
EDUCATION AND TRAINING

- DOCTOR OF PHILOSOPHY (PHD):** PHARMACEUTICAL OUTCOMES AND POLICY Expected in August 2025
University of Florida, Gainesville, FL
- MASTER OF GLOBAL AFFAIRS:** SUSTAINABLE DEVELOPMENT May 2021
University of Notre Dame, Notre Dame, IN
- MASTER OF HEALTH PLANNING AND MANAGEMENT:** HEALTH MANAGEMENT July 2017
University of Maiduguri, Nigeria
- BACHELOR OF PHARMACY:** PHARMACY October 2012
University of Maiduguri, Nigeria

RESEARCH INTEREST

- Pharmacoepidemiology
- Cardiovascular Diseases
- HIV

JOURNAL ARTICLES

- **Ndai A.,** Morris E., Winterstein A., Vouri SM. Evaluating Provider and Pharmacy Discordance in Potential Calcium Channel Blocker – Loop Diuretic Prescribing Cascades. Manuscript submitted for publication.
- **Ndai A.,** Al Bahou J., Morris E., Wang G., Marcum Z., Vouri SM. Classification of Potentially Inappropriate Medications in Older Adults using the Anatomical Therapeutic Chemical System. Manuscript submitted for publication.
- Reise R., **Ndai A.,** Dewar M., Vouri SM. Assessment of the Utilization of Real-Time Prescription Benefits for Patient Cost Savings within an Outpatient Setting. Manuscript submitted for publication.
- **Medugu, A. N.,** Yakubu, J., Medugu, U. N., Marte, H. I., Tata, F. Y., & Balami, V. M. (2020). Phytochemical and Anti-epileptic Studies of Ethanol Extract of *Boswellia dalzielii* (Frankincense Tree) Stem Bark. *European Journal of Medicinal Plants*, 94-100. <https://doi.org/10.9734/ejmp/2020/v3i830262>
- **Medugu, A. N.,** Yakubu, J., Marte, H. I., & Yerima, T. S. (2020). Anti-epileptic potentials of the partitioned fractions of *Chamaecrista mimosoides*. *International Journal of Pharmacology and Toxicology*, 8(1), 89-95 <http://dx.doi.org/10.14419/ijpt.v8i1.30785>
- Yakubu, J., Mamza, U.T., Balami, V. M., **Medugu, A. N.,** Abdulrahman, F. I., Sodipo, O. A. (2020). Antidiabetic effects of partitioned methanol extract of *Boswellia dalzielii* (Frankincense tree) on rats. *J Phytopharmacol*, 9(4), 224-229. http://www.phytopharmajournal.com/Vol9_Issue4_02.pdf Medugu, A. N., Yakubu, J., Balami, V. M., Medugu, U. N., Tata, F. Y., Marte, H. I., & Yerima

CONFERENCE PAPERS

- **Ndai A.,** Evaluating Mobile HIV/AIDS Services for Internally Displaced Persons Living in Camps in Maiduguri: Success or Failure? The 6th Annual Humanitarian Symposium: Sustainability in Humanitarian Settings. Liverpool School of Tropical Medicine. Nov 23, 2016.
- **Ndai A.,** Guo Y., Jiao T., Aroza R., Park H., Shao H., Vouri SM. Cost-Effectiveness of Tenofovir/Lamivudine/Efavirenz Versus Tenofovir/Lamivudine/Dolutegravir for Preventing Mother-to-Child Transmission of HIV in Nigeria. ISPOR 2022 Annual International Meeting. Washington D.C., USA. May 15-18, 2022.
- Aroza R., **Ndai A.,** Alkhuzam K., Shao H., Jiao T. Cost-Effectiveness Analysis of Hemodialysis Vs. Peritoneal Dialysis among Patients with End-Stage Renal Disease. ISPOR 2022 Annual International Meeting. Washington D.C., USA. May 15-18, 2022
- **Ndai A.,** Al Bahou J., Morris E., Wang G., Marcum Z., Vouri SM. Classification of Potentially Inappropriate Medications in Older Adults using the Anatomical Therapeutic Chemical System. American Geriatrics Society Annual Meeting 2022 – Orlando, FL.

- Morris E., **Ndai A.**, Al Bahou J., Wang G., Marcum Z., Vouri SM. An Assessment of Prescribing Cascades of Potentially Inappropriate Medications in Older Adults. American Geriatrics Society Annual Meeting 2022 – Orlando, FL.
- Reise R., **Ndai A.**, Dewar M., Vouri SM. Assessment of the Utilization of Real-Time Prescription Benefits for Patient Cost Savings within an Outpatient Setting. AcademyHealth Annual Research Meeting; 6 June 2022; Washington DC, USA.
- **Ndai A.**, Morris E., Winterstein A., Vouri SM. Evaluating Provider and Pharmacy Discordance in Potential Calcium Channel Blocker – Loop Diuretic Prescribing Cascades. 38th International Society for Pharmacoepidemiology Annual Conference 2022 – Copenhagen, Denmark. August 24-28, 2022.
- **Ndai A.**, Smith S.M., Svensson M.K., Vouri S.M., Reise R. The Role of Anticoagulants Clinics in Anticoagulant Therapy Initiation for Incident Atrial Fibrillation. ISPOR 2023 Annual International Meeting. Boston, MA, USA. May 7-10, 2023

PROFESSIONAL EXPERIENCE

UNIVERSITY OF FLORIDA HEALTH PHYSICIANS PHARMACY SERVICES

GAINESVILLE, FL

Research Assistant

Aug 2021 – Current

- Establish and track key performance indicators to improve quality of patient care in over 45 UF clinics
- Conduct end-of-project evaluation using statistical analysis including interrupted time series and difference-in-difference analysis
- Analyze electronic medical records with SAS and R in order to develop reports
- Use data visualization tools including Power BI, Tableau, R, and Excel Spreadsheet to prepare dashboards of key performance indicators and communicate findings to support decision-making

UNIVERSITY OF NOTRE DAME/HARVARD MEDICAL SCHOOL

NOTRE DAME, IN

Consultant

Jan 2020 – Dec 2020

- Year-long, team-based graduate consultancy for improving surgical care in Vanuatu, Tonga, Fiji and Cooks Island
- Interviewed relevant stakeholders and collected data related to surgical care infrastructure, human resources, finance, and health information systems
- Supported the World Health Organization (WHO) Western Pacific Regional Office in expanding the scope of the Action Framework for Safe and Affordable Surgery to be used by all countries in the region
- Designed diverse communication materials and issued advocacy products including a draft of the National Surgical, Obstetric, and Anesthesia Plan (NSOAP) and its promotional presentations, informational flyers, and dissemination strategy

CHEMONICS INTERNATIONAL - USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM NIGERIA

MAIDUGURI,

Field Logistics Advisor

Aug 2018 – Aug 2019

- Ensured uninterrupted supply of HIV and malaria commodities for 651 health facilities, serving more than 25,000 patients, by coordinating the planning, budgeting, implementation and reporting of all program activities
- Coordinated government officials, international non-profit organizations, and third-party logistics to improve the visibility of the entire supply chain by rolling-out an electronic logistic information system for 651 health facilities
- Liaised with the United Nations humanitarian hub to reestablish supply of health commodities to hard-to-reach areas affected by insecurity

HOWARD UNIVERSITY PHARMACEUTICAL CARE AND CONTINUING EDUCATION

MAIDUGURI, NIGERIA

State Pharmacy Specialist

Nov 2014 – July 2018

- Led a state-wide implementation of comprehensive HIV/AIDS treatment and prevention services in 51 health facilities with over 15,000 people living with HIV/AIDs
- Strengthened pharmacovigilance and rational drug use by establishing and training Drug and Therapeutic Committees in 15 secondary and tertiary health facilities
- Led a state-wide project focused on skill transfer and expertise for pharmacists and other providers at all levels of the healthcare delivery system through participatory program planning, implementation, monitoring, and evaluation

Associate Pharmacy Officer

Dec 2013 – Oct 2014

- Supported the State Pharmacy Specialist by training pharmacists on current HIV guidelines, and strengthening logistics information systems
- Promoted the integration of pharmacy services across all health sectors to ensure the sustainability of HIV/AIDs services

FEATURED PROJECTS

Continuous Quality Improvement (CQI) Projects in UF Health Physicians Clinics:

- Develops dashboards using SAS and Power BI that track:
 - COVID-19 and flu vaccination rates as well as vaccines administered in clinics with over 130,000 patients
 - anticoagulation rate and factors associated with anticoagulation among 7,212 atrial fibrillation patients
 - retinopathy screening rate in over 10,160 diabetic patients in 45 clinics
 - medication use among hemophilia patients in the emergency department with the aim of ensuring rational use of medication among hemophilia patients

Antiretroviral Therapy (ART) Mobile Clinic:

- Initiated an ART mobile clinic to improve retention rates among HIV-infected patients displaced by the Boko Haram crisis and coordinated 20 internally displaced persons camps for the seamless implementation of policy directives
- From its inception in October 2015 to December 2017, the ART mobile team screened 26,862 persons, of which 851 were diagnosed as HIV-positive and initiated on treatment. Among the displaced HIV-infected patients already on treatment, 1,215 were tracked and restarted on life-saving antiretroviral

Continuous Quality Improvement (CQI) Projects in Nigeria:

- Coordinated a continuous quality improvement process in 51 health facilities using USAID Site Improvement through Monitoring System (SIMS)
- Provided technical assistance to develop a remediation plan for the gaps identified which ensured all 51 sites passed the assessments

VOLUNTEER EXPERIENCE

St. Joseph County Department of Health COVID-19 Vaccination Site Volunteer

South Bend, IN
Jan 2021 – Jul 2021

- Monitor and observe vaccinated clients during the observation period
- Effectively use electronic record system to schedule clients for the next appointment
- Record and report any observed adverse events using the FDA Adverse Event Reporting System (FAERS)

COVID-19 Response Volunteer

May 2020 – Aug 2020

- Supported the logistics management of personal protective equipment (PPE) and analyzed consumption trends.
- Forecasted and costed the PPE need of St. Joseph County to inform emergency preparedness
- Developed database of all facilities requiring PPEs in St. Joseph County including addresses, name and contact of focal persons.

PROFESSIONAL CERTIFICATES

- Policy Analysis using Interrupted Time Series, University of British Columbia, CA Aug 2021
- Supply Chain Design, Massachusetts Institute of Technology, USA Jun 2019
- Supply Chain Fundamentals, Massachusetts Institute of Technology, USA Apr 2019
- Supply Chain Analytics, Massachusetts Institute of Technology, USA Dec 2018
- Clinical Management of HIV, University of Washington, USA Mar 2017
- Health in Humanitarian Crises, London School of Hygiene & Tropical Medicine, UK Mar 2017
- Fundamentals of Implementation Science, University of Washington, USA Dec 2016
- Economic Evaluation in Global Health, University of Washington, USA Aug 2015
- Leadership and Management in Health, University of Washington, USA Mar 2015

AWARDS AND HONORS

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| • Riberas Orjales Family Fellowship | Aug 2020 |
| • Donald & Marilyn Keough Fellowship | Aug 2019 |
| • McKenna Center for Human Development and Global Business Fellowship | Sep 2019 |
| • Pharmacists Council of Nigeria Award for Best Graduating Pharmacy Student | Nov 2012 |
| • Dean's Award for Best Graduating Pharmacy Student | Apr 2016 |
| • J. D. Amin Award for Best Graduating Pharmacy Student | Apr 2016 |