

# AYANWALE ABDULAH, MD, MPH

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## **OBJECTIVE STATEMENT**

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I am a determined and highly motivated physician-scientist with a special interest in microfluidic/lab on chip/ Point of care diagnostic device to improve and advance the level of medical for undeserved community.

## **EDUCATION**

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**Doctor of Philosophy - Interdisciplinary Health Sciences** Spring 2027  
University of Texas at El Paso (UTEP)

**Dissertation:** "Development and Validation of a Multiplex Microfluidic Molecular Diagnostic Platform for Rapid Detection of High-Priority Pathogens and Antimicrobial Resistance Genes"

**Certificate of Entrepreneurial Education- Mike Loyal Centre** Spring 2025  
University of Texas at El Paso (UTEP)

**Master of Public Health** Graduated: December 2021  
University of Texas at El Paso (UTEP) GPA: 4.00/4.00  
**Thesis:** "Examination of the association between c - reactive protein (CRP) and COVID-19 infection severity and length of hospitalization"

**Bachelor of Medicine, Bachelor of Surgery (MB:BS)** Graduated: September 2015  
University of Lagos, Lagos, Nigeria  
**Thesis:** "Lifestyle factors that affect Pregnant women during antenatal clinic visit in Gbagada, General Hospital, Lagos"

**Certificate in Computer Appreciation** Graduated: September 2004  
Point Technologies, Lagos, Nigeria

## **AWARDS/HONORS**

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**Sandy Tyler Endowed Fellowship** Awarded: July 2021  
University of Texas at El Paso,  
Texas, USA

**HACK-915 Start up Competition** Awarded: November 2019  
University of Texas at El Paso,  
Texas, USA

**Merit Award, Best staff in the Outpatient Department** Awarded: December 2017  
General Hospital Shomolu, Lagos, Nigeria

**Endowment Scholarship Recipient** Awarded: September 2009  
University of Lagos, Lagos, Nigeria

## **CONFERENCE, SEMINAR AND POSTER PRESENTATION**

### ***Annual Meeting of Environmental Health Information Partnership (EnHIP), NIH - National Library of Medicine***

- Location: The El Paso Natural Gas Conference Centre, University of Texas at El Paso (UTEP).
- Date: April 18 -19, 2024.
- Description: Attended the annual meeting, providing opportunities to engage with experts in environmental health research and establish connections with potential collaborators.

### ***Viva La Salud Conference***

- Location: College of Health Sciences, University of Texas at El Paso
- Date: September 2024 (Tentative).
- Description: my abstract titled “*Age-Related Factor Associated with Hospitalization Among People Exposed to Coccidioidomycosis in El Paso County, Texas*” was accepted for presentation.

## **PEER REVIEW ACTIVITIES**

Social Behavioural Health, UTEP, 2019.

Biostatics, UTEP, 2019 -2024.

Environmental Health, UTEP, 2020.

AIMS Public Health (2024 till present)

Bachelor of Science Student in Public Health Poster Presentation (2024 till present)

## **PUBLISHED ARTICLES**

**Ayanwale AA, Concha JB.** Examination of the association between c - reactive protein (CRP) and COVID-19 infection severity and length of hospitalization. ProQuest. 2021-12-09. ID: 13679

## **RESEARCH FOR PUBLICATIONS**

Jacqueline IG, Isaac AR, **Ayanwale AA.** Review of Type 2 Diabetes Management Interventions for Obese Hispanic Youth. December 2019.

**Ayanwale AA.** Lifestyle factors that affect pregnant women during antenatal clinic visit in Gbagada general hospital. September 2014.

## **PRACTICUM/RELATED EXPERIENCE**

### ***PhD. Research Assistant***

January 2024 – May 2024

University of Texas at El Paso, Texas

- Performed Quantitative data analysis using STATA, SPSS on vaccine hesitancy among Texas residents.
- Performed Qualitative data analysis using Thematic Analysis on vaccine hesitancy among Texas residents.
- Prepared report for the vaccine hesitancy project.
- Attended review meetings as at when necessary.

***Graduate Teaching Assistant***

University of Texas at El-Paso, Texas

September 2019 – December 2023

- Teaching undergraduate courses of about 35 students on a weekly basis.
- Grading assignment of about 35 students on weekly basis.
- Assist in teaching a group of 35 students in class once a week.
- Hold officer hours once a week to help students with assignments.
- Serves as mentor to undergraduate students.

***Medical Doctor, Infectious Disease***

Outpost Health, Lagos, Nigeria

September 2022 – till Date

- Virtual consultation on common infectious diseases.
- Sexual Reproductive Health counselling.
- Occupational health safety consultation

***Junior Resident II, Orthopaedic and Trauma***

National Orthopaedic Hospital, Yaba, Lagos

April – June 2022

- Assisted in corrective osteotomy surgeries.
- Assisted in wound debridement and external fixation.
- Assisted in implants removal and Taylor Spatial Frame (TSF).
- Observed Illizarov,
- Managed about 50 trauma and orthopaedic cases in clinic for a week.
- Resuscitated and managed trauma cases in the emergency room
- Presented in clinical conference and daily trauma meeting.
- Participated in journal article review.

***Graduate Research Assistant (Practicum)***

School of Nursing, University of Texas at El-Paso

June – August 2021

- Conducted a Literature review to gather and finalize all the survey instruments regarding the reproductive and sexual health (RSH) of men along the US-Mexico border.
- Combined, updated, and prepared the materials for Institution Review Board (IRB) documentation required for the study.
- Developed a factsheet on the reproductive and sexual health needs of Mexican American Men (Prostate cancer).

***Contact Tracer Investigator and Contact Tracer, COVID-19***

University of Texas at El Paso

July - August 2020

- Called to about 10 people per shift to isolate, follow preventive measures.
- Involved in training, meeting to improve contact with the people.

***Graduate Research Assistant***

University of Texas at El Paso

March -June 2020

- Measured 15 locations suspected to be contaminated with lead level to mitigate the soil.
- Involved in meetings, trainings on the level lead in the community to aid field work.

### ***Medical Officer***

Lagos University Teaching Hospital (LUTH)

August 2018 - June 2019

- Stabilized about 10 patients per shift in the surgical emergency department.
- sutured minor injuries, blood sample collections, incision and drainage, chest tube insertion, biopsy samples collection.
- Engaged other specialities in surgery to help with definitive management of patients.

### ***Medical Officer***

St. Antonio Memorial Hospital

May 2018 - July 2018

- Take history, examine, investigate, and manage about 5 patients daily.
- Manage paediatrics, obstetric and gynaecological, surgical, and medical cases.
- Learn hands on ultrasonography scan of the abdominopelvic region.

### ***Medical Doctor (National Youth Service Corps)***

General Hospital, Somolu,

June 2017- April 2018

- Managed about 20 medical, surgical, paediatrics and gynaecological cases daily.
- Posted to the HIV/AIDS and Tuberculosis clinics to manage about 50 of these conditions on outpatient and inpatient bases weekly.

### ***Medical House officer***

Federal Medical Centre, Katsina, Nigeria

June 2016 - June 2017

- Rotated through the medical, surgical, obstetric and gynaecological and paediatrics departments under supervision to manage about 30 cases daily.
- Assisted surgical procedure like herniorrhaphy, explorative laparotomy, caesarean section, chest tube insertion, lumpectomy, myomectomy.
- Assisted in the mother to Child Transmission of HIV clinic in case management, exchange blood transfusion in jaundice baby.

## **LABORATORY EXPERIENCE**

### ***Pharmacology***

- Analysed and monitored dose-response relationship of different common drugs.
- Pharmacodynamic and Pharmacokinetic of various drugs were observed.

### ***Haematology and Oncology***

- Carried out complete blood count and differentials, coagulopathies, and blood cell morphology.
- Performed blood groupings, genotypes, and red blood cell haemolysis testing.
- Performed specialised blood testing for cancer/tumour marker like leukaemia, lymphoma, multiple myeloma, and others.

### ***Clinical Pathology***

- Performed chemical blood analysis for different elements like sodium, potassium, arterial blood analysis etc.
- Carried out screening, monitoring, and diagnosing different infectious diseases.

### ***Microbiology and Immunology***

- Performed various blood culture testing in identifying infectious diseases.
- Carried out specimen collection, preanalytical, staining techniques and serology.
- Observed and read slides of different viral, bacteria, fungi, parasite, helminth, and protozoa organisms.

### ***Community/Public Health***

- Performed and calculated sensitivity, specificity, central tendency, measure of central dispersion, and predictive values.
- Observed and read various slides of reportable, communicable, emerging, sexually transmitted diseases.

### ***Molecular Biology/Morbid Anatomy***

- Performed, assisted, and observed various dissection sections in identifying causes of death.
- Prepared and read histology slides of organs, tissues, and cells for different pathology.

### ***Physiology***

- Performed and observed the response of different tissues, cells, and organs to chemical or hormonal stimulation.
- Performed spirometry for lung function testing, cardiovascular testing using sphygmomanometer.

### ***Anatomy***

- Performed the dissection of organs, tissues to identify different human anatomical body parts.
- Read prepared histology slides of organs, tissues, and cells of different human body parts.

## **OTHER RELATED EXPERIENCE**

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### ***Assistant Head at the Ebola Alert Call Centre***

EpidAlert

Lagos, Nigeria

July 2014 - August 2014

- Worked as assistant head of the Ebola call centre during the outbreak to help disseminate the right information to the country.
- Called 20 people per shift about the following preventive guidelines.
- Involved in trainings, meetings to improve on the job.

### ***Facilitator, Muslim Medical Student Health Training***

University of Lagos, Lagos, Nigeria

Lagos, Nigeria

October 2013

- Help to train about 100 junior medical students on basic skills like, blood pressure measurement, anthropometry measurement, blood sugar rapid kit test.

### ***Facilitator, Blood donation Exercise***

Lagos University Teaching Hospital, Lagos, Nigeria

Lagos, Nigeria

August 2012 - May 2014

- Helped in organising the blood donation drive in-conjunction with the hospital to

- help needy patients and is done yearly.
- Collected blood samples from donors.
- Helped generate funds for the blood donation drive.

## **LEADERSHIP/VOLUNTEER**

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### ***COVID-19 Vaccination Clinic Volunteer***

The University of Texas El Paso

January – May 2021

- Directed about 1000 vaccinated individuals to the observation area daily.
- Filled the vaccination cards for the vaccinated individuals.
- Scanned about 1000 IDs of individuals and confirm their appointment for vaccination.

### ***General Secretary, Africa Students Organisation***

The University of Texas at El Paso

2020- 2021

- Write, keep, and record the minutes of meeting of the association.
- Updated and disseminated valuable information to the students.

### ***Member, Association of Medical Students***

October 2012 - June 2014

University of Lagos, Lagos, Nigeria

- Organised tutorial and mentorship to junior medical students.
- Involved in coordinating symposium to train students on the future ahead.

### ***Member, College of Medicine, and Pharmaceutical Sciences Student Association***

October 2012 - May 2014

University of Lagos, Lagos, Nigeria

- Coached medical and paramedical students on different difficult subjects.
- Organised yearly symposium to enlighten students about life in medical school.

### ***Deputy Register, College of Medicine and Pharmaceutical Sciences Student Association***

University of Lagos, Lagos, Nigeria

March 2013 - May 2014

- Organise meetings among student union executives to discuss student's welfare.
- Prepared, recorded, and wrote minute of meetings.
- Communicate the outcomes of meeting to the school authority on the progress of the association.

### ***General Secretary, Muslim Students' Society of Nigeria***

August 2013 – July 2014

College of Medicine, University of Lagos, Lagos, Nigeria

- Organised meetings among executives and students to discuss important issues.
- Presented the yearly secretariat report during the annual general meeting for leadership transition.

## **SKILLS/INTEREST**

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Certified to use Laser Machine for printing chips to make diagnostic kit.

Trained on the use of spectrometry machine.

Geospatial Information System (GIS) Certified, 2021.

Certificate of Achievement in HHS information security/Cybersecurity Training certified by Texas Health and Human Service, 2020.

Certificate of Achievement in HIPPA certified by Texas Health and Human Service, 2020.

JOHN HOPKINS COVID-19 Contact Tracing, Certified 2020.

Making Contact: A training for COVID-19 contact tracers, Certified 2020.

MS Office 365 Certified, 2020.

Skills in Health Policy Proposal

Skills in Grant Writing Proposal

Basic social behaviours and human subject researchers Certified, 2020.

SPSS and R Data Analysis Certified, 2019.

Communication and research involvement.

CPR Certified, 2018.

Neonatal Resuscitation Certified, 2017.

Biomedical laboratory experiences.

Effective and efficient use of MS Word, Power Point and Excel.