

**Dr. Joseph Sumba Omumali**  
*MBChB, MMed, FCPATH ECSA.*  
*Clinical Pathologist*  
*Clinical and Laboratory Haematologist and Haematoncologist*

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CURRENT EMPLOYMENT

Feb 2021 to date: Lecturer, School of Medicine Masinde Muliro University of Science and Technology (MMUST)  
Member of Faculty International Cancer Institute (ICI).  
Currently involved in clinical research protocols with the ICI;  
GBT2104-131: A Randomized Double-blind, Placebo-controlled, Multicenter study to Assess the Safety and Efficacy of Inclacumab in participants with Sickle Cell Disease experiencing Vaso-occlusive Crises.  
GBT2104-132: A Randomized, Double-blind, Placebo-controlled, Multicenter Study of a Single Dose of Inclacumab to Reduce Re-admission in Participants with Sickle Cell Disease and Recurrent Vaso-occlusive Crises.  
MO43110: A randomized multicenter, multinational, open-label phase iiib study to evaluate patient preference to out-of-hospital administration of ph fdc sc in participants with early or locally advanced/inflammatory HER-2-positive breast cancer.  
Nov 2017 to Jan 2021: RD006031: HPV-based cervical cancer screening supported by the iThemba Life mobile solution in Kenya: a prospective cohort study

Chief specialist in charge of Haematology and Oncology services, Kakamega County.  
Kakamega County Haematologist and Oncologist.  
Consultant Haematologist, County Teaching and Referral hospital.  
Oncologist in-charge, County Referral and Teaching hospital (CTRH).  
Head of Department of Haematology and Oncology.

Director Laboratory services (CTRH).

### EDUCATION

- Oct 2011-Jan 2013: Christian Medical College, Vellore, INDIA  
Clinical and Laboratory Haematology, Hemato-oncology and  
Haematopoietic Stem Cell Transplantation.
- 2004: University of Nairobi  
Master of Medicine in Human Pathology (MMed).
- 1997: University of Nairobi  
Bachelor of Medicine and Bachelor of Surgery (MB; ChB).

### QUALIFICATION

- 2013: Certificate of Training in Clinical and Laboratory Haematology,  
Haematoncology  
Christian Medical College, Vellore TN,  
Dr MGR University, Chennai TN INDIA.
- 2013: Fellow of the College of Pathologists of East, Central and Southern  
Africa (FCPathECSA).
- 2004: Master of Medicine (MMed) in Human Pathology,  
University of Nairobi.
- 1997: Bachelor of Medicine and Surgery (MB; ChB),  
University of Nairobi.

OBJECTIVE: To apply professional knowledge and experience to public service,  
academic and corporate world for enhancement of quality of  
human life.

### WORK EXPERIENCE /CAPABILITIES

- Feb 2021 to date: Lecturer, School of Medicine, Masinde Muliro University of  
Science and Technology (MMUST).  
Faculty International Cancer Institute, Eldoret.  
Involved in three (3) ongoing multicenter clinical research  
protocols
- Nov 2017 to Jan 2021: Chief specialist in charge of Haematology and Oncology,  
Kakamega County.

Consultant Haematologist and Oncologist, and Director of Laboratory services Kakamega County General Teaching and Referral Hospital.

March 2013 to Oct 2017: Chief Oncologist and Consultant Haematologist, Defence Forces Memorial Hospital.

Duties, responsibilities and achievements as Chief Oncologist/Haematologist at DFMH

- Team leader in clinical care and overall management of the department of Haematology and Oncology.
- Development of policies, guidelines and standards of care.
- Professional and administrative Head of Department.
- Chairman, Hospital Transfusion Committee.
- Developed blood product usage guidelines for the hospital/KDF.
- Established liaison in haematology, oncology care with other public, private and faith-based institutions.
- Consulting Haematologist, MP Shah Hospital.
- Consulting Haematologist, The Karen Hospital.
- Consulting Haematologist, Nairobi Women Hospital.
- Consulting Haematologist, Meridian Equator Hospital.
- Trained in ELECTROPORATION, next generation chemotherapy delivery technology.
- Teaching and training of Medical Interns
- Teaching, training and mentoring of other staff in the department/hospital
- To support the hospital in its efforts to achieving the vision and mission statement
- Performed other duties as directed by superior authority.

Duties/responsibilities:

Consultant and Head of Department (HoD) Haematology and Oncology CTRH

Advise the hospital CEO on matters and county administration on matters oncology, haematology and related matters.

- Professional and administrative HoD.
- Development of policies, guidelines and standards of care
- Established oncology and haematology clinical care and services in the hospital and county.
- Care of patients and clients with haematologic conditions.
- Care of patients with cancer.
- Screening activities for breast, cervical and prostate cancer.

- Coordinate cancer screening activities within the hospital.
- Coordinate medical camps/outreach activities to the community.
- Medical education for prevention, early diagnosis/treatment of cancer and related ailments.
- Develop effective screening, diagnostic and treatment capability of cancer and other diseases at the county referral hospital.
- Staff training and appraisal.
- Consulting in other hospitals on haematology/oncology and related cases.
- Teaching and training of Interns at all levels of training.
- Teaching, training and mentoring of other staff in the department/hospital.

Director laboratory services CTRH.

- Ensure effective quality laboratory service delivery in hospital.
- Facilitate training of laboratory personnel.
- Ensure sustained EQA enrolment/participation.
- Established Histopathology Laboratory at the hospital
- Chairman, hospital transfusion committee (HTC).
- Development, continuous review of policies and guidelines on rational use of blood products in the hospital.
- Ensure rational use of blood products.
- Audit of blood product utilisation within the hospital and county.
- Blood Donor drives and recruitment campaigns.
- Donor screening.
- Blood collection and screening.
- Continuous Medical Education (CME) coordinator.

Oct 2011-Jan 2013: Senior Registrar, Department of Haematology,  
Christian Medical College, Vellore, INDIA.

Clinical patient care

Participated in procedures, evaluation and care of patients with wide spectrum of haematological conditions, both benign and malignant and/or acquired/congenital including following;  
Haematologic oncology/benign acquired and inherited haematologic disorders

- Bone marrow transplantation, both autologous and allogeneic.
- Evaluation, Preparation and care of patients for bone marrow transplantation.
- Bone marrow transplantation • post-transplant care of patients.
- Care of outpatients in clinics/casualty and inpatients in the Haematology wards
- Performance and reporting of Bone Marrow aspirates and Trepine biopsies.
- Leukaemia (AML/ALL/CLL).
- Lymphoma (Hodgkin, DLBCL, FL, BL among other lymphomas).
- Plasma cell dyscrasia (Multiple myeloma).
- Myeloproliferative Neoplasms (PV, ET, PMF).
- Myelodysplastic syndromes (whole spectrum).
- Thalassaemia syndromes.
- Sickle cell disease
- Metabolic and storage disorders e.g., amyloidosis, Gaucher's disease, hemochromatosis etc.
- Anaemia (Bone marrow failure syndromes, PNH and other acquired conditions causing anaemia).
- Bleeding disorders (screening and treatment of Inherited and acquired disorders such as Haemophilia, Von Willebrand disease, Platelet disorders, DIC, anticoagulant therapy, among other conditions).
- Thrombophilia syndromes (antithrombin and protein s and c deficiencies, antiphospholipid syndrome, Factor V Leyden, acquired thrombophilia etc)
- Attendance to consultations and review requests from other departments within the hospital.
- Administration of chemotherapy.
- Insertion of PICC lines for chemotherapy.
- Teaching, training, mentorship of Medical Officers, Interns.
- Teaching, training and mentoring of other staff in the department/hospital.

## Blood banking and transfusion medicine.

- Donor drives and recruitment campaigns.
- Donor screening.
- Blood collection and screening including Nucleic acid testing for selected diseases in the SOP.
- Product separation and preservation (packed red cells, LDRC, platelet-rich concentrate, cryoprecipitate, FFP).
- Review of transfusion SOPs.
- Stem cell donor screening.
- HLA typing/crossmatching.
- Haematopoietic Stem cell harvesting and preservation.  
Cell separation (pheresis) including platelets, CD34+ cells, mesenchymal stem cells.

## Haemostasis and coagulation

- Screening of bleeding disorders such as Haemophilia, dysfibrinogenaemia and other clotting factor deficiencies/disorders, von Willebrand disease, platelet disorders.
- Patient evaluation: screening testing, factor assays, platelet function tests (Full spectrum of coagulation disorders e.g. Haemophilia, von Willebrand disease, Glanzman thrombasthenia, Bernard Soulier syndrome etc).
- Specific factor assays.
- Inhibitor screening and assay.
- Platelet function tests (platelet aggregometry).
- Thromboelastography.
- Thrombophilia evaluation (antithrombin, protein s, c assay; antiphospholipid syndrome evaluation).
- Genetic counselling of affected families/individuals.

## Flow cytometry, molecular diagnostics and medical genetics

- Application and interpretation of flow cytometry in diagnosis and management of various haematological condition such as leukaemia/lymphoma, myeloma, bleeding disorders (especially platelet abnormalities), PNH.
- Cytogenetics as applied in the management of haematologic disorders (leukaemia/lymphoma, MDS, bone marrow failure syndromes, myeloma etc), using techniques such as FISH or conventional methods.

- Application of molecular diagnostics (RT-PCR), Reverse dot blot (RDB) in the management of conditions such as Thalassaemia/Sickle cell disease (Hb variant analysis), leukaemia/lymphoma, bleeding disorders, thrombophilia etc.
- Screening (genetic) screening of heritable conditions such as Haemophilia, Thalassaemia, Fanconi anaemia etc.

Clinical pathology: laboratory haematology.

- Evaluation and reporting of peripheral blood films.
- Evaluation and reporting of bone marrow aspirates.
- Evaluation and reporting of bone marrow trephine biopsies.
- Immunohistochemistry of lymph node/trephine biopsies.

Workshops/seminars/conferences

- Abstract reviewer, the AnCHOR conference, Eldoret, Kenya 20-23.04.2022.
- Laboratory diagnosis of coagulation disorders 26.11.2012-01.12.2012, CMC Vellore, INDIA.
- Automation in haematology laboratory; Cell Counters. 19-20 October, 2012, CMC Vellore, INDIA.
- Post graduate CME in Haematology, THE PRACTICE OF HAEMATOLOGY IN INDIA; 22-24 August 2012. CMC Vellore, INDIA.
- APECSA conference; October 2010, Mombasa, KENYA.
- International conference KENYA SOCIETY FOR HAEMATOLOGY AND ONCOLOGY (KESHO) November 2014, Nairobi KENYA.
- Continues to participate in numerous professional seminars/workshops organised locally.

#### WHILE IN MILITARY SERVICE

2013 Jan to Oct 2017: Consultant Haematologist and Chief oncologist Defence Forces Memorial Hospital (DFMH).  
 Team leader for the care of all patients with haematology disorders and oncology cases.  
 Chair, hospital tumour board.  
 Chair, hospital transfusion committee.

2011-Sept 2011: Commanding Officer, Medical Battalion, Kenya Defence Forces.  
 Consultant Pathologist Armed Forces Memorial Hospital.

- As a commanding officer, I gained vital skills in command and leadership of people. I acquired important insights in management of other resources necessary for effective leadership and command

of troops, medical support of military operations and management of vital logistics. It gave me an opportunity for rational/founded decision making, for the general good of the institution/country.

2004 -2010: Chief Pathologist, Defence Forces Memorial hospital.

- While appointed in this position, I was both the administrative and professional head of the department of Pathology and Laboratory medicine.
- Deputised the senior medical officer in clinical service delivery
- Performed all procedures within my line of training such as; bone marrow aspiration and reporting, FNA, histopathology, routine laboratory work.
- Was in charge of departmental commodity planning and budgeting.
- Was responsible for procurement and accounting of budget utilisation of the department.
  
- Support of hospital in operational readiness and needs in line with service (ministry) needs.
- Represented the Ministry of State for Defence in various fora, both national and international on matters pertaining to laboratory services.
- Coordinated laboratory services within KDF.
- **Gained vital knowledge and experience in personnel management, logistic planning, budgeting and resource utilisation while in this appointment.**

2002-2004 Sept: Chief Resident Registrar, Department of Human Pathology, University of Nairobi.

- Participated in all academic activities of the department as was required by the University course curriculum.
- Trimming, processing of histopathology specimens
- Reporting of histopathology
- Clinical review of haematology patients in the teaching hospital (KNH).
- Performed Peripheral blood film smears, examination and reporting.
- Performed, examination and reporting of bone marrow aspirate and trephine biopsy specimens for evaluation of haematological conditions
- Preparation, culture and reporting of microbiological and parasitology specimens



- Preparation, evaluation, interpretation and reporting of immunology and clinical chemistry specimens.
- Performed clinical autopsies
- Teaching of undergraduate students.
- Involved in preparation and reporting of all specimens (surgical, FNA) presented to the department for evaluation.
- Reviewing and responding to interdepartmental consultations.
- Interdepartmental seminars.
- Prepare for main hospital grand rounds.
- Team leader of other registrars within the department.

1999-2001:                   Regimental Medical Officer, Moi Barracks Eldoret.

- In-charge of medical services within the barracks.
- Responsible for unit medical operational readiness in support of troops and unit objectives and mission.
- Daily attendance to unit's sick parade.
- Facilitate necessary referrals and linkage to other medical facilities as indicated.
- Participated in unit regimental operations/deployment.

1998-1999 Mar:            Medical Officer, Kericho District hospital.

- Performed duties of medical officer including running of outpatient, accident and emergency departments, emergency/elective surgeries.
- Review of inpatients

1997:                        Medical Officer, Internship- Moi Teaching and Referral hospital, Eldoret.

- Involved in both inpatient and outpatient care of patients
- Clerking and examination of patients
- Investigation (Laboratory, radiologic and imaging evaluation) of patients
- Diagnosis, admission and discharge of patients
- Review of patients with senior colleagues, consultants and professors.
- Involved in all training activities of the hospital as was required
- Successfully completed internship training.
- Secured Medical board registration thereafter (practice licence).

- 1996-1997: Attached to MSF Belgium, Dadaab Refugee camp.
- Was involved in basic healthcare provision to the refugee population and the local community.
  - Clerkship of patients
  - Basic laboratory investigations of patients
  - Diagnosis of cases
  - Referral of cases to higher level care centres

- 1991-1997: School of Medicine, University of Nairobi.
- Successfully completed the prescribed course for the degree of Bachelor of Medicine and Bachelor of Surgery (MB;ChB).

### CAPABILITIES

- Perform duties timely and to the optimal quality possible.
- Leadership of professionals to enable achievement of goals and objectives.
- Stimulate participation and motivation among colleagues and to allow them achieve the potential in meeting their goals and commitments.
- Provide spirit of trust and enthusiasm so as to enable harmony in business, academic and professional transactions.
- Handle administrative details in all situations to facilitate my superiors pursue their vision and higher decision making.
- Allow free lines of communication between colleagues and those under my command, leadership and direction so as to encourage free expression of thought and exchange of ideas and knowledge.
- Transparency and objectivity when dealing with ALL issues, academic, workplace, social et al.
- Impartiality, fairness, accountability and transparency.

### TRAINING

#### ACADEMIC/PROFESSIONAL

- 10/2011-01/2013: Trained in Clinical and Laboratory Haematology  
Christian Medical College, Vellore, INDIA. Senior Registrar,  
Department of Haematology,  
Christian Medical College, Vellore, INDIA.

Participated in evaluation and care of patients with wide spectrum of haematological conditions, both benign and malignant and/or acquired/congenital.

Had experience in following areas:

- Blood banking and transfusion medicine, Clinical pathology: routine laboratory haematology.
- HLA typing/ Immunohaematology
- Cytogenetics, FISH, Clinical genetics and Molecular diagnostics.
- Cell separation procedures (including mesenchymal and stem cell harvesting).
- Haemostasis: patient evaluation, screening testing, factor assays, platelet function tests (Full spectrum of coagulation disorders eg Haemophilia, von Willebrand disease, Glanzman thrombasthenia, Bernard Soulier syndrome etc).
- Flow cytometry (full spectrum) including leukaemia/lymphoma, PNH.
- Clinical evaluation of patients with haematological conditions including consults/referrals in Haematology wards and clinics.
- Administration of chemotherapy.
- Procedures: Bone Marrow Aspiration, Trephine biopsy, PICC line insertion.
- Bone marrow transplantation: autologous/allogeneic

2002-2004: Successfully completed course of Master of Medicine in Human Pathology, (MMed) University of Nairobi.

1991-1997: Successfully completed undergraduate course for the degree of Bachelor of Medicine and Bachelor of Surgery (MB, ChB), University of Nairobi.

1986-1989: Successfully completed secondary education, attained Kenya Certificate of Secondary Education (KCSE).

### MILITARY

1999: Successfully completed basic military training, passed out at rank of Captain.

2005: Rose up to rank of Major.

2007: Promoted to the rank of Lieutenant Colonel

2013: Promoted to rank of Colonel

Have undergone and participated in numerous joint military training exercises involving Kenyan, American and British troops.

## DUTIES

Consultant Haematologist, Defence Forces Memorial hospital.

- Provide highest quality professional clinical and laboratory haematology services to all deserving, in need and freely consent to my participation in their care.
- Comprehensive care of all patients with haematological conditions.
- Coordinate provision of haematology services and other medical needs within the KDF.
- Participate and oversee the management of all Haematological patients/clients within the KDF.
- Advisory role to colleagues and superior commanders on matters medical/haematological as may be called upon.
- Work within the command structure, Kenya Defence Forces to ensure preservation and maintenance of the health and fitness of troops in peacetime, operations and war.
- Coordinated all medical logistics in support of troops in operations and peacetime.
- Chief Pathologist, Consultant Pathologist Armed Forces Memorial hospital.
- Coordinated and implemented laboratory policies the Kenya Armed Forces Referral Hospital Laboratory.
- Provided guidance to formulation of sound laboratory practice within the military Hospital, and institutions.
- Ensure quality laboratory/clinical haematology service delivery to all patients and clients seen at the Armed Forces Memorial hospital.
- Formulated and implemented laboratory and clinical policy/guidelines/practices in diagnosis, monitoring, care and evaluation of laboratory support in HIV/AIDS, haematology patient care in the Kenya Defence Forces.

## **OTHER TRAINING UNDERTAKEN/CERTIFIED**

Humanitarian training and certification awarded in following areas;

- Senior Management Course (SMC), Kenya School of Government.
- Building Better Response (BBR), Humanitarian Academy- HAVARD UNIVERSITY.
- Core Humanitarian Certification
- Project Management for Development Professionals
- Public Health in Humanitarian Crises • Procurement and Logistics certificate
- Grant Seeking Essentials Certificate (Disaster Ready).
- Humanitarian Access (NRC).

Attained Good Clinical Practice (GCP) certification, Indiana University/IU Health.

## TEACHING

Currently a lecturer, school of Medicine, MMUST and Faculty member, International Cancer Institute.

I have/had teaching duties while working in the following places;

1. University of Nairobi: while training for my MMed programme I was involved in teaching, training and mentoring of junior registrars, medical officer interns, laboratory staff and other hospital staff.
2. Christian Medical College, INDIA: Involved in the teaching, training and mentorship of junior registrars in the department.
3. Defence Forces Memorial hospital: teaching, training and mentoring of medical officers, medical officer interns, laboratory staff and other hospital staff.
4. Kakamega County Referral and Teaching hospital: teaching, training, mentorship of medical officers, medical officer interns, medical students (MMUST), laboratory staff and other hospital staff.

## PUBLICATIONS

### 1. ACUTE T- CELL LYMPHOBLASTIC LYMPHOMA-A CASE REPORT. Dr.

O.J. Sumba and K. R. Sharma. *East African Medical Journal* Vol: 93 No. 11 November 2016, 632.

## RESEARCH

Currently involved in following research projects with the ICI, Eldoret;

1. Clinical research protocol GBT2104-131: A Randomized Double-blind, Placebo-controlled, Multicenter study to Assess the Safety and Efficacy of Inclacumab in participants with Sickle Cell Disease experiencing Vaso-occlusive Crises.
2. Clinical research protocol GBT2104-132:  
A Randomized, Double-blind, Placebo-controlled, Multicenter Study of a Single Dose of Inclacumab to Reduce Re-admission in Participants with Sickle Cell Disease and Recurrent Vaso-occlusive Crises
3. Clinical research protocol MO43110:  
A randomized multicenter, multinational, open-label phase iiib study to evaluate patient preference to out-of-hospital administration of ph fdc sc in participants with early or locally advanced/inflammatory her2-positive breast cancer
4. Clinical research protocol ITH-HPV-548 RD006031:  
HPV-based cervical cancer screening supported by the iThemba Life mobile solution in Kenya: a prospective cohort study

## INTERESTS

1. Haematology: Haemostasis, Transfusion, Haematoncology and Transplantation medicine.
2. Molecular diagnostics and cancer research
3. Public health
4. To be part of the effort to improve quality of human life through dedicated quality service delivery.
5. To work on the national, international arena to providing better healthcare and quality of life to those in need.

## PROFESSIONAL ASSOCIATIONS MEMBERSHIP

Kenya Association of Clinical Pathologists (KACP).

Kenya Society for Haematology and Oncology (KESHO).

American Society of Hematology (ASH)

American Society of Clinical Oncology (ASCO)

European Society of Medical Oncology (ESMO)

Association of Pathologists of East Central and Southern Africa (APECSA)

African Society of Laboratory Medicine (ASML)

## REFEREES

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