


I. BIODATA

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III. BRIEF PROFILE

I am Professor of Paediatrics and Child Health with specialization in Newborn Medicine. I presently hold several high-level portfolios in several institutions. At the University of Nairobi (where I am full time employee) I am Dean, School of Medicine (and in 2017-2018 doubled up as Acting Principal, College of Health Sciences). I also support the Ministry of Health on several national committees in various areas of child health. I have remained active in the Kenya Paediatric Association where after serving as National Chairman for 11 years was retained as adviser on research projects. In the international arena I have been active in the Child Health Platform including; the World Health Organization's Strategic Advisory Group of Experts (SAGE) in Immunization as well as Maternal and Newborn Health. International organizations like the Partnership for Appropriate Technology in Health (PATH), Bill & Melinda Gates Foundation and Global Vaccine Alliance (GAVI) frequently seek my services as Scientific Advisory Committee Faculty in the area of Childhood Vaccines and Immunization. I also spend energy in the area of childhood nutrition. I have, nevertheless, remained highly motivated in research where my main themes are Health Systems Research and Outcomes of High Risk Newborns. Indeed, my Doctorate was obtained in the latter. I am presently developing proposal to evaluate the relationship between devolution of health service provision in Kenya and immunization performance. This will be towards a PHD in global health to be undertaken in the University of Geneva. I can summarize my life as that of a most committed teacher/mentor, relentless researcher/author, selfless leader and outstanding scholar with considerable international reach. I am a most versatile academic and health practitioner.

IV. EDUCATIONAL BACKGROUND

IV.1 CERTIFICATES AND DEGREES

	YEAR	QUALIFICATION	INSTITUTION
1	2007	Diploma in Children & Environmental Health (DCEH)	International Pediatric Association
2	2006	PHD (Paediatrics) Thesis; <i>Outcomes of two-year-old Low Birth Weight Children at 2 years age and early predictors. Produced 4 publications and numerous conference papers</i>	University of Nairobi
3	1993	Fellow of Neonatal Intensive Care (FNIC) Thesis on <i>Calcium supplementation on sick Very Low Birth Weight Newborns. Led to change of guidelines</i>	Monash Medical Centre, Australia
4	1990	Masters in Medicine (MMED), Paediatrics Thesis; <i>Factors associated with growth faltering at Mathare North Clinic, Nairobi</i>	University of Nairobi
5	1984	Bachelor of Medicine & Bachelor of Surgery (MBCHB)	University of Nairobi
6	1977	East African Advanced Certificate of Education (EAACE)	Kericho High School
7	1975	East African Certificate of Education (EACE)	Butula Secondary
8	1971	Certificate of Primary Education (CPE)	Nabakholo Primary

IV.2 SHORT COURSES

1. **2012; Contemporary issues in vaccines.**

Provided by Glaxo Smith Kline in Brussels, Belgium. This short course covers current issues in immunology and public health issues regarding vaccines and immunizations

2. **2011; Problem Based Learning.**

University of Nairobi provided by faculty from St John's Christian University, Bangalore, India. Course included pedagogy and andragogy.

3. **2010; Pedagogy and Andragogy.**

University of Nairobi's School of Education, College of Education and External Studies. Learned the principles of adult training.

4. **2008; Updates on Advanced Perinatal and Neonatal Medicine.**

Ipokrates group of the European Perinatal and Neonatal Societies. Four days of intensive update in perinatal/neonatal medicine, South Africa.

5. **2007; Advanced Advance Paediatric Life Support Instructors Course.**

This led to me being granted the trainers certificate. This has been updated every 3 years since

6. **2006; Advances in neonatology.**

James Cook Hospital/Medical School in Middleborough, UK. This covered contemporary issues in intensive care of newborns.

7. **2005; Advanced Paediatric Life Support Providers Course (APLS).**

I was then qualified as a provider.

V. HONORS

V.1. ACADEMIC

1. **2008; Nestle Nutrition Institute Africa award.**

For outstanding contribution to teaching and research in Paediatric Nutrition in the African region. The work rewarded included my PHD research which evaluated the impact of early nutrition and subsequent outcomes of babies born Very Low Birth Weight and continuing health care worker (HCW) education on feeding the vulnerable infants.

2. **1993; Outstanding Fellowship Student**

In newborn medicine at the Monash Medical Centre. This following my quick learning and rapid acquisition of skills in the specialty. The recognition also honored my provision mentorship for Monash University medical students as well residents in Paediatric.

3. **1990; Best overall Master of Medicine student in Paediatrics** at the University of Nairobi. This was drawn from overall performance in academic, research and leadership. I obtained my scholarship to study newborn medicine in Australia before completing the MMED program

4. **1977; Outstanding East African Advanced Certificate of Education student.**

In Kericho High School. This covered both formative and summative components of performance. The academic accolades were in Chemistry and Physics where I scored the top marks.

V.2; DISTINGUISHED SERVICE

1. **2018;** Nominated for the Prince Mahhol award for contribution to global child health
2. **2009; the Republic of Kenya Head of State Commendation.**
Elder of The Order of the Burning Spear (EBS). This was in recognition of my contribution to medical education and key issues regarding Child Health in Kenya and beyond. As an educator, I was the first Paediatrician to obtain a doctorate in a clinical area in the University of Nairobi and one of the pioneers in the area of neonatal intensive care. My role in child health advocacy including 10 years as National Chair of the Kenya Paediatric Association (KPA), regular constructive engagement with the Ministry of Health and global prominence on child health arena were contributing factors.
3. **2007 and 2008; Marquis Who is Who.**
This was in the scientific world listing. This honor rewards global prominence in an area of specialty.

VI. POSITIONS HELD

VI: 1 CURRENT POSITIONS

1. Dean, School of Medicine, University of Nairobi.

I am responsible for supervising innovative academic programs in all the School's 14 departments. The school has over 3000 and 360 students and academic staff respectively. The school offers 5 bachelors and over 30 graduate causes at masters, fellowship and doctorate levels.

Specific responsibilities include

- i. Leading the School Management Team consisting of the 14 department chairs, 8 thematic unit heads and chairs of statutory school committees (curriculum, examinations, mentorship and social welfare. The school management team hold monthly meetings under my chairmanship.
- ii. Leading the school academic board consisting of all teaching members of staff together with a section of student leaders.
- iii. Supervise all curriculum in the school ensuring that new ones keep flowing as the environment demands while old ones are revised as per policy. These are finally vetted by the school academic board before forwarding to the college academic board.
- iv. Implementing all the stages of the curriculum delivery from teaching through examination to graduation. As dean I was the chief examiner of the school.
- v. Sitting on all committees stipulated by the university at both college (management, academic and others) and university level (senate and relevant subcommittees)

- vi. Implement the school strategic plan together with the unit heads under the office of dean.
- vii. Provide advisory inputs and leadership of research projects in the school. The school has some the largest research portfolio in the University of Nairobi amounting to more than 1 billion Kenya shillings in a typical year.
- viii. I also provide administrative support for the School. I commenced my appointment as Dean in 2014 and ends on 11 October 2018.

2. Professor of Paediatrics, University of Nairobi.

My duties include all those indicated for my previous position of Associate Professor plus enhanced mentorship of younger faculty and recent graduates towards enrollment into doctorate degrees. I rose to the position of full Professor in the year 2012

3. Consultant neonatologist at the Kenyatta National Hospital.

I provide clinical services at Kenyatta National Hospital, the national referral and legally mandated teaching hospital for the University of Nairobi. This is a 60-bed unit (6 of which are intensive care level). I also train and mentor students and junior health care workers who pass through the facility. My role includes helping manage post-discharge children on follow-up.

4. Chief Research Adviser; KEPRECON.

This is the research arm of the Kenya Paediatric Association. This organization is predominantly involved in child health interventional projects implementation and Operational Research that goes with it.

KEPRECON activities I oversee include;

i. Health Care Worker (HCW) capacity building through training.

The area covered include HIV/AIDS care, management of malnutrition, emergency obstetric care, neonatal care, emergency triage and treatment (ETAT) of sick children, grant writing for health practitioners and leadership in health.

ii. Policy and practice guideline development.

We have participated in production of training manuals, practice guidelines and easy to use handbooks for frontline workers in health.

iii. Research activities.

The research portfolio includes drug trials and operational research around existing interventions.

iv. Advocacy for children.

Alongside the Kenya Paediatric Association (KPA), we have continued to foster increased awareness of the plight of children in Kenya and indeed the African region. We ensure presence in all key activities (initiating some) aimed at bringing to the table issues child health. Childhood immunization is one such.

v. Development of guidelines and practice booklets

KEPRECON together KPA have developed many practice guidelines and manuals in various areas of paediatrics. These include; paediatric HIV/AIDS care, Care of the newborn at primary level providers, paediatric protocols.

VI: 2 PREVIOUS POSITIONS

1. 2017-2018; Acting Principal College of Health Sciences.

Here I was responsible for the academic and administrative leadership of the college consisting of the Schools of Medicine, Pharmacy, Dental Sciences, Nursing Sciences and Public Health. The other units in the college are; the University of Nairobi Institute of Tropical Medicine and Infectious Diseases, KAVI-Clinical Trials Institute and the East African Kidney Institute.

2. 2012-2017 Adjunct Professor of Newborn Medicine, Aga Khan University.

Duties also include providing leadership of the division of newborn services. I led the process of developing the Perinatal and Neonatal Medicine curriculum. This program is due for deployment in 2018

3. 2008- 2012; Associate Professor. DOP, University of Nairobi.

My core duties were teaching year 4 MBCHB and MMED students in the Departments of Paediatrics and Child Health. I also provided mentorship to all students in the Department of Paeditrics as well as research supervision for the MMED students. In addition, I provided clinical services as a consultant neonatologist for the Kenyatta National Hospital. I took the leading role in the initial work towards the development of the Neonatal and Perinatal Medicine Curriculum. As the first Doctorate holder in the department I was responsible for mentoring younger colleagues to develop interest and pursue the same.

4. 2007- 2012: Honorary Professor. Aga Khan University, Nairobi.

I provided teaching, clinical services and developed their curriculum.

5. 2002-2008: Senior Lecturer. DOP, University of Nairobi.

My core duties were; teaching, clinical input in Kenyatta National Hospital and research. Other duties were the coordination of postgraduate studies and undergraduate clinical examinations

6. 1994-2002: Lecturer, DOP, University of Nairobi.

My core duties included; teaching and clinical input in Kenyatta National Hospital and research. Other duties were the coordination of postgraduate studies and clinical meetings. At one stage I was involved in handling elective students and departmental social programs

7. 1991-1993: Neonatal Fellow, Monash Medical Centre in, Australia.

This led to the award of the Fellowship in Neonatal Medicine. In the course of my training, I provided tutorials to undergraduate students in Monash University and was mentor to several Fellowship of the Royal Australian College of Paediatrics trainees during their neonatal intensive care rotation at the Monash Medical Centre. I also participated in the newborn emergency transport services in the state of Victoria, Australia and was certified as a newborn intensive care transport provider.

8. 1990-1991: Senior Registrar, Kenyatta National Hospital.

This was part of my induction for the neonatal fellowship program in Australia. I continued providing tuition to MBCHB students and commenced my involvement in formal training of MMED students for the DOP. I also supported post-graduate students in the development of their research projects.

9. 1987-1990: Resident. At the University of Nairobi's KNH campus.

This led to the award of the degree of Master of Medicine in Paediatrics and Child Health by the University of Nairobi. I held the position of chief resident, responsible for coordinating all Residents activities.

10. 1986-1987: Visiting Medical Officer Kapkatet Cottage Hospital.

While working at Kericho District Hospital, the only Medical Officer at a smaller Hospital (Kapkatet Cottage) left for further studies.

I volunteered to provide services to this facility through weekly visits for patient care while awaiting a replacement. I also provided round the clock phone cover to assist the primary providers in this facility in important clinical decision making.

11. 1985-1987: Medical Officer, Kericho District Hospital.

This undertaking exposed to a wide range of clinical care including emergency care of all patients, trauma surgery, obstetrics and forensic medicine. As a medical officer I was required to participate in medico-legal cases within the district. In addition to undertaking the general multi-disciplinary duties in the hospital, I focused much of this time in the children's ward under the supervision of the district paediatrician.

12. 1984-1985: House Officer, Machakos General Hospital.

I completed the statutory 12 months of supervised internship as required by the Medical Practitioners and Dentists Board of Kenya. I spent 3 months each in the Departments of Medicine, Surgery, Paediatrics and Obstetrics & Gynaecology. In each department I learned the most essential skills required to save lives when supervision is not available.

13. 1977-1981: Early Work Engagements

During the period between high school and commencement of clinical coursework at the University I undertook some short-time employment engagements. Technical Clerk at International Business Machines (IBM) Nairobi, Stores Clerk an Cooper Motors Cooperation (CMS) Nairobi and temporary teacher at Nambale Primary School Busia.

VII. OTHER ACADEMIC RESPONSIBILITIES

VII.1: THE UNIVERSITY OF NAIROBI

1. 2014-2018; College of Health Sciences Cohesion Committee.

This group was responsible for Streamlining the Kenya National Cohesion and National Values espoused in article 10 of the 2010 constitution. This committee helped domicile the relevant guiding principles.

2. 2015-2018. College representative on CESSP board;

The Board of Management for the Centre for Self Supporting Programs (CESSP). This is the unit responsible for collecting and managing all fees from self-supporting students. I also serve on the audit sub-committee.

3. 2014-2015 Represented of the College of Health Sciences on UNES Board;

The Board of Management for the University of Nairobi Enterprises (UNES). The mandate of this unit encompassed all consultancies of the UON including collection and management of academic revenue (before formation of CESSP).

4. 2014-2018. Member of the Deans Committee.

This senate appointed committee chaired by the Deputy Vice Chancellor Academic Affairs is responsible for all things academic in the University. I also served in the subcommittee responsible for setting guidelines for credit transfer of students joining the University from other institutions

5. 2015; Senate ad hoc committee to review CHSS structure

The committee was charged to advise the senate on strengthening the administrative structure of the office of the Principal College of Humanities and Social Sciences (CHSS). The recommendations were fully implemented.

6. 2016; Senate ad hoc committee for streamlining academic ranks

This committee was charged with developing guidelines on descriptions of additional teaching positions. Those identified; visiting, research, emeritus and honorary teaching staff.

7. 2014-2018; CHS Anti-Corruption Committee

This committee is responsible for streamlining integrity issues in the college. I was chaired the committee in 2017-2018 while serving as acting college principal.

8. 2014-2016; Central Tender Committee of the UON.

The committee was responsible for evaluating and approving tenders whose value is over KSH 500,000 for the whole university.

9. 2014-2018; Senate of the UON.

In addition general attendance, I served on the following sub-committees; streamlining the Students Organization University of Nairobi constitution, Post-retirement contract appointments, Realignment of the promotion criteria for academic staff and re-organization of terminologies of senior teaching and research staff in the university.

10. 2014-2018; Chair of the School of Medicine Academic Board.

The board is constituted by all academic members of the school together with student leaders and key administrative staff. The duties of the board include curriculum evaluation, determination of teaching programs, examination results ratification as well as any other academic issues in the school.

11. 2014-2018; Chair of the School of Medicine Management Board.

This group consists of all the department chairs, thematic unit heads and leaders of key school committees. The committee is responsible for academic and to some extent administrative organization of the school.

12. 2014-2018; College of Health Sciences Management Board

The board is responsible for college-wide administrative issues, I Chaired the committee in 2017-2018 while serving as acting principal College of Health Sciences

13. 2014-2018; College of Health Sciences Academic Board

This board is responsible for college-wide academic issues. I Chaired the committee in 2017-2018 while serving as acting principal College of Health Sciences

14. 2016-2017; Senate Staff Workload Subcommittee

The committee chaired by the Deputy Vice Chancellor Research-Production and Extension was charged with and developed tools for operationalization of the Commission for University Education teaching workload guidelines

14. 2016-2017; Chair of Senate Subcommittee on admission processes.

The restructuring of the existing process came up with the now robust online application platform which allows new students to make applications round the year without any physical visit to the campus.

15. 2016; Senate committee on Post-Retirement Contracts

The committee was appointed to develop a policy on appointments of teaching staff who seek to work after attaining the statutory retirement age. The policy was completed and presently in use.

16. 2016-2017; Senate ad hoc committee on students' organization.

The committee revised the constitution in line with the transition of the then Students Organization University of Nairobi (SONU) to the present University of Nairobi Students Association (UNSA).

17. 2015-2016; Task force on Restructuring of Procurement Department.

The committee was constituted to develop a model reorganizing the structure and functioning of the Procurement Department at The University of Nairobi.

18. 2015-2016; Committee on revised academic staff promotion criteria

The committee streamlined the promotion criteria for academic staff at the University of Nairobi in line with the provisions of the Commission for University Education

19. 2008-2012; Chair of the departmental examination committee.

This involved organizing and overseeing both progressive and end of year examinations consisting of setting, moderation, administration, marking and posting for discussion at the school board. I commenced the transition of the examination methodology to the current style exploring skills rather than knowledge

20. 2008-2009; Chair of the school's examination review committee.

The committee restructured the entire examination system for the School of Medicine. Key points including, introduction of the Objective Structured Clinical Examination (OSCE) in place of the traditional long case/short case systems and establishment of uniform and updated systems of setting, conducting and marking written examinations.

21. 2007-2008; Coordinator of the departmental Post-Graduate program

This office was charged with supervising the entire program of graduate studies ranging from student welfare, curriculum delivery, research and examinations.

22. 2005; CHS Strategic Planning Committees

The committee produced the first college strategic plan cascaded from the main University of Nairobi document

23. 2005; School and Departmental Strategic Planning Committees.

The committee produced the first cascaded strategic plan for the school in synchrony with the ones for the whole University and College respectively. I was Secretary of the departmental committee.

24. 2004-2005; Secretary to the CHS Committee on academic staff promotion.

I was secretary to this committee which explored the changing arena in terminal degree requirements for promotion in the CHS. A completed report was submitted to the Principal of the time.

25. 2002-2008; Coordinator of departmental clinical examinations.

This was the initial phase in the process of upgrading the clinical examination methodologies towards the Objective Structured Clinical Examination (OSCE). With the increase in student numbers the office was charged with streamlining the clinical examination processes protecting quality and ensuring student handling efficiency.

26. 2002-2008; Vice Chair, Departmental Income Generating Activities.

This committee oversaw the handling of funds earned from the laboratory and other activities in the department.

27. 1994-2003; Coordinator of the Departmental post-graduate program.

Appointed soon after initial employment, this responsibility involved organizing the entire post-graduate program.

VII.2: ACTIVITIES IN OTHER UNIVERSITIES

1. **2011- 2016; Doctoral Student Mentor at the Great Lakes University,** Kisumu, Kenya. This volunteer position involved supervision of PHD students in fields relevant to my expertise.
2. **2011-2013; External Examiner for MMED program at the Muhimbili, Tanzania.** I assisted towards the introduction of the OSCE style of clinical evaluation. The duties included thesis marking, moderation of written exams and participation in the practical exams on site.
3. **2010-2012; External Examiner for MBCHB and MMED at Makerere,** Uganda. The duties included moderation of written exams and participation in the practical exams on site and MMED thesis marking.
4. **2009-2011; External Examiner for Master of Public Health (MPH) at** Kenyatta University School of Public Health. The duties involved marking the theses.
5. **2009-2011; External examiner for MBCHB in the Department of Paediatrics,** at Kenyatta University. The duties included moderation of written exams and participation in the practical exams on site
6. **2007-2008; External examiner for MMED, Moi University,** Department of Child Health and Paediatrics, 2007-2008. The duties included thesis marking, moderation of written exams and participation in the practical exams on site.
7. **2004-2008; External examiner for Undergraduate students,** Moi University, Department of Child Health and Paediatrics. The duties included moderation of written and conducting practical exams on site

VII.3; EDITORSHIP IN SCIENTIFIC JOURNALS

1. 2014----- Reviewer for the Lancet
2. 2010-----; Reviewer for BMC online Journal
3. 2006-2014; Reviewer of the African Health Sciences.
4. 1994-----; Reviewer of the East African Medical Journal. Between 2010-2015 I was on the editorial board.
5. 2007-2012; Member of the editorial board of Advances in Vaccines.

VII.4; IN-SERVICE TRAINING PROVISION

1. 2013-2016; Contemporary issues in immunizations and vaccinology. A Glaxo Smith Kline (GSK) sponsored short course
2. 2013-----; Trainer of providers of Emergency Triage Assessment and Treatment plus (ETAT⁺)
3. 2006-----; Neonatal Advanced Life Support (NALS).
4. 2006-----; Paediatric Advanced Life Support (PALS).
5. 2006-----; European Paediatric Advanced Life Support (EPALS).

VIII. MEMBERSHIP OF TECHNICAL COMMITTEES

VIII: 1. LOCAL

1. **2016---; Joint MOH and Religious Organization Committee**
Groups committee for overseeing testing safety of vaccines intended for use in non-routine programs.
2. **2016--; National Maternal and Perinatal Death Surveillance & Response** Abbreviated as MPDSR, the Committee is responsible for tracking all perinatal deaths at Kenya's health facility
3. **2016; Chair, National tOPV- bOPV Switch Validation committee.**
This is an additional mandate of the National Polio Certification Committee created by advice of the World Health Organization
4. **2015-2018; National Bioethics Committee (NBC).**
This is under the National commission for Science, Technology and Innovation (NACOSTI). The committee oversees the functions/performance of individual institutional ethics and research committee in Kenya.
5. **2014. Co-Chair, Joint Maternal Tetanus Vaccination Committee.**
The group was constituted by The Ministry of Health to answer to complaints by the Church Medical Commission (of the Catholics) regarding safety of tetanus vaccines used in campaigns for elimination of maternal and neonatal tetanus. The matter was resolved with formation of a standing committee to oversee future activities.

6. **2014- Chair, Research and Ethics Committee, Strathmore University.**
This was the first fully electronic committee delivering these services in Kenya.

7. **2014---;Chair, Kenya National Immunization Technical Advisory Group** Abbreviated as KENITAG, these committee advises the Ministry of Health in all matters pertaining to immunizations in Kenya.

8. **2014----;Chair, Kenya National Polio Certification Committee**
This committee is responsible for verifying and reporting the status of Polio Eradication in Kenya. The report flows upwards to the African Regional Certification Committee.

9. **2010-2012. Chair of the technical group for immunization policy.**
The group developed and published the first immunization policy document for Kenya under the auspices of the Ministry of Public Health & Sanitation.

10. **2010-2011; Chair of the NITAG planning group.**
This group developed the terms of reference for the proposed National Immunization Technical Advisory Group (NITAG).

11. **2006-2013; National AIDS Technical Advisory/Steering Group.**
Formed by the National Sexually Transmitted Diseases Coordinating Program (NAS COP) the committee coordinated the large number of stakeholders and donors who were working on HIV/AIDS activities within Kenya. I represented the paediatric care groups

12. 2006-2012; Inter Agency Coordinating Committee (ICC).

I represented the Kenya Paediatric Association and other organizations involved in child health advocacy.

13. 2007-2010; Pumwani Maternity Hospital Management Board.

This was a statutory appointment by the ministry of local government. The board (public oversight) was responsible for overseeing the functions of the Hospital for public good. My responsibilities included chairing the finance committee.

14. 2005-2006; Medical Advisory Board of Nairobi Hospital.

The committee is responsible for overseeing quality of clinical care issues and undertaking regular hospital performance and individual doctor clinical audits. Included in the responsibilities were; evaluating and credentialing applicants for admission rights, participating in professional conflict resolution and complaints investigation regarding clinical care.

15. 2001-2004; Medical Advisory Board, Gertrude's Children's Hospital.

The committee is responsible for overseeing quality of clinical care issues and undertaking regular clinical audits. Included in the responsibilities were; evaluating and credentialing applicants for admission rights, participating in professional conflict resolution and complaints investigation regarding clinical care.

16. 2001-2003; Chair, the Medical Advisory Board of Mater Hospital.

The committee is responsible for overseeing quality of clinical care issues and undertaking regular clinical audits. Included in the responsibilities were; evaluating and credentialing applicants for admission rights.

17. 2003----Chair Department of Paediatrics, Avenue Hospital

I am responsible for advising the institution in quality issues regarding care of children in all the separate areas.

VIII.4. INTERNATIONAL

1. 2017-2019; Chair, Data Safety Management Board (DSMB)

The Fractional Yellow fever trial by MSN France. This is a clinical trial aimed to establish the efficacy of lower dose Yellow Fever Vaccine (used in combating outbreaks) for possible use in routine immunization.

2. 2015-2018; Scientific Advisory Committee, a committee (SAC)

The PATH₃ trial on whole cell pneumococcal vaccine efficacy trial. This will probably overcome some of the inherent limitations of the conjugate vaccines presently in the market

3. 2014-2020; Chair, Network for Education and Support in

Immunization Abbreviated as NESI this is a global educational group which provides advice on strengthening Immunization Programs through trainings.

4. 2013-2016; Task Force on Immunizations

Renamed Technical Advisory Group (TAG) for the WHO Africa region, this 15-member group advises the WHO Afro (and through them National Governments) on all vaccine and immunization issues.

5. 2013-2020; WHO's Strategic Advisory Group of Experts (SAGE)

This 15 Board Member global organization advises WHO Geneva on all immunization issues of global importance.

In addition to the general membership I am the point person for several subcommittees/working groups; Integration of immunization services with other activities, the Joint Technical Expert Group, JTEG, (Strategic Advisory Group of Experts (SAGE) and Malaria Policy Advisory Committee (MPAC)) as well as being lead member of the Malaria and Ebola vaccines working groups. I also serve on the task force on Respiratory Syncytial Virus and other probable Maternal Vaccinations.

6. 2013-2015; Scientific Advisory Committee

PATH¶ (Program of Appropriate Technology for Health) Whole Cell Vaccine (wSP). The committee oversaw the development of a cheaper Pneumococcal Vaccines

7. 2013-2016; Technical Advisory Group (TAG) on measles.

This was a WHO Africa region group which advised WHO on measles elimination strategies for the Africa region

8. 2013-2014; WHO ad hoc committee developing guidelines.

This was in respect to management of possibly severe bacterial severe infections (PSBI) in newborns and young infants when referral is refused or not possible.

9. 2011- 2012; Program for reduction of Pneumonia.

Served as adviser of the Bill and Melinda Gates Foundation¶ program for reduction of Childhood Pneumonia. We helped in the development of the pneumonia refresh strategy.

10. 2011-2013; Member of the Data Safety Monitoring Board (DSMB)

This DSMB oversaw the WHO neonatal sepsis study titled "Simplified Regimens for Management of Possible Serious Bacterial Infections in Neonates and Young Infants for Use in Outpatient and Community Settings: A multi-centre Randomized Controlled Trial in Africa"

11. 2011; GAVI Alliance's vaccine prioritization committee.

I was a member of the committee evaluating Yellow fever, Measles and Meningitis A vaccines. The committee advised on the logical sequencing of the Introduction of These vaccines in national Programs.

12. 2009; WHO Newborn Resuscitation Advisory.

Temporary Advisor. I participated in a workshop whose output led to the production of the 2012 WHO Guidelines on Basic Newborn Resuscitation. The product was the current "helping babies breathe" guidelines

13. 2008-2015; the Nestle Nutrition Institute Africa.

I am the board member representing the Eastern Africa and Equatorial Region. The group aims to improve knowledge and practice of human nutrition in Africa through educational and research enhancement.

14. 2006; Serotype selection for conjugate pneumococcal vaccines

I served as temporary WHO advisor on immunizations specifically addressing serotype selection for pneumococcal vaccines for use in the global arena.

15. 2004-2007; Children and Environmental Health

I served as temporary WHO advisor on children and environmental health. Participated in health worker training programs in Kenya and Botswana

IX. MEMBERSHIP TO SCIENTIFIC SOCIETIES AND GROUPS

1. 2013-2016; standing committee of the International Paediatric

Association. This is a global organization whose membership is made up of National and Regional Paediatric Societies and Associations as well as other groups working in the area of child health.

2. 2010-----; Eastern African Paediatric Association.

This is a federation of the Paediatric Associations and Societies of Kenya, Uganda, Tanzania, Rwanda, Burundi, Ethiopia, Eritrea, Sudan, South Sudan, Djibouti and The Democratic Republic of Congo. I am the inaugural President. The society aims to strengthen professional linkages within these countries.

3. 2009---; African Vaccine Preventable Diseases Network.

This is a Pan-African group of scientists focused on providing educational material on childhood immunizations on the continent.

4. 2009-2014; Global Rotavirus Experts Academy.

This body focused on disseminating scientific knowledge on rotavirus disease and its prevention. We developed curricula for use by other health workers in Continuing Professional Development activities

5. **2008-2020; International Society for Tropical Paediatrics.**

This is an umbrella organization of National Paediatric Societies in over 60 tropical countries. 2008-11, Standing Committee, 2011-14, President Elect, 2014-17 as President and presently serving as past president till 2020. In 2014 I hosted a very successful International Congress of Tropical Paediatrics (ICTP 10) in Nairobi, Kenya

6. **2002-2012; Kenya Paediatric Association.**

National Chairman. This period the revitalization and rapid evolution of the association from one focusing largely on annual conferencing to the current robust one involved in many areas of child health such as advocacy, program development and implementation, research and national policy issues.

7. **2009-2013; the World Association of Perinatal Medicine (WAPM).**

I served as committee member representing Africa. This is a body of health workers whose goal is improvement of reproductive maternal and newborn health in the world

8. **2006-2012. the Global Pneumococcal Awareness Council of Experts.**

A body dedicated to increasing awareness and up take of Pneumococcal Vaccines in developing countries. I Participated in disseminating advocacy and solicitation messages to a wide range of audiences including committees of the USA senate, European Parliament and the British House of Commons

9. **2006-2012; The Kenya Appropriate Antibiotic Use Initiative.**

I was the Vice Chairman. This group consisting of health workers from all disciplines aims to disseminate knowledge on rational use of antibiotics.

10. 2003-2007; International Paediatric Association's Sub-Committee.

I served on the Children and Environmental Health Committee which spearheads advocacy and knowledge dissemination of the impact of environmental degradation on child health.

X. RESEARCH WORK AND GRANTS

X.1: COMPLETED GRANTS

16. 2010- 2015 PRIME Kenya MNCH-Linked project

This was a collaborative project of UON and University of Washington, Seattle. I was initially an aim leader but currently serve on the board since assuming the position of Dean. 2013-2015 Scaling up of Diarrhea Treatment in Kenya in Kenya through Enhance training of HCWs. Project funded by Clinton Health Access Initiative (CHAI). Funding level, 650,000 USD. It is hosted at the Kenya Paediatric Research Consortium.

17. 2011-2014; Partnership for Advanced Clinical Education [PACE]

This was a collaboration between the University of Maryland and The Kenya Paediatric Research Consortium. I was the Principal Investigator. Total value 1,000,000USD. The scope was capacity building of human resources in the care of children with HIV/AIDS

18. 2011-2014; UON-Welcome Trust Project

Abbreviated as SIRCLE this was a Health Services and Implementation Research and Clinical Excellence Collaboration funded by The Consortium for National Health Research.

The project is a partnership between The University of Nairobi College of Health Sciences, KEMRI-Welcome Trust and The Ministry of Health Services. I am the Co-Principal Investigator. The first phase of the project takes place between 2011 and 2013. I am the Co-PI. The project is valued at about 660,000 USD

19. 2008-2010; Newborn Advanced Life Support [NALS] Training

This project supported by global links United Kingdom was implemented through the KEPRECON. It covered several regions in Kenya. I was the project leader

20. 2002-2010; inpatient pediatric care at district hospital level.

A collaborative study by the Departments of pediatrics of the universities of Nairobi and Moi and Welcome Foundation. The research group formed by this grant still works together producing publications regularly.

21. 2006-2011; Paediatric HIV/AIDS care

This aimed to enhance the role of mentorship in promoting uptake of care of children with HIV/AIDS in Kenya. A CDC funded project implemented by the Kenya Paediatric Association. I was the Principal Investigator. Total value was 1,800,000 USD

22. 1992-1993; Intravenous Calcium Supplementation in Preterm infants.

This work was done in the Monash Medical Centre Neonatal Intensive Care Unit in Australia. This project formed part of the newborn medicine fellowship program.

X.2: ON-GOING GRANTS

1. **2018-2021; Scaling up the treatment of possibly severe bacterial infection** Abbreviated as PSBI the project introduces the new guidelines of care of such newborns at primary care level. It is supported by the Population Council (USA) through the Kenya Paediatric Research Consortium

2. **2017-2021; ACTION trial;**
Randomized controlled trial on the use of antenatal corticosteroids for prevention of neonatal respiratory illness. Funded by WHO through University of Nairobi. I am a co- Principal Investigator.

3. **2017-2020; Scaling up Neonatal and Emergency Paediatric services**
This UNICEF sponsored project explores the use of health worker training and introduction of cascaded primary care guidelines for improved care. The project is implemented by the Kenya Paediatric Research Consortium and I am the Principal Investigator.

4. **2015-2021; Partnership for health research and training (PHERT) in Kenya.**
A University of Nairobi Project training grant sponsored by National Institute of Health (NIH) USA. I provide mentorship of the trainees.

5. **2009-2020; Regional Emergency Triage and Treatment [ETAT+] training**
Royal College of Paediatrics and Child Health, UK supports this program which offers training in the wider East Africa Region

XI. INDIVIDUAL CONSULTANCIES

XI.1. International Monitoring Board, IMB (2018)

The IMB is a body created by the Global Polio Eradication Initiative to monitor the programs worldwide. I was appointed by this group as part of a team charged with evaluating the programs of the remaining polio endemic countries; Afghanistan, Pakistan and Nigeria. We made an in-depth evaluation of the programs in aspects including Governance, political influences, finances and the operational environment. We aimed to establish if the programs are fit for the purpose of polio eradication and if not suggest some appropriate re-directions. The outputs of the project were a full report alongside several presentations to the relevant stakeholders

XI.2. Merck's Micronutrient Review

This consultancy was a desk review of literature aimed at evaluating the role of nutrition and newborn screening in improving neurocognitive development in high risk newborns. I was the leader of this team which consisted of several senior paediatricians, Nutrition experts a scientific writer and members of industry.

XII. DISSERTATIONS AND THESES SUPERVISED

XI.1: MASTER OF MEDICINE/PUBLIC HEALTH

XI.1.1: COMPLETED MASTERS DISSERTATIONS

1. 1994. Pattern of Childhood Accidents at Kenyatta National Hospital by Dr. Makewa D. Supervisors; **Fred Were**, Daniel Njai
2. 1996. Knowledge attitudes and practices of mothers and health workers Towards postnatal umbilical cord care in Nairobi, slum populations by Obimbo E. Supervisors; Musoke RN, **Fred Were**.
3. 1997. Audit of the management of neonatal infections at Kenyatta National Hospital, Dr RO Mukhwana. Supervisors; **Fred Were**, R Musoke
4. 1999. Needle sticks injuries in public hospitals treating children. Dr Gisore O P. Supervisors; **Fred Were**, Aggrey Wasunna
5. 1999. Hyponatremia in sick preterm babies at KNH Dr Ndwiga Daisy. **Fred Were**, Rachel Musoke
6. 2001. Early neonatal infection among out-born babies at Kenyatta National Hospital. Dr. Lusweti B. **Fred Were**, Aggrey Wasunna
7. 2001. Atypical pneumonia in newborns with late neonatal infection at Kenyatta National Hospital. Dr Govedi FA. **Fred Were**, J Wambani

8. 2001. Neonatal Hypothyroidism in infants born at Kenyatta National Hospital, Dr Maghasi M. **Fred Were**, Rachel Musoke
9. 2003. Factors associated with measles resurgence in Nairobi, Dr Muiruri P
10. 2003. Factors determining compliance of secondary prevention of Rheumatic Heart Disease, Dr Omingo A. Supervisors; **Fred Were**, Christine Jowi
11. 2004. Cholestatic jaundice in newborns at Kenyatta National Hospital, Dr Ngwatu P. Supervisors; **Fred Were**, Rose Kamenwa
12. 2004. Factors affecting Glycaemic control among children in diabetic clinics, Dr Ngwiri P. Supervisors; **Fred Were**, Paul Ngugi
13. 2004. Zinc status in Low Birth Weight infants at Kenyatta National Hospital, Dr. Tsikhutsu Issac, Supervisors; **Fred Were**, A Wasunna
14. 2004. Knowledge and practices of health workers on the management of pentavalent vaccine in Nairobi. MPH, Kenyatta University, Ms Agunda S. Supervisors; **Fred Were**,
15. 2005. Metabolic complications among Large for Gestational Age (LGA) infants at KNH, Dr Bandika J. Supervisors; **Fred Were**, Simiyu D, Oyatsi D

- 16.2005. Prevalence of Chicken pox antibodies among healthy children at Kenyatta National Hospital, Dr Bashir A. Supervisors; **Fred Were**, WM Macharia

- 17.2007. Prevalence of Oro-facial malformations in Kenyatta National Hospital and Pumwani hospitals. Dr Odhiambo P. Master of Dental Sciences (MDS). Supervisors; Mark Chindia, **Fred Were**, Patrick M Ndavi

- 18.2008. Magnesium levels in newborns of mothers who receive Magnesium Sulphate during labor. Dr Virginia Muviku. Supervisors; **Fred Were**, Rachel Musoke

- 19.2008. Protocolized feeding of Low Birth Weight Infants-impact on growth and early outcomes. Dr Ngetich Eric. Supervisors; **Fred Were**, Mike English, Rachel Musoke

20. 2008. Predictors of death and major complication in babies born by caesarian section at Pumwani Maternity Hospital. Dr Ngugi John. Supervisors; **Fred Were**, AO Wasunna

- 21.2008. Validation of transcutaneous bilirubin measurement in Kenyan newborns. Dr Benard Awuondo. Supervisors; **Fred Were**, Rachel Musoke

- 22.2009. Barriers to good adherence to Anti-retroviral drug treatment by children at Thika District Hospital; Linet Arika, Kenyatta University. Supervisors; **Fred Were**,

- 23.2009. Prevalence of HIV/AIDS in children with severe and Very Severe Pneumonia; Dr. Minnie Kibore. Supervisors; **Fred Were,**
- 24.2010. Proteinuria in children with diabetes mellitus at Kenyatta National Hospital. Dr Prisca Amolo. Supervisors; **Fred Were,**
- 25.2010. Linkage to continuing comprehensive HIV/AIDS care of children diagnosed with disease at KNH. Dr Immaculate Mutisia. Supervisors; **Fred Were,** E Obimbo
- 26.2011. Prevalence of malnutrition in School children in Kilifi District, Dr Supa Tonje Adika. Supervisors; **Fred Were,** Christine Jowi
- 27.2011. Quality of care of children with Tuberculosis at The Kenyatta National Hospital. Dr. D Musila. Supervisors; **Fred Were,**
- 28.2011. Factors associated with adherence to ART among children attending the outpatient clinic at Gertrude's Garden Children's Hospital. Ms Lynnette Arika at the School of Public Health, Kenyatta University. Supervisors; **Fred Were,**
- 29.2012. Knowledge Attitudes and Practice of Clinicians regarding Pulse Oximetry. Dr. Terry Njoroge. Supervisors; **Fred Were,**
- 30.2012. Prevalence of Acute Kidney Injury in children with severe illness at Kenyatta National Hospital. Dr Cecelia Mutiso. Supervisors; **Fred Were,**

- 31.2012. George Gwako. Ante-Natal Corticosteroid use in preterm birth at Kenyatta National Hospital. Supervisors; Zahida Qureshi, **Fred Were**,
- 32.2013. Bacterial isolates in blood among severely malnourished children attending Mbagathi District Hospital and their sensitivities to the current antibiotic protocols recommended by WHO. Dr. Wycliffe Kimani Ngaruiya. **Fred Were**, Ahmed Laving
- 33.2013. Audit of the quality of care of children with Acute Severe Malnutrition at Mbagathi District Hospital. Dr Jean Wangechi Kinyua. **Fred Were**,
- 34.2013. Mothers' knowledge of signs of neonatal illness and assessment of perceived well neonates at the time of discharge. Dr Anne Gathoni. **Fred Were**, Musoke Rachel
- 35.2015 Dr Phanice Okara; The effect of newborn Resuscitation Training on Perinatal Asphyxia rates at a Level 5 health facility. Supervisors **Fred Were**, Wamalwa D
- 36.2015. Dr. Rose Munge; The effect of reinforcement training on use of partograph on perinatal asphyxia rates at a level 5 health facility. Supervisors **Fred Were**, Wamalwa D
- 37.2015. Dr Farida Esajee; Urine neutrophil gelatinase-associated lipocalin in asphyxiated neonates: a prospective cohort study. Supervisors **Fred Were**, Bashir Admani

- 38.2016. Dr. Maureen Muthoni Njoroge; Factors associated with hypernatremia in infants less than 60 days old. Supervisors **Fred Were**, Bashir Admani
- 39.2016. Dr. Veronica Obunga; Hospitalization rates of babies born at Kenyatta National Hospital within the first month of life. Supervisors **Fred Were**,
- 40.2017. Dr. Priscilla Nganga. Clinical Profile and Audit of Clinical Care of Preterm Infants with Respiratory Distress Syndrome at The Kenyatta National Hospital. Supervisors **Fred Were**,

X.1.2: MATERS DISSERTATIONS IN PROGRESS

- 41.2018; Dr. Lucy Lyanda. Vaccination timing and factors associated with immunization delays among low birth weight infants at Kenyatta National Hospital. Supervisors **Fred Were**, Grace Irimu
- 42.2018; Dr. Bosibori Oirere. Standards of care in management of meningitis in Kenyatta National Hospital. Supervisors **Fred Were**,

XI.2: DOCTORATE

XI.2.1; COMPLETED

- 43.2013. PHD, Dr Gisore Peter. Linking Community Based Health Information System (CBHIS) with Health Information System (HIS) for effective decision making at the Great Lakes University of Kenya. Supervisors Kaseje D **Fred Were**, Ayuku D

44. 2014. MD, Prof Julius Ogeng'o; The pattern of complications and anatomical risk factors of atherosclerosis among black Kenyans. Supervisors; **Fred Were**, A Malek
45. 2014. PHD, Dr Otieno S, Selenium in pathogenesis of HIV/AIDS in children. Kenyatta University. Supervisors **Fred Were**, Kabiru AW
46. 2015. PHD, Dr Florence Nafula Okwara. Optimizing the Diagnosis and Prevention of Tuberculosis in children less than 4 years of age through a family-oriented contact tracing approach at Kenyatta University. Supervisors, Oyore JP, **Fred Were**,

XI.2.2: ONGOING DOCTORAL THESIS

47. Peter Mutuma Mung'ira. Health Care Related Neonatal Infections Associated with Hand Hygiene Among Health Care Workers in Kenya. Kenyatta University. Collecting Data. Supervisors, Oyore JP, **Fred Were**,
48. Dr. Beatrice C Mutai. Effect of enhanced nutrition education of mothers on post-hospital discharge outcomes of children with severe acute malnutrition: a randomized controlled trial. Supervisors, **Fred Were**, Jones Grace.
49. Dr Bernard Awuonda; Implementing simplified antibiotic treatment for neonates with suspected sepsis in rural communities where referral is not possible: a feasibility study in Kisumu county, Kenya. Supervisors; **Fred Were**, Esamai F, Ogutu B

50. Dr George Gwako; Association between antenatal and intrapartum care and still births in 4 tertiary hospitals in Nairobi, Kenya: A case control study. Supervisors; **Fred Were**, Grace Jones

XI.2.3: DOCTORAL THESES MARKED

51. Wanyoro Anthony Karanja. Use of mobile phone short text message service to enhance cervical cancer screening at the Thika Level 5 Hospital, Kiambu County, Kenya. P97/26013/2011. Kenyatta University. 2015

52. Kithinji Lucy Mwari. Determinants of utilization of growth monitoring clinic services among children aged 12-59 months in Kiambu and Machakos Counties. P97/11069/2008. Kenyatta University; 2017

53. Kithinji Lucy Mwari. RESUBMITTED, Determinants of utilization of growth monitoring clinic services among children aged 12-59 months in Kiambu and Machakos Counties. P97/11069/2008. Kenyatta University; 2017

XIII. PUBLICATIONS

Summary

1. Dissertations and thesis	3
2. Abstracts in conference proceedings	62
3. Papers in peer reviewed journals	70
4. Books and Book Chapters	9
5. Policy documents and guidelines	5
TOTAL	144

Activity of Publications

Google Scholar	Publication Activity	
	All Time	Last 5 Years
Citations	1317	810
H-index	17	16
i-10	28	20
Papers cited	50	20
Pubmed page	https://www.ncbi.nlm.nih.gov/pubmed/?term=were+f	
Google s page	https://scholar.google.com/citations?user=oyDWwAQAAAAJ	

XII.1: DISSERTATIONS AND THESES

1. 1990; Were F, Kagia J and Nyikal J W. Factors associated with growth faltering at Mathare North Clinic. MMED dissertation at the Department of Paediatrics and Child Health, University of Nairobi,
2. 1993; Were FN, Reese J, Ramsden A and Roda C; Calcium supplementation in very low birth weight infants. Monash Medical Centre, Melbourne, Australia.
3. 2006; Were FN and Bwibo NO. Long term outcomes of very low birth weight infants at Kenyatta national Hospital. MD thesis at the Department of Paediatrics and Child Health, University of Nairobi.

XII.2: SCIENTIFIC CONFERENCE ABSRACTS

4. Were FN, Nyikal JW, and Kaggia J. Determinants of growth faltering in Mathare North Clinic. The Second Conference of the Association of Physicians, East and Central African. Nairobi, Kenya, 1990.

5. Were FN, Rees J, Roda C, Ramsden A. Intravenous calcium supplementation in preterm infants. ABSTRACT IN the proceedings of the 6th Australian and New Zealand Perinatal Society annual conference; 1993.
6. Were FN, Alcohol as a preservative in paediatric medicinal preparations. The Kenya Medical Association Annual Scientific Meeting. Nakuru, Kenya, 1994
7. Were FN, Intravenous fluid management in newborns undergoing surgery. The Kenya Anesthesiologists Association Annual Conference, Nairobi. 1996.
8. Were FN, Prevention of respiratory distress syndrome. Kenya Obstetric and Gynaecological Association Annual Conference Nairobi, Kenya 1996.
9. Were FN, Neonatal Resuscitation; Kenya Anesthesiologists Association Annual Conference, Nairobi 1997.
10. Were FN. Hepatitis B, local disease burden and immunization. Kenya Pediatric Association biannual Conference, Mombassa, 1997.
11. Were FN, Post-primary vaccination Strategies for Kenya, Kenya Paediatric Association biannual conference, Mombassa, 2001.
12. Were FN, Organization of the national immunization program and how to incorporate new antigens. KPA biannual conference, Mombasa, 2003.

- 13.** Were FN. Epidemiology of childhood injuries in Kenya. The 25th International Paediatric congress in Cancun Mexico, 2004.
- 14.** Were FN, Strategies for Neonatal Survival in Kenya. Kenya Paediatric Association annual conference, Mombasa, 2004.
- 15.** Were FN. Aflatoxicosis Out-brakes in Kenya. The 25th International Paediatric congress in Cancun Mexico, 2004.
- 16.** Were FN, Organization of newborn services in Kenya. Kenya Paediatric Association annual conference, Mombasa, 2005.
- 17.** Were FN, Feeding the low birth weight infant Kenya Paediatric Association biannual conference, Mombasa, 2006.
- 18.** Were FN, Bwibo NO, Early nutrition and later outcomes in VLBW infants at Kenyatta National Hospital. The 20th European congress of perinatal medicine, Prague, Czech Republic 2006.
- 19.** Were FN, Strategies for strengthening immunization in Kenya. Pneumococcal investigators meeting in Colombo, Sri Lanka, 2006.
- 20.** Were FN, Appropriate antibiotic use in severe infections. Kenya Paediatric Association annual conference, Mombasa, 2007.
- 21.** Were FN, Perinatal Health in Kenya- a paediatric perspective. Kenya Obstetric and Gynaecological Society annual conference, Kenya, 2007.

- 22.** Were FN, Activities towards realizing the strategies for strengthening immunization in Kenya. Pneumococcal investigators meeting in Bangkok Thailand, 2007.
- 23.** Were FN, The impact of environmental pollution from the Dagoreti slaughterhouse on child health in the surrounding areas. The 25th International Paediatric congress in Athens, Greece, 2007.
- 24.** Were FN, Bwibo NO, the contribution of Very Low Birth Weight Infants on the overall infant deaths in Kenya the 8th world congress of perinatal medicine in Florence, Italy 2007t
- 25.** Were FN, The burden of childhood pneumonia in Sub-Saharan Africa. The 4th Canadian conference for international health in the city of Ottawa, Canada, 2007.
- 26.** Were FN, Childhood Pneumococcal Vaccination: The time is now. The 8th international congress of tropical Paediatrics. Manila, Philippines, April 2008
- 27.** Were FN, Burden of pneumococcal diseases in Sub-Saharan Africa. The 12th Union of Paediatric Associations and Societies conference in Sun City RSA, 2008.
- 28.** Were FN, Pneumococcal Disease; towards universal vaccination in Kenya in the 6th International Symposium on Pneumococci and Pneumococcal Diseases 2008, Iceland.

- 29.** Were FN, Feeding the low birth weight infant in resource restricted environments in The XXIV International Congress of the Foetus as a Patient. In Frankfurt, Germany. June 2008.
- 30.** Were FN, Perinatal Health in Sub-Saharan Africa. Sudan First International Conference of Perinatal Medicine by the Worldwide Association of Perinatal Medicine. Khartoum, November 2008.
- 31.** Were FN, Saving SS Africa's Low Birth Weight Infants. Sudan First International Conference of Perinatal Medicine. The Worldwide Association of Perinatal Medicine. Khartoum, November 2008.
- 32.** Were FN. Long term outcomes of the VLBW infants in Kenya, 26th congress of the International Paediatric Association. Johannesburg South Africa August 2010.
- 33.** Were FN. Meningococcal vaccines; who needs them; the 26th congress of the International Paediatric Association. Johannesburg South Africa August 2010
- 34.** Were FN. Aflatoxicosis outbreaks in Kenya; how do we control them? The 26th congress of the International Paediatric Association. Johannesburg South Africa August 2010
- 35.** Were FN. Rotavirus Immunization; case for early protection, the 26th congress of the International Paediatric Association. Johannesburg South Africa August 2010

- 36.** Were FN. Overcoming barriers to vaccine implementation, the 26th congress of the International Paediatric Association. Johannesburg South Africa August 2010
- 37.** Were FN. Strategies for reducing perinatal deaths in developing countries. Global Congress of Maternal and Infant Health Barcelona Spain, Sept 2010
- 38.** Were FN. Feeding the Low Birth Weight infant in developing countries. Global Congress of Maternal and Infant Health, Barcelona Spain, September 2010 Barcelona Spain, September 2010
- 39.** Were FN. Combating neonatal infections in developing countries. Global Congress of Maternal and Infant Health Barcelona Spain, September 2010
- 40.** Were FN. Nutrition, Panacea of Infant Mortality. The Annual Conference of The Kenya Paediatric Association, Mombasa, April 2011
- 41.** Were FN. Nutrition and childhood mortality. The Annual Conference of The Kenya Paediatric Association, Mombasa, April 2011
- 42.** Were FN. Pneumococcal Diseases; a burden we cannot ignore. The Annual Conference of The Kenya Paediatric Association, Mombasa, April 2011

- 43.** Were FN Childhood immunizations; an African perspective. The Annual Conference of The Kenya Paediatric Association, Mombasa, April 2011
- 44.** Were F; Outcomes of Very Low Birth Weight Infants in developing Countries, The 9th International Congress of Tropical Paediatrics, in Bangkok.
- 45.** Were F; Dengue Fever in Africa, The 9th International Congress of Tropical 2011 Paediatrics, in Bangkok.
- 46.** Were F. Reducing Rotavirus disease through vaccination, The 9th International Congress of Tropical Paediatrics, in Bangkok. 2011
- 47.** Were F Defining efficacy of Pneumococcal vaccines in GAVI eligible countries The 9th International Congress of Tropical Paediatrics, in Bangkok 2011.
- 48.** Were F; Neonatal Infections. The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia 2011.
- 49.** Were F; Malaria in African Children. The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia 2011.
- 50.** Were F; Understanding the Efficacy of Pneumococcal vaccines. The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia 2011.

- 51.** Were F; Overcoming barriers to Pneumococcal Vaccine Implementation. 8th International Society for Pneumococcus and Pneumococcal Diseases Conference, Iguasu Falls, Brazil 2012
- 52.** Were F; Impact data with PHiD-CV in Africa and non-EU countries. Workshop on advancing health equity in emerging markets. Casablanca, Morocco, 2012
- 53.** Were F; Meningococcal Vaccines, for whom? The Kenya Paediatric Association Annual Conference, Mombasa 2012
- 54.** Were F; Global Efficacy and Effectiveness of Rotavirus Vaccines. The Kenya Paediatric Association Annual Conference, Mombasa 2012
- 55.** Were F; Acting today for a healthy tomorrow: a key note conference presentation. The 1st National Paediatric Association of Rwanda Conference, Kigali, Rwanda
- 56.** Were F; Universal Mass Vaccination for PCV-Kenya's experience. Special pre-introduction conference hosted by the Ministry of Health and Sudan Paediatric Society, Khartoum, Arab Republic of Sudan
- 57.** Scaling up nutrition for low birth weight infants; the experience from Kenya. The Nutrition & Dietetic societies of South Africa, Cape Town 2013

- 58.** Were F; Rotavirus Vaccination in Kenya; have We Strode off the Path?
The 14th Annual Kenya Paediatric Association Conference, Mombasa
Kenya
- 59.** Were F; Globalization of infectious diseases. Key-note paper at the
international forum on infectious diseases; Nairobi 2013
- 60.** Were F; Intrauterine Growth Retardation in Sub-Saharan Africa. Nestle
Nutrition Institute; IUGR conference; New Delhi, India 2013
- 61.** Were F; Essentials on Neonatal Infections-Evidence Based Decisions.
The 8th World Congress of the World Society for Pediatric Infectious
Diseases. Cape Town RSA, 2013
- 62.** Were F; Effectiveness of Conjugate Pneumococcal Vaccines in
Developing countries; The 5th Asian Vaccine Congress, Hanoi, Viet Nam,
2015
- 63.** Were F; Complementary Feeding: Guiding Principles. The African
Nutrition Society Conference, Arusha, Tanzania, 2015
- 64.** Were F, The impact of complementary feeding in the first 1000 days.
NNIA scientific workshop, Windhoek, Namibia
- 65.** Were F, Chronic Intrauterine infections in tropical countries. The 11
International Congress of Tropical Paediatrics, Jogjakarta, Indonesia.
2017

XII.3: PEER REVIEWED PAPERS

- 66. Were FN.** Pyrexia of undetermined cause in children. East African Medical Journal. 1991; 68: 9; 683.
- 67. Obimbo E, RN Musoke, FN Were.** Knowledge, Attitudes, and Practices of mothers and knowledge of health workers regarding care of the newborn umbilical cord. East African Medical Journal. 1999; 76:425-429.
- 68. Were FN, Mukhwana RO and Musoke RN.** Neonatal survival of inborn infants less than 2000grams at birth at Kenyatta National Hospital. East African Medical Journal. 2002; 79: 77-79.
- 69. Ndwiga DN, Were FN, Musoke RN.** Hyponatremia in Very Low Birth Weight Infants. East African Medical Journal. 2002; 79: 21-124.
- 70. Were FN, Govedi FA, Revathi G and Wambani JS.** Chlamydia as a cause of late neonatal pneumonia at Kenyatta National Hospital, Nairobi. East African Medical Journal, 2002; 79: 7-10.
- 71. Were F.N, Mukhwana R O and Musoke RN.** Early Perinatal Mortality at Kenyatta National Hospital. The Journal of Obstetric and Gynecology East and Central Africa. 2003; 16(1): 15-18.
- 72. Were FN, Lusweti B, Wasunna A, and Musoke RN.** Is delivery outside hospital a risk of development of early sepsis? Journal of Obstetrics and gynaecology East and Central Africa. 2004; 7(1): 19-24.

- 73.** English M, Esamai F, Wasunna A, **Were F**, Ogutu B, Wamae A, Snow RW, Peshu N. Assessment of inpatient paediatric care in first referral level hospitals in 13 districts in Kenya. *Lancet*. 2004; 363:1948-1953.
- 74.** English M, Esamai F, Wasunna A, **Were F**, Ogutu B, Wamae A, Snow RW, Peshu N. Delivery of paediatric care at the first-referral level in Kenya. *Lancet*. 2004; 364:1623-1629.
- 75.** **Were FN**, Newborn Survival Revolution; EDITORIAL IN the East African Medical Journal. 2005; 82: 545-546
- 76.** Omondi-Ogutu J, **Were FN**. Steroid use in rhesus negative sensitized mothers to reduce Anti-D titres. *Journal of Obstetrics and Gynaecology East and Central Africa*. 2005; 19:41-45
- 77.** **Were FN**, Bwibo NO. Early growth of very low birth weight infants. *East African Medical Journal*. 2006; 83:84-89.
- 78.** **Were FN**, Bwibo NO. Two-Year Neurological Outcomes of VLBW Infants. *East African Medical Journal*. 2006; 83: 243-249
- 79.** Sekela Mwakyusa, A Wamae, A Wasunna, **F Were**, F Esamai, B Ogutu, A Muriithi, N Peshu and M English. Implementation of a structured paediatric admission record for district hospitals in Kenya . results of a pilot study. *BMC International Health and Human Rights* 2006, 6:9

- 80. Were FN, Bwibo NO.** Nutrition and later outcomes among very low birth weight infants at Kenyatta National Hospital. African Health Sciences. 2007; 7(2): 96-102.
- 81. Newton Opiyo, Fred Were, Fridah Govedi, Greg Fegan, Aggrey Wasunna, Mike English.** Effect of Newborn Resuscitation Training on Health worker Practices in Pumwani Hospital Kenya. PloS ONE.2008; 3(2): e1599.doi; 10.1371/ journal.
- 82. Mike English, Grace Irimu, Annah Wamae, Fred Were, Aggrey Wasunna, Greg Fagan and Nobert Peshu.** Health systems research in a low-income country: easier said than done. Archives of diseases of childhood. 2008; 93:540-544
- 83. Grace Irimu, Annah Wamae, Aggrey Wasunna, Fred Were, Stephen Ntoburi, Newton Opiyo, Philip Ayieko, Nobert Peshu and Mike English.** Developing and introducing evidence based clinical practice guidelines for serious illnesses in Kenya. Archives of diseases of childhood. 2008; 93:799-804
- 84. Bashir A, Macharia WM, Were FN.** Prevalence of Varicella infection in HIV infected children attending Kenyatta national Hospital. The East African Medical Journal. 2008:85;480-86
- 85. Were FN, Bwibo NO,** Contribution of Very Low birth Infants to the infant mortality in The East African Medical Journal. 2009:86.

86. Meenakshi Ramakrishnan, Aaron J. Ulland, Laura C. Steinhardt, Jennifer C. Moisi **Fred Were** and Orin S. Levine. Sequelae due to bacterial meningitis among African children: a systematic literature review. *BMC Medicine* 2009, 7:47 doi:10.1186/1741-7015-7-47
87. Charles Opondo, Steven Ntobiri, John Wagai, Jackline Wafula, Aggrey Wasunna, **Fred Were**, Annah Wamae, Santau Migiro, Grace Irimu, Mike English. Are hospitals prepared to support newborn survival? -an evaluation of eight first-referral level hospitals in Kenya. *Trop Med International Health*, 2009; 14(10): 1165-1172
88. KP Klugman, J Carau, **F Were (collaborating author)** Perspective; A preventable killer: Pneumonia. *Clinic Microbial Infect*, 2009; 15:989-990
89. Onyango AB, Suresh G, **Were F**. Intermittent phototherapy versus continuous phototherapy for neonatal jaundice (Protocol). The Cochrane Collaboration and published in The Cochrane Library 2009, Issue 4.
90. Dagan R, Bhutta ZA, de Quadros CA, Garau J, Klugman KP, Khuri-Bulos N, Levine O, Saha SK, Sow S, **Were F**, Yang Y. The remaining challenge of pneumonia; the leading killer of children. *Pediatric Infectious Disease J*. 2011 Jan; 30(1):1-2.

- 91.** Philip Ayieko, Stephen Ntoburi, John Wagai, Charles Opondo, Newton Opiyo, Santau Migiro, Annah Wamae, Wycliffe Mogo, **Fred Were**, Aggrey Wasunna, Greg Fegan, Grace Irimu, Mike English. A Multifaceted Intervention to Implement Guidelines and improve admission Paediatric Care in Kenyan District Hospitals: A Cluster Randomised Trial. PLoS Medicine April 2011 | Volume 8 | Issue 4 | e1001018
- 92.** David Gathara, Newton Opiyo, John Wagai, Stephen Ntoburi, Philip Ayieko, Charles Opondo, Annah Wamae, Santau Migiro, Wycliffe Mogo, Aggrey Wasunna, **Fred Were**, Grace Irimu and Mike English. Quality of hospital care for sick newborns and severely malnourished children in Kenya: A two-year descriptive study in 8 hospitals. BMC Health Services Research 2011, 11:307. <http://www.biomedcentral.com/1472-6963/11/307>
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- 96. Fred Were.** The dengue situation in Africa; Paediatrics and International Child Health 2012; 32 (S1): 18-21
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- 98. Julius A Ogengø, Kevin W Ongeti, Abel Malek, Fred N Were, Musa Misiani, Bethlene Wasiko, Acleus Murunga, Judith Machira.** Anatomic Risk Factors for Atherosclerosis of the Left Carotid Artery in a Black Kenyan Population. Research open Journal of Anatomy 2013;1(1):01-07
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- 101. Bandika VL, Were FN, Simiyu ED, Oyatsi DP.** Hypoglycaemia and hypocalcaemia as determinants of admission birth weight criteria for term stable low risk macrosomic neonates. African Health Sciences. 2014 Sep; 14(3):510-6. doi: 10.4314/ahs.v14i3.3.

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- 111.** David Gathara, Rachael Nyamai, **Fred Were**, Wycliffe Mogoia, Jamlick Karumbi, Elesban Kihuba, Stephen Mwinga, Jalemba Aluvaala, Mercy Mulaku, Rose Kosgei, Jim Todd, Elizabeth Allen, Mike English, on behalf of the SIRCLE/Ministry of Health Hospital Survey Group. Moving towards routine evaluation of quality of inpatient pediatric care in Kenya. PLOS ONE. 2015; DOI:[10.1371/journal.pone.0117048](https://doi.org/10.1371/journal.pone.0117048).

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118. Otieno S.B, **Were F** and Kabiru EW: The Effect of yeast selenium on HIV1 Infected Prepuberty Children in Nyamasaria (Accepted for Publication) *Journal of Epidemiology* (2016): Hundawi publishers.
119. Jocelijn Stokx, Carine Dochez, Pamela Ochieng, Jhilmil Bahl, **Fred Were**. Evaluation of a training DVD on Pneumococcal Conjugate vaccine for Kenyan EPI Healthcare Workers. *Education for Health*, 2016; 29(1):35-41.
120. Mike English, Irimu G, Agweyu A, Gathara D, Oliwa J Ayieko P, **Were F**, Paton C, Tunis S, Forrest CB. Building Learning Health Systems to Accelerate Research and Improve Outcomes of Clinical Care in Low and Middle-Income Countries. [Plos Mes, 2016 13\(4\): e1001991.doi:10.1371/journal.pmed.1001991](#)
121. Desire Aime Nshimirimana, Donald Kokonya, Jeanne Marie Claude Uwurukundo, Phocas Biraboneye, **Fred Were**, Cyprien Baribwira. Pain Assessment among African Neonates. *American Journal of Pediatrics*, 2016; 2(2): 4-9, <http://www.sciencepublishinggroup.com/ajp>

- 122.** Jaspreet Gharial, Ahmed Laving, **Were Fred**. Racecadotril for the treatment of severe acute watery diarrhoea in children admitted to a tertiary hospital in Kenya. *BMJ Open Gastro* 2017; 4:e000124. doi:10.1136/bmjgast-2016-000124
- 123.** English M, Ayieko P, Nyamai R, **Were F**, Githanga D, and Irimu G. What do we think we are doing? How might a clinical information network be promoting implementation of recommended paediatric care practices in Kenyan hospitals? *Health Res Policy Syst.* 2017 Feb 2; 15(1):4. doi: 10.1186/s12961-017-0172-1.
- 124.** David Gathara, Lucas Malla, Philip Ayieko, Stella Karuri, Rachel Nyamai, Grace Irimu, Michael Boele van Hensbroek, Elizabeth Allen, Mike English, and **the Clinical Information Network**. Variation in and risk factors for paediatric inpatient all-cause mortality in a low-income setting: data from an emerging clinical information network. *BMC Pediatrics*, (2017) 17:99 DOI 10.1186/s12887-017-0850-8.
- 125.** Mike English, Grace Irimu, Rachel Nyamai, **Fred Were**, Paul Garner, Newton Opiyo. Developing guidelines in low-income and middle-income countries: lessons from Kenya. *Arch Dis Child*, 2017; 01. 6. doi:10.1136/archdischild-2017-312629
- 126.** Bonface Ombaba Osano, **Fred Were**, Shanaaz Mathews. Mortality among 5-17-year-old children in Kenya. *The Pan African Medical Journal.* 2017; 27:121.

127. Emily C Keats, Anthony Ngugi, William Macharia, Nadia Akseer, Emma Nelima Khaemba, Zaid Bhatti, Arjumand Rizvi, John Tole, Zulfiqar A Bhutta. Progress and priorities for reproductive, maternal, newborn, and child health in Kenya: A Countdown to 2015 country case study. *Lancet Glob Health* 2017; 5: e782. 95 S (**acknowledged**)
128. Jon Kim Andrus, Ananda Sankar Bandyopadhyay, M. Carolina Danovaro Holliday, Vance Dietz, Carla Domingues, J. Peter Figueroa, Leila Posenato Garcia, Alan Hinman, Mirta Roses, Cuauhtémoc Ruiz Matus, Jose Ignacio Santos, **Fred Were**. The past, present, and future of immunization in the Americas. *The Pan American Journal of Public Health*, 2017; 41 <http://iris.paho.org/xmlui/handle/123456789/34394>
129. Ambrose Agweyu, Richard J Lilford, Mike English, for the **Clinical Information Network Author Group**. Appropriateness of clinical severity classification of new WHO childhood pneumonia guidance: a multi-hospital, retrospective, cohort study. *Lancet Glob Health* 2018; 6: e74. 83
130. Carine Dochez, Rosemary J Burnett, Symplize Mbola Mbassi, **Fred Were**, Andrew Musyoki, Daisy Trovoada, M Jeffrey Mphalele. Improving skills and institutional capacity to strengthen adolescent immunisation programmes and health systems in African countries through HPV vaccine introduction. *Papillomavirus Research*, 2017; V:66-71

131. Georgina A. V. Murphy, David Gathara, Jacintah Mwachiro, Nancy Abuya, Jalemba Aluvaala, Mike English and on behalf of the **Health Services that Deliver for Newborns Expert Group**. Effective coverage of essential inpatient care for small and sick newborns in a high mortality urban setting: a cross-sectional study in Nairobi City County, Kenya. *BMC Medicine* (2018) 16:72
132. Georgina A. V. Murphy, David Gathara, Nancy Abuya, Jacintah Mwachiro, Sam Ochola, Robert Ayisi, Mike English, **on behalf of the Health Services that Deliver for Newborns Expert Group**. What capacity exists to provide essential inpatient care to small and sick newborns in a high mortality urban setting? - A cross-sectional study in Nairobi City County, Kenya. *PLOS ONE* | <https://doi.org/10.1371/journal.pone.0196585>
133. Carlos Lifschitz, Fred N. Were. Editorial on Challenges of complementary feeding. *Ann Nutr Metab* 2018;73(suppl 1):5
134. Carlos Lifschitz, Fred N. Were. Complementary Feeding: Beyond Nutrition. *Ann Nutr Metab* 2018;73(suppl 1):20. 25

XII.4: POLICY DOCUMENTS AND GUIDELINES

135. 2012; Guidelines on Basic Newborn Resuscitation. http://www.who.int/maternal_child_adolescent/documents/basic_newborn_resuscitation/en/

- 136.** 2012; Terms of reference for the National Immunization Technical Advisory Group (NITAG). Unit of Vaccines and Immunization, Ministry of Health; 2012. Ministry of Health, PO BOX 30026, Nairobi, Kenya
- 137.** 2013; The Paediatric HIV/AIDS strategic plan for National AIDS and Sexually Transmitted Diseases Control Program (NAS COP) of the Ministry of Health
- 138.** 2013; Ministry of Health; national Policy Guidelines on Immunization policy for Kenya. Division of Vaccines and immunization, Ministry of Public Health & Sanitation.
<http://www.mchip.net/sites/default/files/mchipfiles/Immunization>
- 139.** 2015; Guidelines for managing possible serious bacterial infection in young infants when referral is not feasible; 2015; ISBN: 978 92 4 150926 8. http://www.who.int/maternal_child_adolescent/documents/bacterial-infection-infants/en/
- 140.** Meeting report; WHO expert consultation on serotype composition of pneumococcal conjugate vaccines for use in resource-poor developing countries. Vaccine, 2007; 25:6557-6564

XII.5: BOOK AND BOOK CHAPTER

- 141.** Newborn care handbook for primary care workers at dispensaries and health centres. I was the lead consultant of the team that developed and produced the book on behalf of the National Ministry of Health Kenya. Launched on Friday 25 May 2018

- 142.** 2013; Were F, Ochieng R and Wairimu E K. An algorithm for Neonatal Intensive care in a middle-income setting
- 143.** 2013; Were F. Scientific reviewer. Emergency Triage and Treatment plus (ETAT+) self learning manual for health workers.
- 144.** 2011, Were Fred, Additional vaccination strategies. In: The Immunization Manual for Health Workers, 2nd Edition, Division of family health, Ministry of Health and Departments of Paediatrics UON, and Moi University 2012.
- 145.** 2011; Were Fred, Simiyu DE; Pertussis. In: The Immunization Manual for Health Workers, 2nd Edition, Division of family health, Ministry of Health and Departments of Paediatrics UON, and Moi University 2012.
- 146.** 2011: Were Fred, Ngacha DM. Diphtheria. In: The Immunization Manual for Health Workers, 2nd Edition, Division of family health, Ministry of Health and Departments of Paediatrics UON, and Moi University 2012.
- 147.** 2011: Wasunna A, Were F. Co-Editor. The Immunization Manual for Health Workers, 2nd Edition, Division of family health, Ministry of Health and Departments of Paediatrics UON, and Moi University 2012.
- 148.** 2010: Were F, Feeding Low Birth Weight Infants in Resource Restricted Environments. In: Pediatric Nutrition in Practice. 2008; S KARGER AG; 2008 PO BOX CH-4009, BASEL (SWITZERLAND).

XIV. KEY CONFERENCES/WORKSHOPS ATTENDED

XIII.1. CONFERENCES

1. August 1989; The Kenya Paediatric Association/ the 4th African Union of Paediatric Societies and Associations scientific conference and the 2nd International congress of tropical Paediatrics in Nairobi. Member of the organizing committee.
2. August 1990; The Association of Physicians East and Central African Scientific Conference in Nairobi; presentation on %The Factors associated with growth failure at Mathare North Clinic+. This was part of my MMED thesis work
3. July 1993; The 11th congress of the Australian Perinatal society in Hobert, Australia Presented a research paper, %calcium supplementation in LBW infants+
4. August 1994; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; Emerging Issues in Paediatrics. Chairman of the organizing committee
5. April 1994; Annual Kenya Medical Association Conference in Nakuru, Kenya. Was guest with an oral presentation on %The undesired effects of alcohol used as a preservative in commonly used antipyretics/analgesics in Children+

6. October 1996; The Kenya Anesthesiologists Association Annual Conference as invited speaker. Paper read; Intravenous fluid therapy for newborns undergoing surgery+
7. August 1996; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; emerging issues in Paediatrics. Chairman of the organizing committee
8. Feb 1996; the Kenya Obstetric and Gynaecological Association Annual Conference at the Aga Khan Hospital, Nairobi. Invited Speaker The prevention of Respiratory Distress Syndrome in newborns+
9. August 1997; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; Child health revisited. Chairman of the organizing committee and Invited speaker. Title Epidemiology of hepatitis b in Kenya children+
10. May 1997; The Kenya Anesthesiologists Association Annual Conference, as invited Guest speaker I read a paper on Effective practices in the resuscitation of newborns at birth
11. August 1998; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; Childhood infections in Kenya. Chairman of the organizing committee and Invited Speaker; Papers read, Prevention of neonatal infections+

12. August 2000; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; shall we achieve the MDG 4 in Kenya. Invited Speaker; paper read %organization of newborn services in Kenya+ as well as being the Chairman of the organizing committee

13. August 2002; The Kenya Paediatric Association biannual conference. Invited Speaker, paper read; %immunization beyond the primary program in Kenya+

14. August 2004; The 24th International Paediatric congress in Mexico. Invited speaker; Papers read; 1. The epidemiology of childhood accidents in Kenya, 2. Aflatoxin outbreaks in Kenya: the paediatric burden+

15. May 2006; Pneumococcal investigators meeting in Colombo, Sri Lanka. Invited Speaker; Topic %The methodology of planned activities on strengthening immunization services in Kenya+

16. April 2006; The Kenya Paediatric Association biannual conference. Invited Speaker, paper read, %feeding the low birth weight infant+

17. April 2007; The Kenya Paediatric Association annual scientific conference in Nairobi. Theme; Evidence based paediatric practice. Invited Speaker, papers read were; 1. Value of vaccines, 2. Appropriate use of antibiotic use.

18. Feb 2007; The Kenya Obstetric and Gynaecological Society annual conference, Nyeri, Kenya. Invited Speaker, paper read %Perinatal health in Kenya-a paediatric perspective+

19. Feb 2007; Pneumococcal investigators meeting in Bangkok Thailand.
Invited Speaker; Topic; %strengthening immunization services in Kenya+
20. May 2007; The 25^h International Paediatric congress in Athens, Greece.
Invited Speaker: Topic; %Environmental pollution emanating from the
Dagoreti slaughterhouse- A serious health hazard for children+
21. July 2007; The 8th world congress of perinatal medicine in Florence, Italy.
Oral research paper based on my MD thesis: Title %The contribution of
VLBW infants towards overall IMR in Kenya.
22. Aug 2007; The 4th Canadian conference for international health in the city
of Ottawa, Canada. Invited guest speaker; Title, %Pneumococcal diseases
in Sub-Saharan Africa-the urgent need for a vaccination program+
23. Sept 2007; The annual conference of The Paediatric Association of
Tanzania. Invited speaker; Title, %The value of vaccines in human society+
24. April 2008; The 8th international congress of tropical Paediatrics. Manila,
Philippine. Invited speaker; Title, %Childhood Pneumococcal Vaccination:
The time is now+
25. May 2008; The 12th Union of Paediatric Associations and Societies
Conference in Sun City RSA. Invited guest speaker. Title; %The burden of
pneumococcal diseases in Sub-Saharan Africa+

26. June 2008; The 6th International Symposium on Pneumococci and Pneumococcal Diseases. Reykjavik, Iceland. Invited speaker; Title %Pneumococcal Disease; Towards universal vaccination in Kenya+
27. June 2008; The XXIV International Congress of the Foetus as a Patient. In Frankfurt, Germany. Invited speaker; Title %Feeding the low birth weight infant in resource restricted environments.
29. Nov 2008; Sudan First International Conference of Perinatal Medicine by the Worldwide Association of Perinatal Medicine. Khartoum. Invited speaker. Papers read; Overview of Perinatal Health in Sub Saharan Africa
30. Nov 2008; Sudan First International Conference of Perinatal Medicine by the Worldwide Association of Perinatal Medicine. Khartoum. Invited speaker. Papers read; Saving the African Low Birth Weight Infants
31. April 2008; The Kenya Paediatric Association annual conference. Invited Speaker, Papers Read, 1. Enteral feeding the low birth weight infant in resource restricted environments, 2. The value of vaccines in developing countries, 3. Appropriate antibiotic prescription; the evidence.
32. April 2009; The Kenya Paediatric Association annual conference. Invited speaker, paper Read, %Drivers of antibiotic resistance+
33. June 2009; European society for paediatric infectious diseases. Brussels, Belgium. Invited observer.

34. Aug 2009; African Rotavirus conference, Nairobi, Kenya. Was the conference organizer and chairman.
35. Oct 2009; The 13th Asia Pacific Paediatric Association Congress, Shanghai, China. Invited Speaker, "Decreasing Pneumococcal Disease Burden: An African Perspective"
36. Oct 2009; 9th World congress of perinatal medicine; Berlin, Germany. Invited speaker. Title "Feeding the Low Birth Weight Infant in poor countries"
37. Mar 2010; Vaccines Availability for all children in Asia, Kuala Lumpur, Malaysia. Papers read; "Efficacy of human Rotavirus vaccine against RVGE, with focus on Asia Pacific"
38. Mar 2010; Vaccines Availability for all children in Asia, Kuala Lumpur, Malaysia. Papers read; "Challenges of Reducing Pneumococcal Disease in Developing countries."
39. April 2010; Sub-Saharan Africa Regional Expert Academy Meeting on Pneumococcal Vaccines. Johannesburg: Invited Speaker. Topic; "Antibiotic Misuse in SS Africa"
40. June 2010; The Paediatric Association of Tanzania Annual Conference, Dar- Salaam. Invited Speaker, Papers read, 1. Global value of immunizations, 2. Impact of Pneumococcal and Rotavirus Vaccines in SS Africa.

41. Aug 2010; Congress of the Ethiopian Paediatric Association. Facilitated two plenary talks on Rotavirus vaccination and Control of pneumococcal diseases in SS Africa. Addis Ababa

42. Oct 2010; The 26^h International Paediatric congress in Johannesburg, South Africa. Roles; member of scientific committee and session chairman. Presented a plenary paper, Long term outcome of VLBW infants in Kenya

43. Oct 2010; The 26^h International Paediatric congress in Johannesburg, South Africa. Roles; member of scientific committee and session chairman. Presented a key note plenary paper on; Meningococcal vaccines; where are we?

44. Oct 2010; The 26^h International Paediatric congress in Johannesburg, South Africa. Roles; member of scientific committee and session chairman. Presented a plenary paper on; Aflatoxicosis in Kenya.

45. Oct 2010; The 26^h International Paediatric congress in Johannesburg, South Africa. Roles; member of scientific committee and session chairman. Presented a plenary paper on; Barriers to implementation of universal Pneumococcal Vaccination.

46. Oct 2010; The 26^h International Paediatric congress in Johannesburg, South Africa. Roles; member of scientific committee and session chairman. Presented a plenary paper on; Rotavirus vaccination, need for early protection.

47. Oct 2011; The 9th International Congress of Tropical Paediatrics, in Bangkok. Presented a plenary paper on; Outcomes of Very Low Birth Weight Infants in developing Countries.
48. Oct 2011; The 9th International Congress of Tropical Paediatrics, in Bangkok. Presented a plenary paper on; Dengue Fever in Africa.
49. Oct 2011; The 9th International Congress of Tropical Paediatrics, in Bangkok. Presented a plenary paper; Reducing Rotavirus disease through vaccination.
50. Oct 2011; The 9th International Congress of Tropical Paediatrics, in Bangkok. Presented a plenary paper on Defining efficacy of Pneumococcal vaccines in GAVI supported countries.
51. Nov 2011; The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia. Presented a paper on Neonatal Infections.
52. Nov 2011; The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia. Presented a review paper on Malaria in African Children.
53. Nov 2011; The 12th congress of the World Society for Paediatric Infectious Diseases, Melbourne, Australia. Presented plenary papers on; Understanding the Efficacy of Pneumococcal vaccines. I also chaired 2 scientific sessions.

54. April 2011; The Kenya Paediatric Association annual conference. I read 3 plenary papers on Childhood immunizations, Infant mortality and Nutrition, Childhood mortality and nutrition.
55. April 2012; The Kenya Paediatric Association annual conference. I read a paper titled meningitis vaccine for Africa.
56. March 2012. The First Annual International Conference on Child Health. Paediatric Association of Rwanda. I was the key note speaker
57. March 2012. The 8th International Society for Pneumococcus and Pneumococcal Diseases Congress in Iguacu City, Brazil. The Kenya Action on Prevention of Pneumonia and Diarrhoea.
58. March 2012. The 8th International Society for Pneumococcus and Pneumococcal Diseases Congress in Iguacu City, Brazil. Impact of Pneumococcal Vaccination in Kenya.
59. October 2012. The Sudan Paediatric Association. The Immunization Symposium, Khartoum. Read a key note address titled; Impact of Pneumococcal vaccine introduction in Kenya.
60. April 2013; The Kenya Paediatric Association annual conference. I read a paper titled value of vaccines for reducing childhood mortality.
61. April 2014; The Kenya Paediatric Association annual conference. I read a paper titled under-nutrition as contributor to child mortality.

62. August 2014; The 10th International Congress of Tropical Paediatrics, in Nairobi. Presented a plenary paper on Child Deaths In Eastern Africa.
63. Sept 2016; the International Congress of Paediatrics. Vancouver, Canada. I was session chair for a Hot Topics Session
64. May-June 2018; the European Paediatric Infectious Diseases Congress in Malmo City, Sweden sponsored by Sanofi Company.

XIII.2 WORKSHOPS/SEMINARS

65. 1989; Breast feeding and infant nutrition seminars to paramedical staff in various parts of Kenya. Topic; Physiology of Lactation.
66. 1990; The Kenya Growth Monitoring Program evaluation workshop hosted by UNICEF Kenya in Nairobi. Rapporteur General.
67. 1991; Johns Hopkins University Reproductive/Perinatal Health Workshop in Mombasa. Read paper %Sexually Transmitted Diseases in Newborns.
68. 2002; The 52nd Nestle nutrition workshop in Dubai, The United Arab Emirates The theme was "Micronutrients in the first months of life".
69. 2004; Children and Environmental Health, Cancun Mexico. Facilitated the Topic %Water, Sanitation and Children.

70. 2004; Children and Environmental Health, Gabarone, Botswana, Topics facilitated; Water/Sanitation, Air pollution and Chemical Poisoning.
71. 2005; Children and Environmental Health, Nairobi, Kenya, as Workshop Chairman. Topic facilitated: Aflatoxicosis in Kenya, 2005
72. 2006; WHO expert committee on Pneumococcal serotype selection for vaccine Candidates. Geneva, Switzerland.
73. 2006; Neonatal medicine in Eastern Africa; co-hosted by the Kenya Paediatric Association and Nestle Kenya, Mombasa. Topic; Feeding the Low Birth Weight Infant.
74. 2007; Nutrition and allergy in children; co-hosted by the Kenya Paediatric Association and Nestle Kenya, Mombasa. Workshop Chairman.
75. 2008; The 3rd Pneumococcal Accelerated Development and Introduction Plans (ADIPs) and Hib Initiative vaccine research strategic meeting, Rome Italy.
76. 2009; Consultative meeting to review the new American Academy of Paediatrics program on newborn resuscitation called "helping babies breathe" at WHO headquarters in Geneva
77. 2009; Africa Rotavirus Conference Nairobi, Kenya, Saturday 15 August
78. 2009; Consultative meeting to review the WHO guidelines on neonatal resuscitation at WHO headquarters in Geneva

79. 2009; Global Rotavirus Experts Academy Meeting, Madrid, Spain. Purpose was to develop curriculum for health provider training in contemporary issues on rotavirus disease and vaccination
80. 2009; Pneumococcal Awareness Council of Experts (PACE)¶ Parliamentary briefing and meetings in Brussels to discuss the role of the European Union in combating pneumococcal disease. October 2009, Brussels, Belgium. Key note address
81. 2009; World Health Organization/UNICEF/World Bank; Launch of the 2nd state of the world¶ vaccines and immunization. Washington DC
82. 2009; Africa Rotavirus Conference, Safari Park Hotel, Nairobi. I was the convener and Chairman.
83. 2010; Rotavirus Expert Academy Burden of Rotavirus Disease and the Case for Vaccination in Asia. The Westin Kuala Lumpur, Kuala Lumpur, Malaysia
84. 2010; 1st Emerging Markets Paediatric Vaccine Preventable Diseases (EMpVPD) Working Group Meeting, JW Marriott Hotel, Cairo, Egypt. Presented Key note address on the Class Effect of Pneumococcal vaccines.
85. 2010; Vaccine Availability for All Children in Asia for GSK medical educational initiatives. Facilitated a session on. Overcoming the Challenges in Pneumococcal Disease Prevention. The Westin Kuala Lumpur, Kuala Lumpur, Malaysia

86. 2010; The 68th Nestlé Nutrition Institute Workshop entitled, "Early Nutrition: Impact on Long and Short-Term Growth". Washington DC
87. 2011; "Protect, Prevent, and Treat": African Regional Workshop on coordinated approaches to pneumonia and diarrhoea prevention & control. Key note address. Nairobi, Kenya,
88. 2011; Paediatric Vaccination: New Era, New Frontiers. As a facilitator. Murooj Rotana, Dubai
89. 2011; GAVI Alliance Prioritization Mechanism Independent Review Committee, Geneva, Switzerland
90. 2011; The first Sabin Vaccine Institute Colloquium on Sustainable Immunization Financing, at the Sheraton Hotel, in Addis Ababa, Ethiopia as a facilitator.
91. 2011; The GAVI/AMC advisory Board Meeting for Pfizer's Prevenar 13. Milan Italy
92. 2011; Vaccines in the emerging markets, Accra Ghana. Focus on pneumococcus.
93. 2012; Introduction of New Vaccines; Experience X-Change meeting. Kenya Paediatric Association/GSK. Nairobi. Presented paper titled "Pneumococcal disease and vaccines in Eastern Africa"

94. 2012; Experience Exchange meeting. Kenya Paediatric Association/GSK. Nairobi. Presented paper titled Potential Impact of Rotavirus Vaccines.
95. 2016; Human Papilloma Virus Vaccine Workshop; Network for Education Supporting Immunizations, Kenya Paediatric Association and University of Nairobi. Nairobi
96. 2018. The 36th annual meeting of European Society for Paediatric Infectious Diseases. Malmo City, Sweden

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