt Partnership Workshop, *Methods for Research in HIV, Nutrition, and Metabolism*, Lusaka, Zambia
- 7 Apr 2017 Moderator, NIH Fogarty Global Health Program for Fellows and Scholars Alumni Panel, Consortium of Universities for Global Health Meeting, Washington, DC – *Building research and leadership capacity in global health*
- 3 Nov 2017 International Conference on Cancer Control, Hanoi, Vietnam – “Cancer and Nutrition”
- 12-13 Feb 2018 Co-director, Workshop on Mentorship in the University of Zambia (UNZA) SOM PhD Programme, Lusaka, Zambia
- 9-10 Apr 2018 Co-director, Cancer Research in Zambia: Programs, Progress, and Opportunities, UNZA SOM, Lusaka, Zambia
- 11 Apr 2018 Co-director, Curriculum Development for Mentorship in the UNZA SOM PhD Programme, Lusaka, Zambia
- 19-20 Jun 2018 Co-director, University of Zambia (UNZA) Mentorship Workshop, Lusaka, Zambia

- 5-6 Feb 2019 Co-director, UNZA-Vanderbilt Partnership Workshop, *Cardiovascular Disease Research in Zambia - Priorities, Programs and Progress*, Lusaka, Zambia
- 28-30 Jan 2020 Co-director, UNZA-Vanderbilt Partnership Workshop, *UNZA PhD Program Curriculum Development*, Lusaka, Zambia
- 3-5 Feb 2020 Co-director, UNZA-Vanderbilt Partnership Workshop, *Clinical Trials: Study Design, Management, and Resources*, Lusaka, Zambia