

MARK ADDY

MEDICAL LABORATORY SCIENTIST

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PROFESSIONAL SUMMARY

An ASCP-certified and DHA-eligible MLT/CLS with eight years of experience in laboratory operations, seeking an opportunity to provide high-quality, accurate, and timely diagnostic testing services and research. Proficient in Immunohematology, Blood Banking, Clinical Chemistry, Microbiology, Phlebotomy, Histotechnology, Cytotechnology, calibration, troubleshooting, and machine maintenance. Strong team player and independent worker, ensuring efficient laboratory operations. Emphasizing Quality Assurance measures to guarantee reliable laboratory results for patient care and clinical research worldwide.

WORK EXPERIENCE

Medical Laboratory Technologist | *Tamale Teaching Hospital* | Ghana

January 2021 – January 2025

Duties and responsibilities include:

- Conducted phlebotomy to obtain blood samples (from neonates to geriatrics) for biomedical analyses.
- Took of nasopharyngeal swab samples for Covid – 19 testing
- Ran daily hematological and chemistry controls, and calibrate equipment for result accuracy.
- Performed Iontophoresis for diagnosing Cystic Fibrosis.
- Handled biospecimen sample reception and accession to maintain integrity.
- Ran Chemistry tests (LFT, Cardiac enzymes, RFT, OGTT) for hepatic and renal disorders, Diabetes diagnosis, etc.
- Managed laboratory reagents and consumables stock levels.
- Maintained analyzers for optimal performance.
- Performed microscopy for malaria parasite identification and speciation, and diagnosis of Gonorrhea, Bacterial Vaginosis, etc.
- Performed culture and sensitivity testing for bacteria identification and treatment.
- Prepared culture and sensitivity media.
- Screened donor blood using ELISA, Serology, and Western Blot for HIV (1,2) confirmation.

- Conducted viral load tests to monitor HIV and Hepatitis treatment.
- Prepared blood cell components (e.g., Packed Red Blood Cells, Fresh Frozen Plasma).
- Analyzed CSF for meningitis and encephalitis diagnosis.
- Performed antibody panel testing for unusual antibody detection before transfusion.
- Conducted Kleihauer – Betke tests to determine fetomaternal hemorrhage and Rhogam dosage.
- Tested biospecimens for tumor markers like CEA, and PSA for tumor diagnosis or monitoring.
- Conducted haemoglobin electrophoresis using the cellulose acetate paper technique.
- Used High-Performance Liquid Chromatography to quantify haemoglobin detected by electrophoresis.
- Performed grouping and crossmatching to ensure safe blood components for patients.
- Conducted urine and stool routine examinations.
- Performed coagulation studies to diagnose Haemophilia, DIC, etc., and monitor treatment.
- Analyzed blood films to diagnose Thalassemia, Leukemia, etc.
- Taught and organized viva for interns.
- Entered, stored and retrieved data on LHIMS software
- Validated and dispatched results.

Laboratory Scientist | *Condiment Micronutrient Innovation Project (CoMIT), University of Ghana* | Ghana

October 2020 – March 2024

Duties and responsibilities include:

- Drew venous blood samples from children (2-5 years) and women of reproductive age for analysis of Zinc, Retinol, Folate, and Vitamin B12.
- Analyzed Haemoglobin, C-Reactive Proteins (CRP), and Zinc Protoporphyrin (ZPP) for assessing anemia, inflammation, and lead exposure.
- Processed blood samples under strict research conditions, utilizing Zinc boxes, aluminum foil, and dim lighting.
- Ran analyzer controls before commencing daily work to ensure accuracy.
- Prepared Blood Serum Spot samples for storage and micronutrient testing.
- Administered encapsulated Retinol isotopes to participants to measure their bodies'

retinol storage using the Retinol Isotope Dilution technique.

- Aliquoted breastmilk, urine, and stool samples for micronutrient testing.
- Performed Urine Pregnancy Testing to determine participants' eligibility.
- Collected and stored capillary blood samples using Mitra Cartridges for prototype analyzer calibration.
- Prepared Ascorbic acid for storing whole blood folate samples, and other solutions.
- Entered data manually and electronically using barcode readers, Excel, and Survey CTO.
- Ensured samples are maintained between 39.2°F to 46.4°F while in the field.
- Mapped samples in storage freezer for easy identification.
- Safeguarded cold chain during sample transport from field to storage freezer to ensure sample integrity.
- Conducted data analysis using Excel and SPSS.

Medical Laboratory Technologist | *Danpong Medical Centre* | Ghana

October 2017 – September 2020

Duties and responsibilities include:

- Performed venesection to obtain blood samples for analysis.
- Conducted microscopy for Malaria, Tuberculosis, Bacterial Vaginosis, Gonorrhoea diagnosis, and treatment monitoring.
- Carried out biomedical analysis using analyzers.
- Performed biomedical tests using ELISA.
- Conducted blood grouping and crossmatching for safe blood components.
- Determined haemoglobin type using the Cellulose Acetate Electrophoresis Method.
- Performed Glucose-6-Phosphate Deficiency Testing.
- Conducted urine and stool routine examinations.
- Isolated bacteria and provide information on susceptible antibiotics through culture and sensitivity testing.
- Prepared various culture and sensitivity media.
- Performed Erythrocyte Sedimentation Rate and CRP tests to determine inflammation and cardiovascular risk.
- Analyzed semen for male infertility diagnosis and vasectomy efficacy.

- Validated and dispatched results.

Medical Laboratory Scientist | *Hohoe Municipal Hospital* | Ghana

September 2015 – September 2017

Duties and responsibilities include:

- Conducted Phlebotomy to obtain blood samples for biomedical analysis.
- Performed malaria parasite microscopy (Identification, speciation, and quantification).
- Carried out biomedical analysis using Sysmex, Erba, Ichroma, etc.
- Performed sputum analysis for tuberculosis diagnosis and treatment monitoring using Gene Xpert and microscopy.
- Performed ABO and Rhesus blood grouping and crossmatching for safe transfusion
- Prepared blood components, particularly packed cells and fresh frozen plasma.
- Performed urine and stool routine examinations.
- Ensured sample reception and processing, maintaining sample integrity for specific investigations.
- Maintained appropriate stock levels of laboratory reagents and consumables.
- Screened prospective blood donors for eligibility.
- Conducted Widal tests and sickling tests for typhoid fever and sickle cell diagnosis.
- Conducted Routine Liver Function Test, Renal Function Test, Lipid Profile, Cardiac Enzymes, and Blood Glucose Testing using Chemistry Analyzers and Glucometers.
- Taught and organized viva for interns.
- Performed Erythrocyte Sedimentation Rate for inflammation determination.

Medical Laboratory Scientist | *Kaneshie Polyclinic (Internship)* | Ghana

August 2014 – October 2014

Duties and responsibilities included:

- Conducted Phlebotomy.
- Carried out Routine Liver Function Test, Renal Function Test, Lipid Profile, and Blood Glucose Testing using Chemistry Analyzers and glucometers.
- Determined haemoglobin type using the Cellulose Acetate Electrophoresis Method.

- Performed Glucose-6-Phosphate Dehydrogenase Deficiency test.

Medical Laboratory Scientist | *Korle-Bu Teaching Hospital (Internship)* | Ghana

2013 – 2015

Duties and responsibilities included:

- Conducted Phlebotomy to obtain blood samples for analyses
- Performed biomedical analysis using analyzers.
- Analyzed sputum for tuberculosis diagnosis and treatment monitoring.
- Performed ABO and Rhesus blood grouping and crossmatching.
- Determined Haemoglobin type using the Cellulose Acetate Electrophoresis Method.
- Performed Glucose-6-Phosphate Deficiency Testing.
- Handled sample reception and processing to maintain integrity.
- Conducted urine and stool routine examinations.
- Performed culture and sensitivity testing.
- Prepared various media for bacteria isolation and identification
- Conducted Routine Liver Function Test, Renal Function Test, Lipid Profile, Cardiac Enzymes, and Blood Glucose Testing using Johnson and Johnson Vitros DT 60 II and Akray Dry Chemistry Analyzers.
- Analyzed sputum for tuberculosis diagnosis and treatment monitoring.
- Processed tissue and performed staining for histological examination
- Fixed tissues to preserve morphology and cellularity
- Concentrated tissue and cellular components of samples using cytocentrifugation
- Operated tissue processing machines
- Microtomy
- Performed Papanicolaou staining on cytological smears

EDUCATION

BSc. Medical Laboratory Sciences | *University of Ghana* | Ghana

Graduation Year: 2016

RESEARCH EXPERIENCE/PUBLICATION

- Collins Amponsah, Emmanuel U. Osiyogu, **Mark Addy**, Philip Asumang, Frank Kwasi Kumah, and Enid Owusu. (2025). *Evaluating the Efficacy of 0.5% Sodium Hypochlorite Disinfection for Microbial Control in Korle Bu Teaching Hospital's Burns and Plastics Unit. Ethiopian Journal of Health Sciences*, 35(2), 101–107.
- UG & UC Davis Project (2022 – 2024): "Effect of Household Use of Multiple Micronutrient-Fortified Bouillon on Micronutrient Status Among Women and Children in Two Districts in the Northern Region of Ghana".
- UNICEF Project, (23rd Oct, - 25th Nov. 2022): Girls Iron Folate Tablet Supplementation (GIFTS) project.

PROFESSIONAL SOCIETIES

- **Dubai Health Authority (DHA)** | UAE
PIN: 7385
Years Active: 2025 – 2026
- 2023 – 2026 **American Society for Clinical Pathology (ASCP)** | USA
PIN: 25869847
Years Active: 2023 – 2026
- **Allied Health Professions Council (AHPC)** | Ghana
PIN: 09026918
Years Active: 2020 – 2024, 2024 – 2028
- **Ghana Association of Medical Laboratory Scientists (GAMLS)** | Ghana

COMMUNITY AND VOLUNTEER WORKS

Health Officer | *GAKS Foundation* | Ghana

- Recruitment of other health professionals for medical outreach
- Liaising with CEO to purchase medical supplies for outreach
- Coordinating affairs between health professionals during medical screenings
- Coordinating with selected hospitals for payment of bills of selected patients who cannot afford

Laboratory Team Lead | *Roche International* | Ghana

- Collected biological specimens from participants for kidney disease screening as part of World Kidney Day celebration

Team Member | *Hajj Health Committee* | Ghana

- Collected nasopharyngeal samples from prospective Muslim pilgrims and tested them for COVID-19

TECHNICAL SKILLS

- Calibration and troubleshooting
- Phlebotomy
- Microscopy
- Laboratory Procedures
- ELISA
- Western Blot
- DNA Extraction
- Electrophoresis
- HPLC
- LIMS

SOFT SKILLS/TRAITS

Attention to Detail

Time Management

Critical Thinking and Clinical Reasoning

Communication

Teamwork

Adaptability

Ethical

Leadership

Skills

Problem-Solving

REFERENCES

Available on request