

CURRICULUM VITAE

PERSONAL BIODATA

NAME: Nyambura Kariuki

DATE OF BIRTH: 10 October 1960

NATIONALITY: Kenyan

ADDRESS: Department of Paediatrics & Child Health, University of Nairobi, P.O. Box 19676 - 00202 Nairobi, Kenya

TELEPHONE NO: Office +254 20 2726300 ext 43650 or +254 20 2714877
Cell Phone +254 722 679119 +254 738 679119

FAX +254 20 2720251

E-MAIL: kariukin1@yahoo.co.uk

EDUCATION

PRIMARY: 1966-1972: Thogoto Junior School – Standard 1-7

SECONDARY: 1973-1978: Alliance Girls' High School – Form 1-6

UNIVERSITY: 1979-1985: University of Nairobi
1990-1995: University of Nairobi
1996-1997: Imperial College, London

EXAMINATIONS

C.P.E. - 1972

E.A.C.E. - 1976 (Division 1)

E.A.A.C.E. - 1978 (4 Principals, 1 Subsidiary)

MBCbB - 1985

Certificate of Tropical Medicine - 1993

MMed (Paediatrics) - 1995

Fellowship in Paediatric Haematology & Oncology - 1997

PERSONAL STATEMENT

As one of only two Paediatric Haematologist / Oncologists in Kenya, I have over the last 20 years, been involved in caring for children with cancer and other blood diseases. As the Head of the Paediatric Haematology / Oncology Unit at Kenyatta National Teaching and Referral Hospital, The Nairobi Hospital and at Gertrude's Children's Hospital, I have assumed significant levels of responsibility, at both a national and a regional level, in multidisciplinary teams amidst dual clinical and academic settings, thereby gaining project management experience, developing content expertise on a range of healthcare issues and contributing to peer - reviewed scientific literature and presentations.

Specifically, with regard to this discipline, I revere the holistic approach to patient-centred care and the opportunity it affords for collaboration across specialties. My interaction with the patients and their close relatives, has afforded me the opportunity to hone my skills in counselling, pain management and end of life care. Collectively, I have attained a broader perception of cultural and socio-economic awareness.

Above and beyond, a career in Paediatrics, Haematology and Oncology entails a host of skill sets, ranging from patience, compassion and dedication to scientific acumen. To date, I have gained clinical and academic experience from a variety of settings: public healthcare system at Kenyatta National Hospital and other Government health institutions, private healthcare system at Nairobi, Aga Khan, MP Shah and Gertrude's hospitals, dual clinical and academic setting at the College of Health Sciences, University of Nairobi.

Furthermore, scholarly activity, such as teaching and conducting research, forms a cornerstone of the profession. In this regard, it has been gratifying to share knowledge in various aspects, beginning with giving lectures, tutorials and clinical sessions to both undergraduate and postgraduate medical students and continuing to supervision of postgraduate thesis and to making scientific presentations at professional development sessions and at local and international conferences.

I have come to appreciate that the path to attaining proficiency in research methods is a continual process. To this end, I am engaged in two clinical trials in Sickle Cell Disease. I aim to make further contributions in academia, share knowledge with future generations, and strive towards excellence in clinical practice.

In pursuit of the aforementioned, be it in the private or public sector, regional or international, I have continually embraced the cherished position of being a flag bearer for the University of Nairobi. In essence, I embrace the prospect of pursuing my vocation through your institution and would gratefully welcome acceptance to the University of Nairobi esteemed cadre of Associate Professors.

AREA OF EXPERTISE

- ❖ Paediatrics
- ❖ Child Health
- ❖ Paediatric Haematology
- ❖ Paediatric Oncology
- ❖ Palliative Care
- ❖ Counselling for chronic disease & terminal illnesses

AWARDS

- ❖ Kenya's Representative on the Juliet Lowe World Friendship Tour of U.S.A in 1979. Award given to top Girl Guide in Kenya.
- ❖ Commonwealth Scholarship, Paediatric Haematology & Oncology, Imperial College, London (1996-1997)

TECHNICAL SUPPORT

- ❖ Project Director, Cancer Treatment Programme, Gertrude's Children's Hospital 2003 to date
- ❖ Chairman, Advisory Committee, Children's Sickle Cell Society 2003 to date
- ❖ Advisory Committee, Kenya Haemophilia Society 2006 to date
- ❖ Continuing Professional Development Coordinator, Division of Paediatrics, Nairobi Hospital 2008 to date
- ❖ Reviewer East African Medical Journal 2009 to date.
- ❖ Member, Ethics & Research Committee, Nairobi Hospital, Sept 2012 to date
- ❖ Ministry of Health, Cancer Treatment Protocol Development, 2014/2015
- ❖ Ministry of Health, Sickle Cell Disease Technical Working Group 2015 to date
- ❖ Member of Blood Transfusion Committee at Gertrude's Children's Hospital 2015 to date

WORK EXPERIENCE

Aug. 1996 to date:

Academic member of staff, Department of Paediatrics & Child Health, University of Nairobi. Consultant Paediatrician & Paediatric Haematologist / Oncologist, Kenyatta National Hospital

- *August 1996 to 2002: Lecturer*
- *November 2002 to date: Senior Lecturer*
- *Oct. 1996-Oct. 1997:*

Commonwealth Fellowship in Paediatric Haematology & Oncology, Imperial College London. Clinical Assistant / Registrar in the Departments of Paediatrics and Haematology, Hammersmith Hospital, London.

Sept. 1995-Aug. 1996:

Consultant Paediatrician at Mbagathi District Hospital, Nairobi.

Nov. 1990-Aug. 1995:

Resident, Department of Paediatrics and Child Health, University of Nairobi, Kenyatta National Hospital.

Oct. 1989-Nov. 1990:

Medical Officer in Charge, National Youth Service Health Centre, Ruaraka.
Carrying out both clinical and administrative duties.

Feb. 1988-Oct. 1989:

Medical Officer, District Hospital, Nyahururu. Responsibilities included: running of ward, carrying out emergency surgical operations, conducting post-mortems as well as sharing the workload generated by the out-patient clinics.

July 1987-Feb. 1988:

Medical Officer at the Casualty Department, Kenyatta National Hospital. Dealt with surgical, medical, obstetric and gynaecological emergencies.

July 1986-July 1987:

Internship at Kenyatta National Hospital.

Jan. 1986-July 1986:

Research Assistant in the Department of Epidemiology and Community Medicine, University of Ottawa, Canada.

OTHER EXPERIENCE**July 1983-Sept. 1983**

Research Assistant at the KEMRI Virus Research Centre, Nairobi. Project – “Virus that cause Haemorrhagic Fever”. Project Director – Dr. Bruce Johnson.

SPECIAL RESPONSIBILITIES

- ❖ Consultant in charge of Paediatric Haematology & Oncology Unit at Kenyatta National Referral and Teaching Hospital.
- ❖ Departmental representative in the University Curriculum Committee
- ❖ Coordinator of the undergraduate programme.
- ❖ Member of the Examination Committee
- ❖ Member Objective Structured Clinical Examination (OSCE) team.
- ❖ Coordinator MMed Part 1 Haematology / Oncology Lecture Series

Other clinical / teaching responsibilities

- ❖ Honorary Lecturer Aga Khan University Hospital
- ❖ Honorary Lecturer in Paediatric Haematology, The Medical Training College
- ❖ Honorary Lecturer in Paediatric Haematology, Gertrude's Children's Hospital Training School.
- ❖ Consultant Paediatrician/Paediatric Haematologist / Oncologist, Kenyatta National Hospital, Gertrude's Garden Children's Hospital, Nairobi Hospital, Aga Khan University Hospital, M.P. Shah Hospital, Mater Hospital.
- ❖ Consultant in charge Paediatric Haematology/Oncology Unit, The Nairobi Hospital.
- ❖ Consultant in charge Haematology/Oncology Referral Clinic at Gertrude's Children's Hospital.
- ❖ Project Director, Cancer Treatment Programme, Gertrude's Children's Hospital
- ❖ Member of Blood Transfusion Committee at Gertrude's Children's Hospital 2015
- ❖ Member, Ethics & Research Committee, Nairobi Hospital, Sept 2012 to date.

CURRICULUM DEVELOPMENT

- ❖ Member of The Curriculum Development Committee, School of Medicine, University of Nairobi. Worked MBChB I – IV Curriculum. 2002 to 2007
- ❖ Review of MMed Paediatrics Curriculum, University of Nairobi. 2014
- ❖ Fellowship in Paediatric Haematology & Oncology, University of Nairobi - Ongoing

COURSES ATTENDED

- ❖ Emergency Medicine – Kenyatta National Hospital – conducted by a team from John Hopkins University, U.S.A.1992
- ❖ Acute Respiratory Infection Management – University of Nairobi 1992
- ❖ Tropical Medicine – University of Nairobi April - August1993
- ❖ Lactation Management – Kenyatta National Hospital March1994
- ❖ Novel Approaches in Paediatric Oncology Jan 1997 – The Royal Marsden Hospital, London
- ❖ UK Forum on Haemoglobinopathies May 1997
- ❖ Advances in Haematology Course June 1997 – The Royal Postgraduate Medical School, University of London
- ❖ Second regional seminar on Sickle Cell Disease – Cotonou, Republic of Benin – January 2001
- ❖ Integrated Management of Childhood Illnesses (IMCI) course – Harare, Zimbabwe – July 2003
- ❖ Advances in Haematology Course June 2004 – Imperial College London
- ❖ Pedagogy Course - University of Nairobi 2009
- ❖ Training of Trainers Workshop on Medical Education, Centre for Innovative Medical Training, St John's Medical College. 3 – 7 January 2011
- ❖ Pneumococcal Summit - Accra, Ghana, September 2011.
- ❖ Microresearch Workshop – November 2011
- ❖ Paediatric Oncology Symposium, Kenya Paediatric Association 2012
- ❖ Haemostasis and Thrombosis Symposium. 11 October, 2012
- ❖ Paediatric Palliative Care Workshop 22 – 26 October 2012
- ❖ Medico-Legal Symposium 25 May 2013 Nairobi Hospital
- ❖ European Paediatric Life Support (EPLS) Provider Course. Resuscitation Council (UK) 23- 24 May 2013. The Aga Khan University Hospital, Nairobi.
- ❖ Bioethics Training Workshop 3-5 July 2013. Sponsored by International Development Research Centre. Conducted by Kenya Aids Vaccine Initiative (KAVI) in collaboration with The National Council for Science & Technology
- ❖ Vaccinology Course. 2013 University of Nairobi.
- ❖ Sickle Cell Disease Preceptorship Course. 20 – 21 February 2014. Paris, France
- ❖ Neonatal Resuscitation Training Workshop. Nairobi Hospital. 28 June 2014
- ❖ Maternal and Infant Nutrition Workshop 1-4 October 2015. Dubai, UAE.
- ❖ Paediatric Oncology & Bone Marrow Transplant Clinical Workshop, Apollo Hospitals, Ahmedabad, India, 28-31 January 2016.
- ❖ European Paediatric Advanced Life Support (EPALS)Course . Resuscitation Council (UK) 9-10 March 2017. The Aga Khan University Hospital, Nairobi.
- ❖ KEMRI Research and Bioethics Course 23 – 24 March 2018, Nairobi Hospital

PAPERS READ AT CONFERENCES

- i. The cardiac status in children with malignancies. Society of International Paediatric Oncology (SIOP) Annual Meeting, April 1994 – Cape Town
- ii. The cardiac status in children with malignancies. African Clinical Epidemiology Network (Africlen) Annual Meeting, September 1994 – Fayed, Egypt
- iii. Paediatric Bone Marrow Transplant, Kenya Association of Physicians, October 1999, Nairobi.
- iv. Management of Immune Thrombocytopenia. Haemostasis and Thrombosis Symposium. 11 October, 2012 – Nairobi
- v. Pain management in Children. Kenya Paediatric Association Conference. April 2015 – Mombasa
- vi. Caregiver ORS fluid charts versus standard care for the management of some dehydration secondary to acute diarrhoea among Kenyan children: a randomized controlled trial. World Society for Paediatric Infectious Diseases (WSPID). 19 Nov. 2015. Rio de Janeiro, Brazil.
- vii. The influence of maternal prenatal education on infant nutritional status. Kenya Obstetrics / Gynaecology Society Conference, Feb 2017- Mombasa
- viii. Cardiotropin levels in children with cancer receiving chemotherapy at Kenyatta National Hospital. Kenya Paediatric Association Conference, April 2017
- ix. Immune thrombocytopenia in Kenya: At Haematology, Oncology Society of Africa (HOSA) Conference on 2 August 2017, Nairobi

RESEARCH PROJECTS

Completed Research

- i. Co Investigator in Bacterial meningitis in children admitted in hospitals within Nairobi. (1994-1995)
- ii. Co Investigator in Carriage of Non-typhoidal Salmonella (NTS) in apparently healthy children from homes of children admitted to hospital with NTS bacteraemia in Nairobi, Kenya. (2001-2004)
- iii. Co Investigator in the TADO Study - Multinational Double blind randomized efficacy & safety trial of an antiplatelet drug prasugrel in sicklers. (May 2013 to Nov. 2015)
- iv. Co Investigator in the influence of Maternal Prenatal Health Education on Infant Nutritional Status. (July 2016 to Dec. 2016)

Ongoing Research

- i. Co Investigator in the Multicentre, open-label, randomised, pharmacokinetic (PK) and pharmacodynamic (PD) dose-ranging Phase II study of ticagrelor followed by a double-blind, randomised, parallel-group, placebo-controlled 4 weeks extension phase in paediatric patients with sickle cell disease. Sponsor: Astra Zeneca. (14 October 2016 to date)

PUBLICATIONS

- i. J O'Donnell, JM Goldman, K Wagner, G Ehinger, N martin, M Leahy,
- ii. **N Kariuki**, I Dokal, I Roberts. Donor derived Plasmodium vivax infection following volunteer unrelated bone marrow transplantation- Bone marrow transplantation 1998 Feb; 21(3); 313-4.
- iii. **N Kariuki**, WM Macharia, HO Aseso. Cardiac abnormalities in children with malignancies at Kenyatta National Hospital. East Afr. Med. J. 1997 Nov; 74:702-704.
- iv. NB Mirza, BB Estambale, IA Wamola, **N Kariuki**, E Onyono, P Kabiru. Bacterial meningitis in children admitted in hospitals within Nairobi. East Afr. Med. J. 1998 Feb; 75:73-76.
- v. **N Kariuki**, MN Karanja, SO McLigeyo. Polycystic kidney disease in tuberous sclerosis complex: Case Report. East Afr. Med. J. 1998 Oct; 75:616-618.
- vi. S Kariuki, G Revathi, **N Kariuki**, J Muyodi, J Mwituria, A Munyalo, D Kagendo. Increasing prevalence of multi-drug-resistant non typhoidal salmonellae, Kenya, 1994-2003. International Journal of Antimicrobial Agents 2005 Jan; 25: 38-43.
- vii. S Kariuki, G Revathi, **N Kariuki**, J Kiiru, J Mwituria, CA Hart. Characterisation of community acquired non-typhoidal salmonella from bacteraemia and diarrhoeal infections in children admitted to hospital in Nairobi, Kenya. BMC Microbiol. 2006 Dec 15; 6:101.
- viii. S Kariuki, G Revathi, **N Kariuki**, J Kiiru, J Mwituria, J Muyodi... Invasive multidrug-resistant Non-typhoidal Salmonella infections in Africa: zoonotic or anthroponotic transmission. Journal of Medical Microbiology 2006 May; 55: 585-591.
- ix. **N Kariuki**. Management of Immune Thrombocytopaenia in Children. East Afr. Med. J. 2009 Dec; 86:S84-5.
- x. EG Kibaru, R Nduati, D Wamalwa, **N Kariuki**. Baseline Haematological Indices among HIV-1 Infected Children at Kenyatta National Hospital International Journal of Novel Research in Healthcare, Vol1, Issue1, pp: (21-26), September-December 2014.
- xi. EG Kibaru, R Nduati, D Wamalwa, **N Kariuki**. Impact of highly active antiretroviral therapy on hematological indices among HIV -1 infected children at Kenyatta National Hospital-Kenya: retrospective study AIDS Res Ther. 2015 Aug 15; 12:26..
- xii. Mukokinya Kailemia,, Nyambura Kariuki, Ahmed Laving, Ambrose Agweyu and Dalton Wamalwa. Caregiver oral rehydration solution fluid monitoring charts versus standard care for the management of some dehydration among Kenyan children: a randomized controlled trial. Int Health doi:10.1093/in thealth/ihy040 . June 2018

DISSERTATIONS SUPERVISED, MASTER OF MEDICINE IN PAEDIATRICS & CHILD HEALTH, UNIVERSITY OF NAIROBI

- i. Adil Waris 2003. Serum alkaline phosphatase as a marker of vitamin D deficiency in children at Kenyatta National Hospital.
- ii. P Mandi 2004. Prevalence of *Cryptosporidium parvum* in 6 to 60 month old children presenting with diarrhoea at Kenyatta National Hospital, Nairobi, Kenya.
- iii. Rosalind Wahu Gitakah 2006. Blood transfusion practices in children admitted at Kenyatta National Hospital, Kenya.
- iv. Martin Jalemba Aluvaala 2009. Prevalence of anaemia, and iron deficiency anaemia in nine month old infants attending well child clinic.
- v. Elizabeth Gathoni Kibaru 2009. Changes in haematological parameters in HIV- 1 infected children following six months of highly active antiretroviral therapy at Kenyatta National Hospital.
- vi. Mary Waiyego Kariuki 2010. Prevalence of chest xray confirmed pneumonia by standardized categorization in children 2 to 59 months presenting at the Paediatric Filter Clinic, Kenyatta National Hospital.
- vii. Immaculate Mutisya 2010. Linkage to long-term care of newly diagnosed HIV exposed children at Kenyatta National Hospital.
- viii. Wairimu Kimani 2012. Evaluation of nutritional support given to critically ill children admitted to paediatric wards and the Intensive Care Unit at Kenyatta National Hospital.
- ix. Ann W Kimunya 2013. Audit of the current standard of care for children with severe malnutrition at Mbagathi District Hospital.
- x. Wycliffe Ngaruiya Kimani 2013. The prevalence of bacteraemia in severely malnourished children aged 2 to 59 months, and antibiotic sensitivity to the current WHO antibiotics at Mbagathi District Hospital.
- xi. Edith Opala 2013. Time intervals from symptom onset to diagnosis and treatment in childhood cancer in Kenyatta National Hospital and associated factors.
- xii. Githitu 2013. Prevalence of Vitamin D deficiency in children with nutritional rickets.
- xiii. Lilian Kebaya 2014. Efficacy of mobile phone use on adherence to ART prophylaxis and retention in care among HIV-exposed infants in PMCT.

- xiv. Ameyna Migiro Michieka 2015. Care seeking behavior for neonatal illness in Kisii Community.
- xv. Saida Ali Ibrahim 2015. Prevalence of overweight & obesity in nursery school children in Embakasi
- xvi. Mukokinya Kailemia 2015. Efficacy of caregiver ORS fluid charts in the management of acute diarrhoea at Mbagathi District Hospital.
- xvii. Veronica Obunga 2016. Hospitalization rates, within the first month of life, for babies born at Kenyatta National Hospital.
- xviii. Esther Kimani 2017. Early myocardial injury as determined by Cardiac Troponin T levels in children on cancer chemotherapy.
- xix. Philip Nelson Olielo 2017. Impact of hydroxyurea on frequency of blood transfusion in children with sickle cell anaemia.
- xx. Mahaa Salim Swaleh 2018. Factors associated with hospitalisation of children with Sickle Cell Disease in Kenyatta National Hospital and Gertrude's Children's Hospital.
- xxi. Jackline Shiundu **Ongoing**. An assessment of communication barriers among health care providers and caregivers of children with sickle cell disease at Kenyatta National Hospital.
- xxii. Christian Jacob Bitta **Ongoing**. Does health education given to mothers by phone after discharge over a four week period improve their knowledge of, and appropriate response to danger signs in their babies?

PROFESSIONAL BODIES AFFILIATION

- ❖ Founding Treasurer, Kenya Society of Haematology and Oncology (KESHO) – 2000 to 2006
- ❖ Chairman, Advisory Committee, Children's Sickle Cell Society 2003 to date.
- ❖ Advisory Committee, Kenya Haemophilia Society 2006 to date.
- ❖ Member, Kenya Medical Association 1985 to date.
- ❖ Member, Kenya Paediatrics Association 1995 to date
- ❖ Member, Kenya Society of Haematology & Oncology (KESHO) 2000 to date.
- ❖ Member Kenya Haemophilia Association 2006 to date.
- ❖ Member Haematology/Oncology Society of Africa (HOSA) May 2017.

EXTRACURRICULAR ACTIVITIES (PAST)--

- ❖ Head Prefect, Thogoto Junior School (1972)
- ❖ Head Girl, Alliance Girls' High School (1978)
- ❖ Girl Guide Leader, Alliance Girls' High School (1975-1978)
- ❖ Secretary, Debating Club (1974-1978)
- ❖ Secretary, Science Club (1975-1978)
- ❖ Christian Union committee member (1975-1978)
- ❖ Chairman, Young Soldiers (1976-1978)
- ❖ Sunday School Teacher, Thogoto Junior School (1973-1978)
- ❖ Kenya's Representative, Juliet Lowe World Friendship Tour of U.S.A (1979)
- ❖ Brownie Leader, St. Andrew's Church, Nairobi (1979-1984)
- ❖ Secretary, Fellowship of Christian Unions (FOCUS) of the Universities and Institutions of higher learning (1980/81, 1981/82)
- ❖ Secretary, Associates' Executive Committee (FOCUS) (2000 -2005)
- ❖ Member of the FOCUS Coordinating Council (2000- 2005)
- ❖ Founding Treasurer, Kenya Society of Haematology and Oncology (KESHO) (2000-2006)

EXTRACURRICULAR ACTIVITIES (CURRENT)

- ❖ Associate of the Fellowship of Christian Unions (FOCUS), 1985 to date
- ❖ Member, Kenya Medical Association 1985 to date
- ❖ Member, Kenya Paediatrics Association 1995 to date
- ❖ Member, Kenya Society of Haematology & Oncology (KESHO) 2000 to date
- ❖ Chairman, Advisory Committee, Children's Sickle Cell Society 2003 to date
- ❖ Project Director, Cancer Treatment Programme, Gertrude's Children's Hospital 2003 to date
- ❖ Member Kenya Haemophilia Association 2006 to date.
- ❖ Advisory Committee, Kenya Haemophilia Society 2006 to date.
- ❖ Continuing Professional Development Coordinator, Division of Paediatrics, Nairobi Hospital 2008 to date
- ❖ Paediatrician / Haemato-Oncologist Thomas Barnado Home 2006 to date
- ❖ Member, Kunde Road Residents' Welfare Association 2007 to date
- ❖ Continuing Professional Development Coordinator, Division of Paediatrics, Nairobi Hospital 2008 to date
- ❖ Member, Ethics & Research Committee, Nairobi Hospital, Sept 2012 to date.
- ❖ Member of Blood Transfusion Committee at Gertrude's Children's Hospital 2015 to date
- ❖ Member, Health Workers' Group, St. Andrew's Church, Nairobi 2015 to date
- ❖ Member Haematology/Oncology Society of Africa (HOSA) May 2017
- ❖ Youth Counselling, Fellowship of Christian Unions (1997 to date)
- ❖ Interests include photography, hiking, needlework, cooking, interior decoration, gardening.

ACADEMIC REFEREES

Professor Ezekiel Wafula
Professor of Paediatrics & Child Health
Department of Paediatrics & Child Health
College of Health Sciences
University of Nairobi
P.O. Box 19676 00202 Nairobi, Kenya
Tel +254(0) 20 2726300 Ext 43650
Cell phone +254 722366077

Professor Grace W. Kitonyi
Associate Professor of Haematology & Blood Transfusion
Department of Human Pathology
College of Health Sciences
University of Nairobi
P.O. Box 21494, 00505 Nairobi, Kenya
Cell phone +254 722385336

Professor Ruth Nduati
Professor of Paediatrics & Child Health, HIV & infectious
Diseases Department of Paediatrics & Child Health College of
Health Sciences
University of Nairobi
P.O. Box 19676 00202 Nairobi, Kenya
Tel +254(0) 20 2726300 Ext 43650
Cell phone +254 722235323

Professor Fred Were
Professor of Neonatal Medicine
Dean, School of Medicine
Department of Paediatrics & Child Health
College of Health Sciences
University of Nairobi
P.O. Box 19676 00202 Nairobi, Kenya
Tel +254(0) 20 2726300 Ext 43650
Cell phone +254 722718770

Updated 27th May 2019