

David Anthony Kibe Waweru

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CAREER OBJECTIVE

To excel in a dynamic, innovative and challenging career for optimal utilization of my academic and professional potential and abilities

TECHNICAL SKILLS AND EXPERIENCE

- ❖ Fully Automated and Semi-automated HIV DNA PCR for Early Infant Diagnosis techniques
- ❖ Fully Automated and Semi-automated HIV RNA PCR for viral load quantification techniques
- ❖ Fully automated and semi-automated Chemistry techniques for Liver function tests, Kidney function tests, Lipid profile, Cardiac and Muscle enzymes, Bone Chemistry, Pancreas function tests, Uric acid, Lactic acid, Blood sugar and Glycosylated Haemoglobin assays
- ❖ Dry Chemistry for Microalbumin, VDRL, C-Reactive Protein, HIV, Hepatitis B, Occult blood, Blood sugar and Glycosylated haemoglobin (HBA₁C)
- ❖ ISE technique for electrolytes in serum and urine
- ❖ Blood Cells counts using both 5-part and 3-part differential haematology coulter analyzers
- ❖ Lymphocytes phenotyping using FACS Calibur and Facscount flow-cytometer for absolute CD4/CD3/CD45 counts and percentage analysis
- ❖ Micro-particle Immunoassay technique for Thyroid hormones, Prostatic surface antigen, HIV and Glycosylated haemoglobin (HBA₁C)
- ❖ Fully Automated and Semi-automated ELISA technique for HIV, Hepatitis A, B, & C virus, Toxoplasma, H. pylori, Antinuclear antibodies, B-hcG, CEA, CA 19-9, CA 15-3 and CA 125
- ❖ Microbiology culture technique for isolation of pathogens in stool, urine, effusions and swabs
- ❖ Parasitology techniques for detection of parasites in stool, urine and blood
- ❖ Serological techniques for Salmonella Antigens, Brucella antibodies, Antistreptolysin-O (ASO), Rheumatoid Factor, Antinuclear antibodies and ABO blood group typing
- ❖ Laboratory Internal and External Quality Control Techniques
- ❖ Specimen storage and archiving techniques
- ❖ Daily maintenance of Laboratory equipment and Test systems
- ❖ Chemical and Steam sterilization techniques
- ❖ SOPs Writing and Revision (GCLP)
- ❖ Laboratory Information Management Systems (LIMS) application
- ❖ Laboratory Records keeping and Archiving
- ❖ Laboratory waste management and disposal techniques
- ❖ Laboratory Safety practice techniques
- ❖ Excellent Paediatrics and Adult phlebotomy techniques

WORKING EXPERIENCE

Dec 2010 – To Date : **Laboratory Technologist**
Partners in Advanced Care and Treatment (PACT-CoE) Program
Dept. of Paediatrics and Child Health Molecular Laboratory
University of Nairobi

Key Responsibilities

- ♦ Carrying out Molecular assays in HIV-1 DNA PCR for infant diagnosis for patients supported by the program
- ♦ Collection, preparation and storage of Dried Blood Spots (DBS)
- ♦ Carrying out Molecular assays in HIV-1 RNA PCR for viral load quantification for patients supported by the program
- ♦ Maintenance of Laboratory Records as well as preparation of Monthly Laboratory Reports for the Program.
- ♦ Other Standard Molecular Laboratory procedures including; Specimen collection, separation and storage, Formulation and revision of Laboratory SOPs, Maintenance of Laboratory records, Maintenance of Laboratory equipment, Sterilization procedures and Laboratory waste management
- ♦ As a Member (Secretary) of the PACT-CoE Laboratory Technical Working Group (LTGW) – Planning and steering heading the implementation of Annual Laboratory activities covering Kenyatta National Hospital Comprehensive Care Lab, UoN Paediatrics Molecular Lab and Pumwani Hospital Laboratory

Jan 2006 – Nov 2010 : **Laboratory Technologist**
Aids Care & Treatment Services (ACTS) Program
Dept. of Paediatrics & Child Health, University of Nairobi

Key Responsibilities

- ♦ Carrying out Specialized Laboratory investigations for both Paediatrics and Adult Patients enrolled in the Program for HIV comprehensive care and treatment
- ♦ Coordinating Laboratory Specimens and reports for other HIV care and treatment sites supported by the program (University Health Service, SOS village, I Choose Life, Beacon of Hope)
- ♦ Maintenance of Laboratory Records as well as preparation of Monthly Laboratory Reports for the Program.
- ♦ Carrying out Laboratory investigations for In and Out patients received in the Laboratory
- ♦ Carrying out Specialized Laboratory tests for research activities undertaken in the Laboratory
- ♦ Participating in the facilitation of MB.ChB student Laboratory rotation sessions
- ♦ Other Standard Laboratory Procedures including; Specimen collection, separation and storage, Culture Media preparation, Formulation and revision of Laboratory SOPs, Maintenance of Laboratory records, Maintenance of Laboratory equipment, Sterilization procedures and Laboratory waste management

Jan 2005 – Sept 2005 : **Laboratory Technologist (Intern)**
Dept. of Paediatrics & Child Health, University of Nairobi

Key Responsibilities

- ♦ Carrying out Diagnostic Laboratory investigations for In and Out patients received at the Laboratory in the following Laboratory sections;
 - Microbiology and Parasitology
 - Clinical Chemistry and Haematology
 - Serology
- ♦ Other Standard Laboratory Procedures as above

Jul 2003 – Dec 2004 : **Laboratory Technologist (Intern)**
Dept. of Obstetrics & Gynaecology, University of Nairobi

Key Responsibilities

- ◆ Specimen collection, Processing and/or Examination for various Diagnostic Laboratory investigations in the following laboratory sections:
 - Microbiology and Parasitology
 - Clinical Chemistry and Haematology
 - Hormonal Assays, Semen analysis and Cytology (Gynaecological)
 - Serology
- ◆ Guiding and Organizing In-training students (Medical Laboratory Sciences) on attachment program at the Laboratory
- ◆ Other Standard Laboratory Procedures as above

June 2003 : **Laboratory Technologist (Intern)**
Dept. of Human Pathology, University of Nairobi

Key Responsibilities

- ◆ Handling Histological and Cytological Laboratory specimens under the following:
 - Specimen Reception, Fixation and Processing
 - Histological and Cytological Staining Techniques
 - Storage of Histological and Cytological specimens
 - Reagents and Stains Preparation, Storage and Maintenance
 - Basic Museum Techniques

PROFESSIONAL TRAINING

- Aug 2006 - Aug 2007 - Higher Diploma in Clinical Chemistry
Kenya Polytechnic
- Sept 2000 - Dec 2002 - Diploma in Medical Laboratory Sciences
Kenya Polytechnic

Professional Affiliation

- Registered by the Kenya Medical Laboratory Technologists and Technicians Board (KMLTTB)

Professional Objective

- To Attain a Masters Degree Level

EDUCATIONAL BACKGROUND

- 1986 – 1989 - Kianyaga High School
Kenya Certificate of Secondary Education (KCSE)
- 1977 – 1985 - St. Mary's Boarding School (Karira)
Kenya Certificate of Primary Education (KCPE)

OTHER TRAINING AND WORKSHOPS

- April 2013 - Biosafety and Biosecurity for Medical Laboratory Technologists
- April 2013 - Good Clinical Laboratory Practice (GCLP)
- Sept 2012 - Quality Management Systems (QMS) requirement for Medical Laboratories (ISO 15189:2003) Implementation Training – RAMS Africa
- Aug 2012 - Ethics and Data Integrity for Technical Staff – Association of Public Health Laboratories (APHL), ASCLS P.A.C.E Program
- Jun 2012 - Good Laboratory Practices for Molecular Genetic Testing – Association of Public Health Laboratories (APHL), ASCLS P.A.C.E Program
- May 2012 - FACS Calibur operator and CD4 GLP Training – Becton, Dickinson (BD)
- Apr 2012 - Human Health; Global Health Issues – Alison Courses and Certification
- Apr 2011 - Laboratory Management Systems (ISO 17025:2005) – Kenya Bureau of Standards (KEBS)
- Nov 2010 - Human Quality Assessment Scheme (HuQAS) EQA workshop
- Oct 2010 - Applied Bio-systems Fast Real-Time PCR System Training
- Apr 2010 - Good Clinical Laboratory Practice – Kenya AIDS Vaccine Initiative (KAVI)
- Nov 2009 - Human Quality Assessment Scheme (HuQAS) EQA workshop
- Apr 2009 - Good Laboratory Practice – Kenya Medical Research Institute (KEMRI)
- Jun 2008 - Good Clinical Practice – International AIDS Vaccine Initiative (IAVI)
- Dec 2007 - Beckman Coulter Haematology Analyzer Operator Training
- Jun 2007 - Good Clinical Practice (GCP) Education for Research (CITI)
- Jun 2007 - Human Participants Protection Education for Research (CITI)
- May 2007 - Good Phlebotomy Practice - Becton, Dickinson (BD)
- Mar 2007 - Adherence Counseling in HIV/AIDS Management
- Jan 2007 - Optimizing Paediatrics HIV-1 HAART (OPH) study procedures
- Nov 2006 - Human Quality Assessment Scheme (HuQAS) EQA workshop
- Oct 2006 - Diagnostic Counseling and Testing (DCT)
- Aug 2006 - WHO/TDR - Good Laboratory Practice (GLP)
- Jun 2006 - Comprehensive Paediatrics HIV Management
- May 2006 - Human Participant Protections Education for Research (NIH)
- Aug 2004 - HIV/AIDS Pre and Post HIV test counseling skills

PARTICIPATION IN RESEARCH ACTIVITIES

2012: Wamalwa D, Grace John-Stewart; Optimizing Paediatric HIV-1 Therapy Clinical Trial.

Participation – Analysis of blood specimen for Full blood counts, Absolute CD4 and CD4%, ALT, Creatinine, Glucose, Amylase, Lipid profile and serum separation and storage

- 2012:** EDCTP – Paediatrics Vaccine (PedVacc) Clinical Trial;
Participation – Analysis of blood specimen for RNA PCR (Viral load) and Paediatric Phlebotomy for all participating infants
- 2012:** Supplementary Paediatrics Adherence study S-PAD;
Participation – Analysis of blood specimen for RNA PCR (Viral load)
- 2011:** Wamalwa D; Long term Paediatric HAART efficacy.
Participation – Analysis of blood specimen for Full blood counts, Absolute CD4 and CD4%, ALT, Albumin, Creatinine, Glucose, Lipid profile and serum separation and storage
- 2011:** Maina C; The Prevalence of Hyperglycaemia in paediatric patients on system corticosteroid therapy at the Kenyatta National Hospital.
Participation – Analysis of blood specimen for fasting and post-prandial glucose levels
- 2011:** Fitzwanga K; Acute Kidney injury following cardiopulmonary bypass surgery in children at Kenyatta National Hospital and Mater Hospital.
Participation – Analysis of blood specimen for Full blood counts
- 2011:** Mashep; Prevalence of Hyperlactatemia among children infected with HIV and on antiretroviral therapy.
Participation – Analysis of blood specimen for Lactic acid levels, Full blood counts, Absolute CD4 counts and CD4%
- 2011:** Kisiangani J, Mungai L.W, Jowi C,Wamalwa D; Prevalence and correlation of early onset neonatal Hypocalcemia at Kenyatta National Hospital.
Participation – Analysis of serum specimen for Calcium levels
- 2011:** Oyiengo L.A,Meme J,Oyatsi D; A cross sectional study on the prevalence of intestinal parasites, the nutritional status and Haemoglobin levels of pre-school aged children living in Kibera slums.
Participation – Analysis of blood specimen for Haemoglobin and stool for intestinal parasites
- 2010:** Amollo P, Were F, Mungai L.W, Mbori-Ngacha D; The Prevalence of Microalbuminuria in children and adolescents with type 1 diabetes mellitus at the outpatient clinic in Kenyatta National Hospital.
Participation – Analysis of blood specimen for HBA₁C levels
- 2010:** Owour F.O, Farquhar C; Valacyclovir in pregnancy
Participation – Analysis of blood specimen for Alanine transaminase (ALT) and Creatinine
- 2009:** Nduati R, Kose J; Triple-antiretroviral prophylaxis during pregnancy and breast feeding compared to short antiretroviral therapy prophylaxis to prevent mother to child transmission of HIV-1 .
Participation – Analysis of blood specimen for Absolute CD4 counts and CD4%
- 2009:** Odero N.A, Jowi C,Kitonyi G.W ; The Prevalence of Pulmonary Arterial Hypertension in children with sickle cell disease at Kenyatta National Hospital
Participation – Analysis of serum specimen for Lactate Dehydrogenase (LDH) levels

2009 : Kilonzo S.M, Mbori-Ngacha D, Jowi C, Wamalwa D, Kigundu C.S ; The prevalence of Dyslipidemia in HIV infected children receiving highly active antiretroviral therapy at the Kenyatta National Hospital

Participation – Analysis of serum specimen for fasting lipid profile levels

2007: Gatinu B.W, Irimu G, Machaira W, Nyangao J.O; Prevalence of Group A Rotavirus and Electrolyte profile in children admitting with acute diarrhoea at Kenyatta National Hospital

Participation – Routine analysis of stool specimen

2006 : Galgalo D, Nduati R, Obimbo E, Irimu G, Wamalwa D ; Prevalence of Renal Disease in HIV-1 infected children at KNH

Participation – Analysis of blood specimen for Full blood counts, Absolute CD4 and CD4%, Liver function tests and Renal function tests

ADDITIONAL QUALIFICATION

Computer Application Skills:

- ♦ Ms - Office
- ♦ Window Xp

HOBBIES

Reading, Indoor games, Graphic design, Fine art and Listening to Music

REFEREES

- 1. Mrs. Teresia Mwaniki**
Principal Technologist
Dept. of Paediatrics & Child Health, College of Health Sciences, University of Nairobi
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- 2. Mr. John W. Njoroge**
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- 3. Mr. S. Elliot Edupu**
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Sign:  Date: 11th June, 2013