

Exploring Cancer

Examining the Role of Biology, Race, Class, and Socioeconomics



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Exploring Cancer

Examining the Role of Biology, Race, Class, and Socioeconomics



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Exploring Cancer

Examining the Role of Biology, Race, Class, and Socioeconomics

Fridays

11:00 - 11:50 AM EST/EDT

August 25

Welcome to Cancer(s) and Health Disparities 101 - The Introduction

October 13

Breast Cancer Health Disparities

November 10

Precision Medicine and Immunotherapy

September 1

Radiation Oncology - What Is It, and What Is It Good For?

October 20

Pancreatic Cancer

November 17

Expanding Cancer Care Quality and Delivery in Sub-Saharan Africa: a collaborative approach

September 8

New Strategies in Treating GI Cancers

October 27

Careers in Cancer

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Exploring Cancer

Examining the Role of Biology, Race, Class, and Socioeconomics

November 17, 2023

Expanding Cancer Care Quality and Delivery in Sub-Saharan Africa: a collaborative approach



Ashley Leak Bryant,
PhD, RN, OCN, FAAN



Benyam Muluneh,
PharmD., BCOP, CPP



Jen Hotchkiss,
RN, MSN, OCN, CNL

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Ashley Leak Bryant,
PhD, RN, OCN, FAAN

Service—and the desire to provide a net public good—is at the core of Dr. Bryant and informs every aspect of her professional work. Over the course of her career, the ways in which she has served has gradually expanded outward from serving at UNC to the broader nursing community on national and international levels. The core of her professional mission is to mentor future generations of nurse and non-nurse clinicians and scientists. As an educator, she is guided by a teaching philosophy that emphasizes collaborative learning and transformational experiences.

Dr. Ashley Leak Bryant joined the UNC School of Nursing (SON) in 2013 and during her time at UNC, she has engaged in global and oncology focused research, teaching, and service opportunities to improve the quality of lives for patients, families, and communities. Her research has two themes: (1) mediating symptom and functional synergies that impact quality of life of adults and older adults with blood cancers through palliative and supportive care interventions; and (2) developing the nursing and cancer careforce through interprofessional education and global capacity building. In August 2021, Dr. Bryant was named an inaugural Assistant Director for Cancer Research Training and Education Coordination where she directs 2 fellowship programs for students at UNC and North Carolina Central University. The fellowships focus on capacity building of oncology nurses and the oncology workforce to increase diversity in cancer clinical trials. Additionally, she developed an inaugural oncology nursing elective course (Summer 2020) across the lifespan and ~130 students have participated in the course and 35% work in pediatric or adult oncology or hospice nursing today. She leads cross-cultural collaborations to build the oncology workforce and strengthen nursing education at both national and international levels. Dr. Bryant has continued to manage an active program of research, mentors undergraduate and graduate students across academic programs, and remains engaged in professional and service activities. Her exceptional work has been recognized by both the American Academy of Nursing and Gerontological Society of America where she is designated as a fellow. She has a BSN (2003) and MSN-Nursing Administration (2005) from UNC-Greensboro, PhD in Nursing from UNC Chapel Hill and Interdisciplinary Certificate in Aging (2011), and completed a post-doctoral fellowship at UNC Chapel Hill Gillings School of Global Public Health (2011-2013).

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Professional Highlights

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Professional Highlights

- 3.** Dr. Bryant is the Senior Associate Dean for Global Initiatives and a Frances Hill Fox Distinguished Professor in the School of Nursing.

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Professional Highlights

- 3.** Dr. Bryant is the Senior Associate Dean for Global Initiatives and a Frances Hill Fox Distinguished Professor in the School of Nursing.
- 2.** She is the Assistant Director of Cancer Research Training Education and Coordination at the UNC Lineberger Comprehensive Care Center.

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Professional Highlights

- 3.** Dr. Bryant is the Senior Associate Dean for Global Initiatives and a Frances Hill Fox Distinguished Professor in the School of Nursing.
- 2.** She is the Assistant Director of Cancer Research Training Education and Coordination at the UNC Lineberger Comprehensive Care Center.
- 1.** She is a practicing nurse caring for older adults with cancer.

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**Benyam Muluneh,
PharmD., BCOP, CPP**

Dr. Benyam Muluneh is an assistant professor at UNC Eshelman School of Pharmacy. His ongoing research endeavors include: 1) Develop strategies to improve medication adherence in clinical practice; 2) Optimize tolerability and safety of chemotherapy in cancer patients; and 3) Promote chemotherapy access and affordability to underinsured and uninsured cancer patients in the United States and beyond. He also teaches in the PharmD curriculum and has a passion for international health. He is the co-director of the UNC-Ethiopia Alliance and serves as a preceptor for one of the Global Pharmacy Scholar (GPS) experiences in Ethiopia.

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Professional Highlights

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Professional Highlights

- 3.** Dr. Benyam Muluneh is an assistant professor at UNC Eshelman School of Pharmacy.

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- 3.** Dr. Benyam Muluneh is an assistant professor at UNC Eshelman School of Pharmacy.
- 2.** He teaches in the PharmD curriculum and has a passion for international health.

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Professional Highlights

3. Dr. Benyam Muluneh is an assistant professor at UNC Eshelman School of Pharmacy.
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**Jen Hotchkiss,
RN, MSN, OCN, CNL**

Jen Hotchkiss is the Nurse Director of Yawkey 9 at Dana-Farber Cancer Institute in Boston, Massachusetts. She serves as an Adjunct Faculty member at the UNC Chapel Hill School of Nursing where she obtained her MSN. The focus of her Adjunct Faculty work is sharing her clinical oncology expertise and international nursing experience with her partners at UNC Project Malawi and Kamuzu Central Hospital to support the growth of oncology nursing in Malawi.

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Professional Highlights

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Professional Highlights

- 3.** Jen Hotchkiss, RN, MSN, OCN, CNL is the Nurse Director of Yawkey 9 at Dana-Farber Cancer Institute in Boston, Massachusetts.

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Professional Highlights

- 3.** Jen Hotchkiss, RN, MSN, OCN, CNL is the Nurse Director of Yawkey 9 at Dana-Farber Cancer Institute in Boston, Massachusetts.
- 2.** She worked as the Oncology Nurse Educator for Dana-Farber Cancer Institute and Partners in Health in Rwanda

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Professional Highlights

- 3.** Jen Hotchkiss, RN, MSN, OCN, CNL is the Nurse Director of Yawkey 9 at Dana-Farber Cancer Institute in Boston, Massachusetts.
- 2.** She worked as the Oncology Nurse Educator for Dana-Farber Cancer Institute and Partners in Health in Rwanda
- 1.** Prior to moving to Boston, worked as a CNIV on 4 Oncology at UNC Medical Center

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Ashley Leak Bryant, PhD, RN, OCN, FAAN

Frances Fox Hill Distinguished Professor, School of Nursing
 Senior Associate Dean for Global Initiatives
 Director, PAHO/WHO Collaborating Center in Quality and Safety for
 Nursing and Midwifery

Assistant Director, Cancer Research Training Education & Coordination
 Lineberger Comprehensive Cancer Center

Jennifer Hotchkiss, MSN, RN, OCN, CNL

Adjunct Faculty
 School of Nursing, University of North Carolina at Chapel Hill

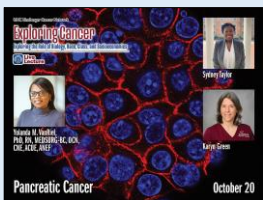
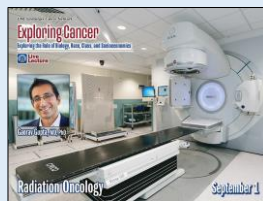
Nurse Director
 Dana-Farber Cancer Institute



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 Global Initiatives



Exploring Cancer 2023



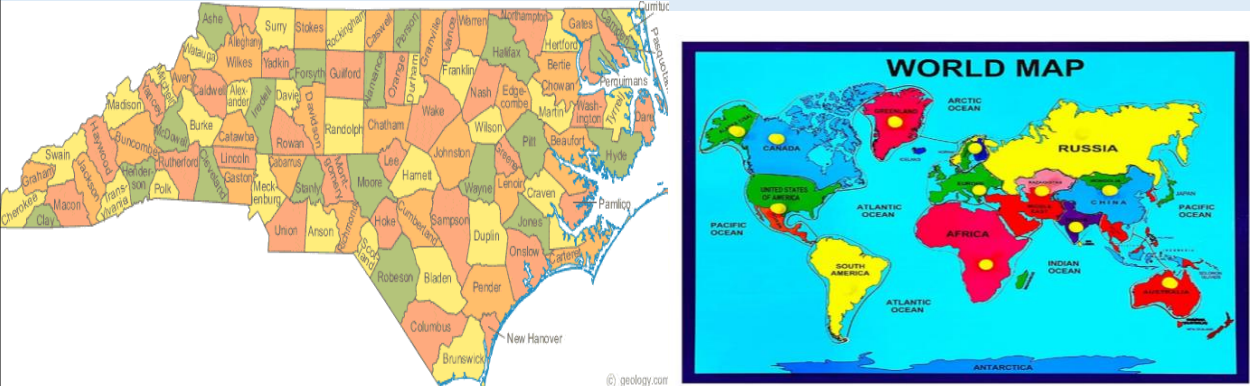
What is Global Health?

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What is global health?



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Global Initiatives

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Cancer in Malawi

- Public health problem
- Malawi, along with other countries in sub-Saharan Africa, has seen an increase in cancer incidence
- Common cancers in Malawi
 - Breast
 - Cervical
 - Esophageal
 - Kaposi sarcoma
 - Lymphoma



The Cancer Atlas, <https://canceratlas.cancer.org/the-burden/sub-saharan-africa/>

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Brief Background and History of the UNC Project in Malawi

- Works in partnership with Malawi Ministry of Health since 1989
- Mission
 - To improve the health of the Malawians by providing service, research, and training
- Initial work validated MoH clinical treatment algorithms for sexually transmitted infections
- Currently works on variety of areas: cancer, HIV, malaria, obstetrics, gynecology, and pediatrics, mental health, general non-communicable diseases and capacity building of local Malawians

Research Focus Areas, <https://globalhealth.unc.edu/malawi/cancerprogram/research-areas/>

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Principles of Collaboration

UNC Project Malawi: To identify innovative, culturally acceptable, and affordable methods to improve the health of the people of Malawi through research, capacity building, and care.

UNC School of Nursing: To build capacity and training of nurses in Malawi through research, education, and practice opportunities in oncology nursing.

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December 2018 Visit

- Malawian delegation visited UNC Lineberger Comprehensive Cancer Center, June 2018
- Need assessment
 - Kamuzu Central Hospital (KCH)
 - Kamuzu College of Nursing (KCN)
 - Malawi Palliative Care
 - Malawi Ministry of Health
- **Build oncology nursing capacity in Malawi**

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December 2018 Assessment

Develop	Short modular basic oncology nursing courses.
Engage	Faculty at Kamuzu College of Nursing and Kamuzu Central Hospital.
Provide	Mentorship to Drs. Chifundo Zimba and Agatha Bula on research proposals and obtain pilot funding.

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Building Capacities



FACULTY



EDUCATION



PRACTICE



RESEARCH

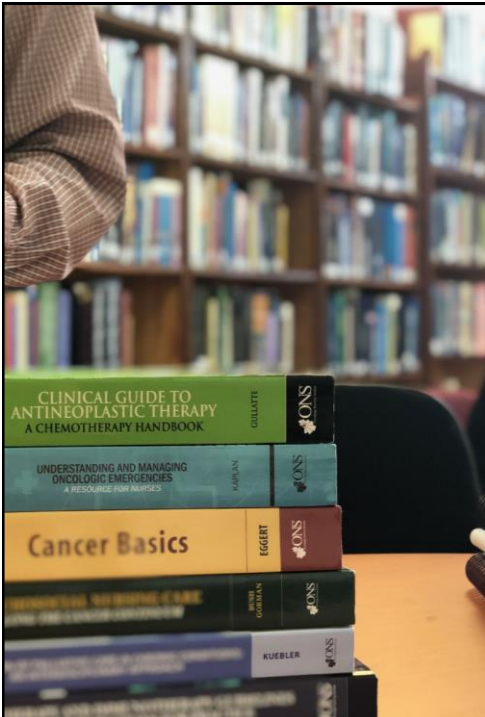
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Education Capacity Building

Drs. Bula and Bryant presented about global cancer care on June 5, 2019 to UNC School of Nursing students



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Education Capacity Building

Virtual cancer education sessions to ~50 nurses including KCN faculty

- Introduction to Cancer, Cancer Treatment, and common cancers in Malawi

Lack of resources for oncology nursing education

- Provided additional oncology nursing books through Oncology Nursing Society and housed at UNC Project library
- Books donated to Kamuzu Central Hospital Oncology Department
- Dropbox repository

KCN will implement BScN in Oncology Nursing (2 years) Oct/Nov 2019

- Build capacity of baccalaureate degree nurses
- Inspire students to consider oncology nursing as a specialty area

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What is the role of the oncology nurse leader in building oncology nursing capacity in Malawi?

Samuel Bingo, BScN, MScN, is an oncology nursing officer at Malawi Ministry of Health Kamuzu Central Hospital in Malawi, Central Africa. Bingo can be reached at josephbingo2@gmail.com, with copy to CJON@onc.org.

As someone who wanted to make others smile, I realized that nursing was the only profession that could help me achieve my purpose. The realization of my love of nursing unfolded when I entered the Kamuzu College of Nursing in 2008. As a nursing student, I wanted to provide excellent nursing care. In my third year of my BScN studies, I had a clinical home-based rotation in Lilongwe, Malawi, where I was introduced to chronically ill patients. I realized that this chronically ill population was the most neglected in Malawi, similar to populations in other sub-Saharan African countries. My exposure to home-based community care redirected my passion to this population. After graduating with my BScN, I worked in a hospital's intensive care unit for two years, where I gained advanced skills and experience in the care of critically ill patients. My interest in oncology nursing began when I cared for a pediatric patient with Burkitt lymphoma who had large masses on the head and died from nasal bleeding. I felt that I did not have the knowledge to care for this patient and felt defeated. From that experience, I desired more knowledge about cancer, which led me to oncology nursing.

In 2016, I enrolled in an MScN program specializing in oncology at the University of the Witwatersrand in Johannesburg, South Africa, and completed 1,000 clinical hours in oncology nursing care. My MScN program was sponsored by the government of Malawi to develop human resources for the national cancer center. I learned concepts of palliative care and how they applied to the care of adults with cancer. My thesis, *Living With Cancer of the Head and Neck: A Qualitative Inquiry Into the Experiences of South African Patients*, focused on how cancer affects important functions of the body, such as breathing and eating, and causes facial disfigurement. While practicing oncology nursing at Charlotte Maxeke Hospital in South Africa, I assessed and counseled a patient with cancer of the larynx who had

uncontrollable pain and was being managed with morphine. I was intrigued to observe that psychotherapy could contribute to pain relief. Generating new knowledge and advancing oncology nursing is an area of interest, and my career goal is to obtain a PhD so I can better understand how to provide evidence-based and quality oncology nursing care in Malawi.

With the opening of the National Cancer Center of Malawi in Lilongwe, opportunities exist for the development and growth of oncology nursing. Being the first to be trained as an oncology nursing officer with an MScN in Malawi, it is essential to develop and implement oncology nursing standards for the national cancer center and impart oncology nursing knowledge and skills to other nurses. One major challenge to providing quality oncology nursing care is the lack of oncology nursing education in BScN programs and post-nursing school graduation. As an oncology nurse leader, my role and responsibilities are to coordinate oncology care, ensure patient and personnel safety, develop policy and guidelines, ensure availability of chemotherapies, compound and administer chemotherapies, and provide psychosocial care to patients. Challenges include working with nurses and physicians with little knowledge of oncology care, their limited knowledge of personal protective equipment, and a shortage of supportive medications and supplies. The chief nursing officer for oncology services and I are grateful for the ongoing support of the University of North Carolina School of Nursing and Lineberger Comprehensive Cancer Center in training and developing evidence-based oncology nursing policies and procedures. We are also appreciative of the Oncology Nursing Society for the generous book donations. I am confident that we will have oncology education and clinical training in Malawian nursing schools, regular in-services about caring for adults with cancer and their caregivers, and intensified cancer awareness in Malawian communities.

RESOURCES

- **Cancer Care**
Offers free, professional support services for individuals with head and neck cancer
<https://bit.ly/2Thy5a>
- **Cancer Research UK**
Teaches practical ways to cope with changes in appearance from cancer and its treatment
<https://bit.ly/52KtBet>
- **Lymphoma Research Foundation**
Provides information about Burkitt lymphoma
<https://bit.ly/59h6Dfg>

KEYWORDS
oncology nursing education; evidence-based nursing; home-based community care
DIGITAL OBJECT IDENTIFIER
10.1188/20.CJON.215

CJON.096.08G

APRIL 2020, VOL. 24, NO. 2 CLINICAL JOURNAL OF ONCOLOGY NURSING 215

Samuel Bingo MScN, BScN Oncology Nurse Leader *Clinical Journal of Oncology Nursing, 2020, 24 (2), 215*

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Journal of Cancer Education 2023;38:1624-1628
<https://doi.org/10.1007/s11887-023-02310-y>



Evaluating the Knowledge Change Before and After Continuing Cancer Education in Malawian Nurses

Jennifer Hotchkiss¹, Agatha Kapatuka Bula^{1,2}, Chifundo Zimba¹, Samuel Bingo³, Mabel Chinkhata⁴, Lixin Song⁵, Ashley Leak Bryant^{1,6}

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Abstract

Malawi has a high cancer incidence and mortality. Efforts to train and educate oncology nurses have been identified as an area of need. This study evaluates the educational needs of oncology nurses in Malawi and the effects of a virtual cancer education program on improving the knowledge of cancer epidemiology, treatment, and nursing care of common cancers among oncology nurses in Malawi. The educational programs consisted of four sessions at one-month intervals focused on Cancer Screening, Survivorship, Radiation Therapy, and Complementary and Alternative Therapies. A pretest–posttest design was used. Overall, there was an increase in knowledge at each session: cancer screening (47% vs 95%), survivorship (22% vs 100%), radiation therapy (66% vs 100%), and complementary and alternative therapies (63% vs 88%). Using virtual continuing education sessions is an effective tool to enhance the knowledge of oncology nurses in Malawi. These education sessions can serve as an example of how other Schools of Nursing and cancer centers in high-resource countries can collaborate with hospitals and Schools of Nursing in low- and middle-resource countries to support the advancement of oncology nursing knowledge, and ultimately, oncologic care.

Keywords Malawi · Nurse · Cancer · Education · Virtual · Knowledge

Introduction

The burden of cancer in Sub-Saharan Africa is increasing, particularly in Malawi [1]. The four most common types of cancer in Malawi are cervical, esophageal, Kaposi sarcoma, and non-Hodgkin lymphoma [2, 3]. The most common treatment for cancer in Malawi is chemotherapy. Often, patients

are diagnosed at an advanced stage due to lack of or limited access to screening [1, 4–6]. Individuals may not be aware of the signs and symptoms of cancer or whom to notify if signs or symptoms of cancer have been found. Therefore, the treatment of cancer is often aggressive, with unpleasant side effects and symptoms such as nausea, vomiting, infection, and gastrointestinal infections [7–9]. Thus, nursing care is critical

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Evaluating Knowledge Change Before and After Continuing Cancer Education in Malawian Nurses

Journal of Cancer Education
2023, 38:1624-1628

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Evaluating Knowledge Change Before and After Continuing Cancer Education in Malawian Nurses

- Goal: Assess the impact of virtual education programs on nursing knowledge of various oncology topics
- Design: Pre-Post Test Design
- Topics:
 - Cancer Screening
 - Survivorship
 - Radiation Therapy
 - Complementary and Alternative Therapy Use in Oncology
- Results: Positive knowledge change in all areas

Hotchkiss, J., Bula, A., Zimba, C., Bingo, S., Chinkhata, M., Song, L., & Bryant, A.L. (2023). Evaluating the Knowledge Change before and after Continuing Cancer Education in Malawian Nurses. *Journal of Cancer Education*, 1-5. doi: 10.1007/s13187-023-02310-y.

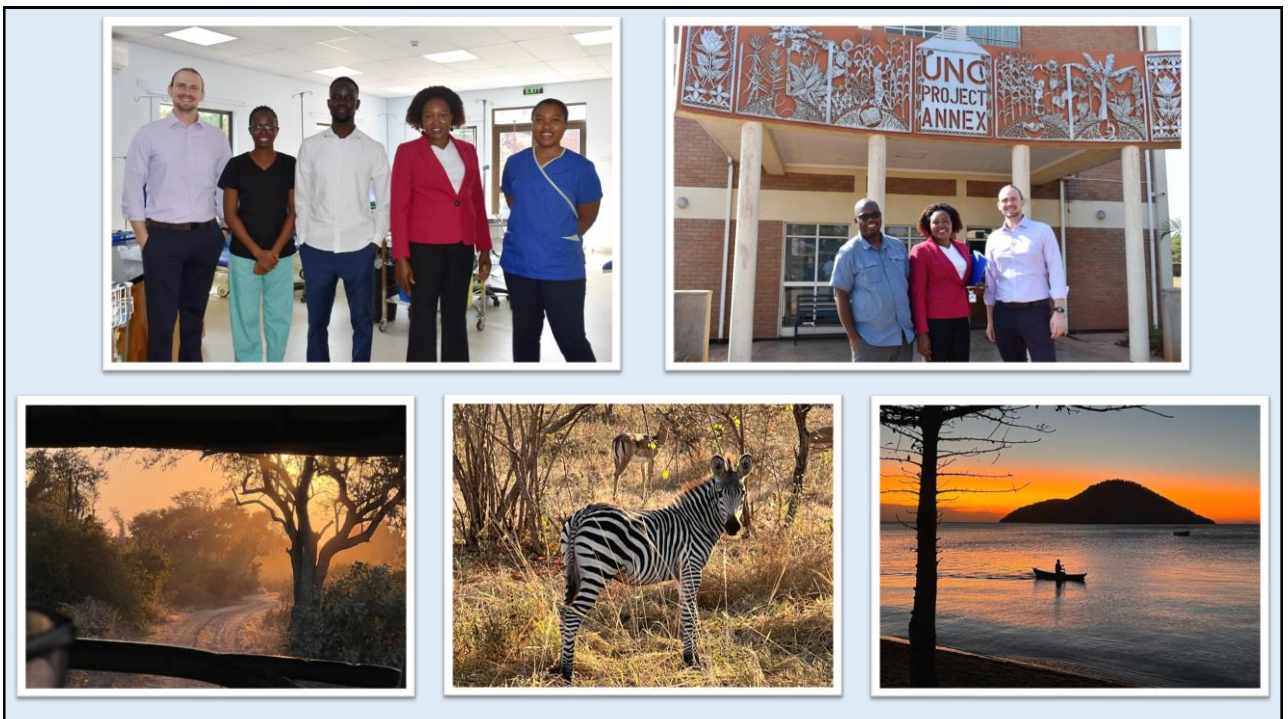
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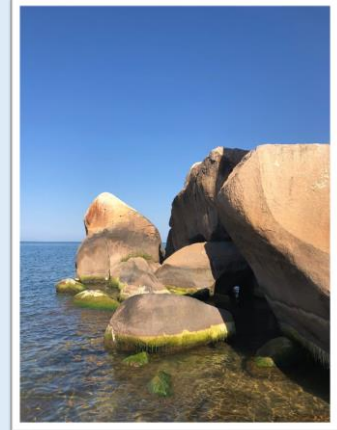
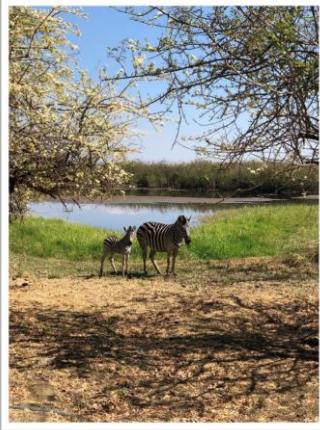


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Thank You



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**ESHELMAN SCHOOL
OF PHARMACY**

Pharmacy Without Borders:
Hematology/Oncology Care in Ethiopia

Benyam Muluneh, PharmD, BCOP, CPP
November 16, 2023

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If you could work/make an impact in any other part of the world (other than than the United States) where would it be?

Nobody has responded yet.
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My Research Goals: Optimize Chemotherapy Use in Clinical Practice

1. Develop strategies to improve medication adherence in clinical practice
2. Optimize tolerability and safety of chemotherapy in cancer patients
3. Promote access to safe and affordable chemotherapy to cancer patients in the United States and beyond

Medication Adherence

Equity

Safety and Quality

Access to Care

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Advancing Medicine for Life

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How to integrate global health into your career...

- Pursue post-graduation fellowship/training in global health
- Perhaps consider an MPH
- Search for full time positions (universities, public health agencies, abroad...)

Straightforward

Less straightforward

- Once you have established your career in a clinical or industry setting, express to your employer of your global health interest
- Identify partners through professional organizations
- Over the long term, work to align your "day job" with your global health interests over time.



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My Path...

Less straightforward

2010: Graduated from Pharmacy School

2012: Started working at UNC Health as a Clinical Pharmacist

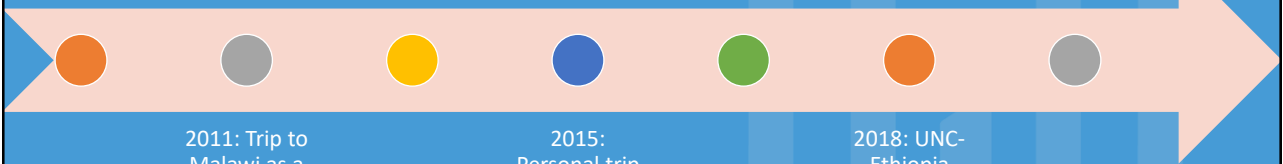
2017: First rotation experience for trainees

2019: Started as a faculty member at UNC School of Pharmacy

2011: Trip to Malawi as a resident

2015: Personal trip to Ethiopia (opportunity to teach)

2018: UNC-Ethiopia alliance formalized



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Global Health Challenges

Pharmacy, Cancer and Beyond

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Global Health Challenges

Pharmacy, Cancer and Beyond

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UNC Ethiopia Alliance

Three Domains

Workforce and Programmatic Development	<ul style="list-style-type: none"> • Capacity building • Program evaluation • Pharmacy/nursing training
Evidence-based Practice	<ul style="list-style-type: none"> • Develop and pilot cancer registry • Promote quality improvement, research and advocacy using data
Medication Safety	<ul style="list-style-type: none"> • Address chemotherapy supply chain challenges • Explore therapeutic drug monitoring program

Equitable Cancer Care for All

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Global Health Evaluation Framework

What about...

DECOLONISING GLOBAL HEALTH EVALUATION FRAMEWORK
Based on Bronfenbrenner's Ecological Systems Theory

MICRO-LEVEL

- Self-determination
- Decolonising Individual Minds
- Individual Sovereignty

MESO-LEVEL

- Re-orient Funders & Reform Funding Mechanisms
- Enabling Legislations & Policies
- Co-option of Knowledge Generation, Production & Mobilisation & Translation
- Sustainable Capacity Exchange
- Co-production of Curricula, Methods & Theoretical frameworks

MACRO-LEVEL

- Emphasise Spiritual, Holistic, Cultural Safety & Liberty
- Adopting Mutually Beneficial Reciprocity
- Collective Self-determination
- Collective Sovereignty
- Decolonising Collective Minds
- Repairing & Regaining Trust Against a Historical Backdrop of Mistrust

EXO-LEVEL

- Prioritise Community Support, Engagement & Consent
- Positionality & Gaze
- Power & Privilege

Pant I, et al. Decolonising global health evaluation: Synthesis from a scoping review. PLOS Glob Public Health. 2022.

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Our Project Team



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Julian Garcia
Student Pharmacist





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Thank You.

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Questions/Comments?

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Series Survey

Please keep a look out for a series survey next week to help us prepare for 2024!

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