IGIVEREADER

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THE ARNOLD & MARIE SCHWARTZ COLLEGE OF PHARMACY AND HEALTH SCIENCES

LONG ISLAND UNIVERSTIY

HONDURAS & NIGERIA

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LOVE.
GIVE.

FEATURED STUDENTS:

JAMIE WONG

JUNGYOON CHOI

THERESA NNOLI

LIU Pharmacy

NIGERIA 2022

SEPTEMBER 15TH - OCTOBER 4TH

LIU Pharmacy

PHARMACY CLASS OF 2023

THERESA NNOLI

Hello! I'm Theresa Nnoli and I am a current P6 student who just completed LIU's first APPE rotation in Nigeria!

FEDERAL MEDICAL CENTER (FMC)

FMC Owerri is a government hospital located in the capital of Imo State, the largest state in Igbo land in Nigeria. It was first founded in 1903 as a colonial dispensary. It was promoted to a District Hospital, then a General hospital before eventually becoming a federal medical center in 1995. They are currently a 700-bed facility and is committed to helping the people of Owerri, Nigeria. There are 22 FMCs in Nigeria, most located in states where the health institution provided by the state government is insufficient to meet the needs of the people. I was able to work with the pharmacy team for a total of 11 days and rotated through several different units.

HERO ITINERARY

Day 1-3	Arrival
Day 4	Meet & greet with hospital admin
Day 5-6	EPU (Emergency Pediatric Unit)
Day 7	UDDS (Unit-dose dispensing system)
Day 8	HIV Clinic (Heart to Heart)
Day 9	UDDS
Day 10	ENT (Eye-Nose-Throat unit)
Day 11	GOPC (General outpatient pharmacy clinic)
Day 12	Patient case presentation

PHARMACY IN NIGERIA

Pharmacy education in Nigeria has undergone tremendous changes in the last four decades. It is currently regulated by both the Ministries of Education and Health. The National Agency for Food and Drug Administration and Control (NAFDAC) is a federal agency under the Federal ministry of health, responsible for regulating the manufacture, importation, exportation, and distribution of drugs in the country. The National Drug Law Enforcement Agency (NDLEA) is under the Federal Ministry of Justice, overseeing drug policy and control in Nigeria. Nigerian universities must be accredited for pharmacy programs by the NUC (an agency in the Federal Ministry of Education, FME). The pharmacist Council of Nigeria (PCN) is responsible for setting the curriculum and ensuring it meets the minimum benchmark requirements.

It is inevitable that pharmacists must be able to render pharmaceutical care in practice. It is mandated for universities accredited for pharmacology to create a Department of Clinical Pharmacy for their students. The scope of clinical pharmacy includes drug information, drug utilization, drug evaluation and selection, medication therapy management, and disease state management. However, out of the 13 approved school of pharmacy, only two correlates Biopharmaceutics with a clinical pharmacy. PCN and NUC have also designated the number of hours allocated to the teaching of theory and practicals per week for students to acquire the necessary skills and attitudes in pharmaceutical care.

While the Pharmaceutical Society of Nigeria (PSN) is encouraging all schools of pharmacy to switch over from BPharm to PharmD, most pharmacists are still BPharm. After completing the 4-year bachelor's program, they obtain an intern license and work for one year before becoming a fully licensed pharmacist. Most of the pharmacists I worked with were still interns due to a lack of funds to pay for experienced pharmacists.

I've been looking forward to doing something like this for years! I left the US on the 8th & landed in Nigeria on the 9th. There are public holiday's or "sit-at-home" on Monday's in this area of the country so my week normally started on Tuesday's. During this time of the year, Nigeria is in it's rainy season. Be prepared for heavy rains, possible floods & traffic!

UNFORGETTABLE MEMORIES

EPU Unit

Emergency Pediatric Unit

Medical childhood morbidity and mortality in developing countries are high. Many children suffer from infectious and vaccine-preventable diseases - all that can be prevented with available health interventions and technology.

Meeting the interns & pharmacists

Anyone can open and run a pharmacy in Nigeria regardless if they have a pharmaceutic degree. Neither pharmacy residency nor fellowship opportunities are provided. Pharmacists also do not get the respect they deserve. There is also a lack of interprofessional collaboration.

Heart to Heart : HIV Clinic

Heart-to-heart center services are available in every region of the country. They offer services based on the knowledge, psychological, and medical needs of their patients, offering services based on counseling, testing, and treatment to HIV/AIDS patients.

HOLISTIC MEDICINE

Herbal medicines, also known as botanical medicines or phytomedicines, are often used along with modern biomedicine in today's world. It is a source of primary health care for up to 80% of people in developing countries, according to World Health Organization (WHO). It is the most affordable and easily accessible means of healthcare. Herbal remedies are especially common in Nigeria and parts of West Africa. African traditional medicine is a form of holistic health care system organized into divination, spiritualism, and herbalism. Nigeria is currently conducting research on ways to incorporate plants with therapeutic properties into therapy.

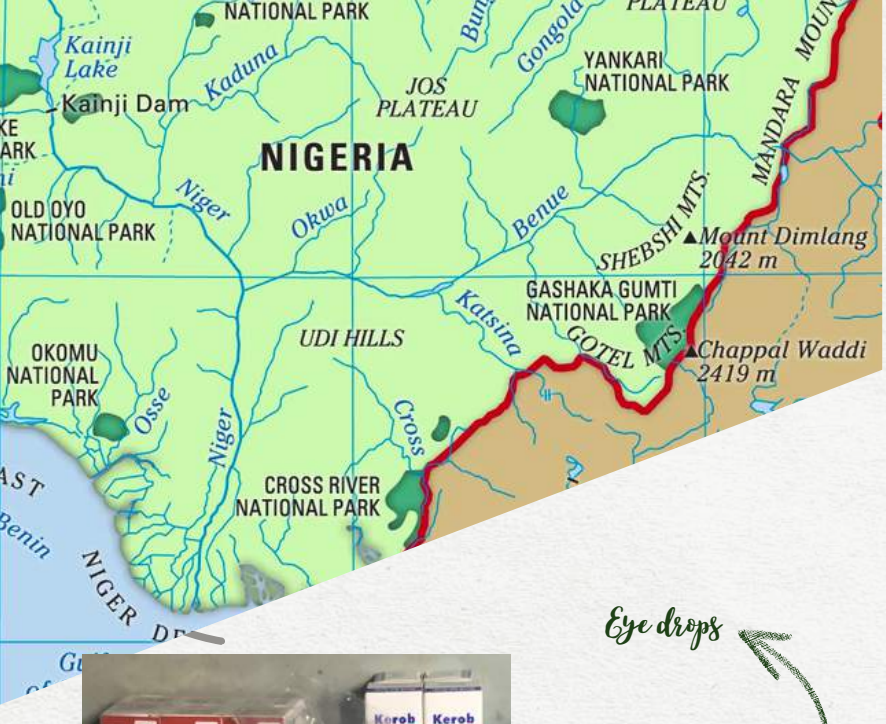
Traditional medicine is viewed as a combination of knowledge passed down from generation to generation and practice used in diagnosing, preventing, and eliminating the disease. A traditional healer is one who specializes in the medicinal properties of indigenous plants and has a thorough knowledge of the pharmaceutical steps to turning them into drugs. For instance, *Vernonia amygdalin* (also known as bitter leaf) is masticated to help lower blood sugar levels (typically eaten after a high-carb meal). *Rauwolfia vomitoria* are used for treating hypertension, stroke, insomnia, and convulsion.

LAIDER INTERNATIONAL WEST AFRICA LTD.

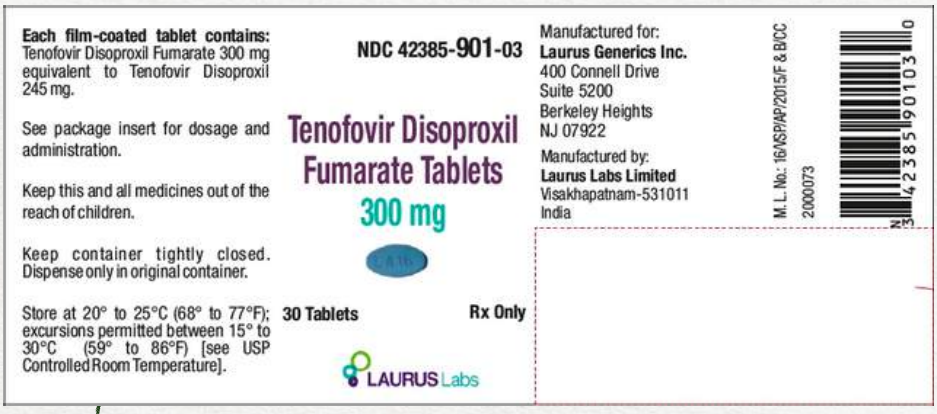
Laider International W.A. LTD. is a Nigerian pharmaceutical company founded in 1995. Laider supplies pharmaceutical products to Federal Medical Centres, States Central Medical Stores, National Orthopaedic Hospitals, Private Hospitals, and reputable Pharmacies across Nigeria- distributors, wholesalers, and retailers.

Their representative gave a clinical presentation on their two drugs:

1. Orphesic (acetaminophen 450 mg & orphenadrine 35 mg): used for the treatment, control, prevention & improvement of acute painful musculoskeletal conditions, headache, joint pain, ear pain, fever, periods pain, cold, toothache, and flu.
2. Orphetab (orphenadrine 100mg): used to treat muscle pain from musculoskeletal conditions.



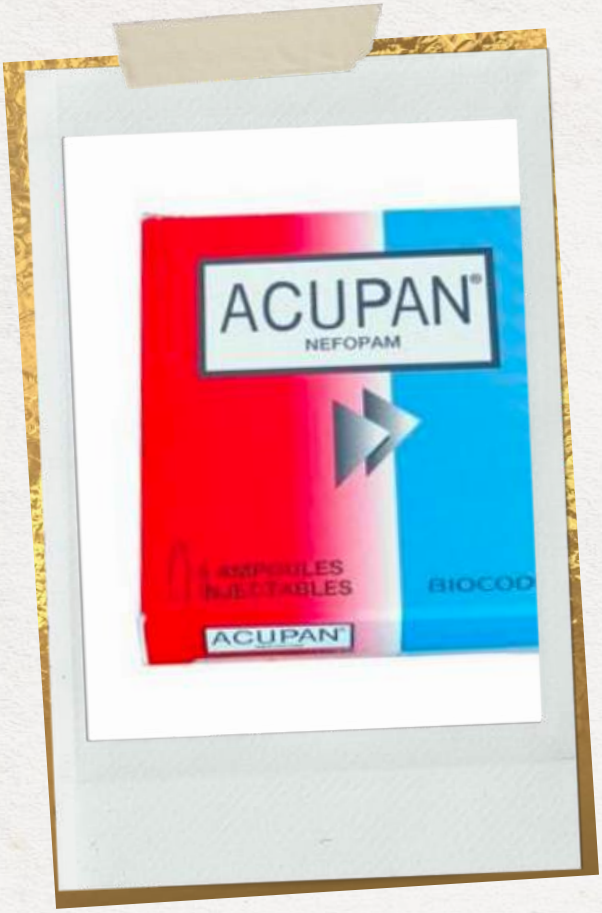
Eye drops



First-line treatment for HIV in adults + Pediatrics over 30 kg

perennial/seasonal Allegic rhinitis

Sinus inflammation after surgery



hyperlipidemia

vasodilator

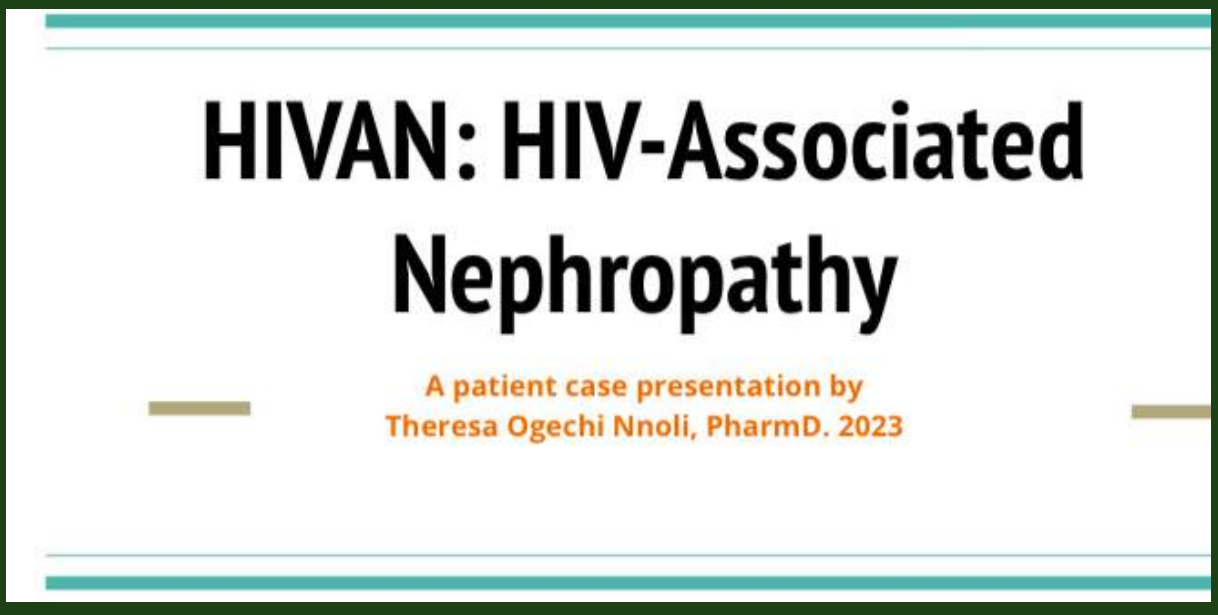
NSAIDS

antimalarials

MY SPECIAL PROJECT

PATIENT CASE PRESENTATION

My special project for this APPE rotation was a patient case presentation from the Heart to Heart clinic. It involves a prescribing “error” for a pediatric patient with HIVAN (HIV-associated nephropathy) & ESRD.



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JOIN US ON PRESENCE!

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