



**CURRICULUM VITAE**

**LOICE WARWARE GATHECE**

**BDS, MPH, PhD (NAIROBI, KENYA)**

**ASSOCIATE PROFESSOR**

**Department of Periodontology/Community and Preventive Dentistry  
School Of Dental Sciences  
College of Health Sciences  
University of Nairobi  
&**

**Public  
Health Specialist**

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### **Personal information**

**NAME** Prof. Loice Warware Gathece

**PERMANENT ADDRESS:** P.O. Box 2631-00202-KNH Nairobi.

**CONTACT ADDRESS:** UNIVERSITY OF NAIROBI  
SCHOOL OF DENTAL SCIENCES,  
P.O. Box 19676, 00202  
NAIROBI.

**TELEPHONE** 254-773-181-503  
254-722-755-590

**E-MAIL** [gathece@uonbi.ac.ke](mailto:gathece@uonbi.ac.ke), [lgathece@gmail.com](mailto:lgathece@gmail.com)

**DATE OF BIRTH** December 20<sup>th</sup> 1967

**PLACE OF BIRTH** Kirinyaga county

**GENDER** Female

### **SUMMARY OF PROFILE**

I am a committed, reliable, trustworthy, hardworking, focused and dedicated person who is result oriented. I work independently with or without supervision. I possess good teaching, clinical, research, managerial, conceptual and interpersonal skills. I am also a gifted mentor, motivator and role model.

### **EDUCATION BACKGROUND**

#### **University education**

**2006-2011** **Doctor of Philosophy (PhD) in Public Health**, University of Nairobi.  
Thesis Title: "Impact of Health Education on Oral Health and Oral Health Related Quality of Life Among Persons Living with HIV in to comprehensive care centres in Nairobi" .

**1996-2000** **Master Degree in Public Health (MPH)**, University of Nairobi.  
Thesis Title: The Impact of Peer Education on Behaviour of Female Sex Workers in two Different Areas in Nairobi, Kenya'  
Units covered - Epidemiology, Research methodology, Health service management and administration, Health planning and policy development, Primary health care, Family health, Demography, nutrition, Biostatistics, Environmental health and occupation health, medical sociology and anthropology, control of communicable diseases, health economics.

**1987-1991**                    **Bachelor Degree in Dental Surgery (BDS)**, University of Nairobi.

**Secondary education**

**1985 - 1986**                    **Secondary School (A- Level):** Kenya Advance Certificate of Education (K.A.C.E), Loreto convent Limuru.

**1981 - 1984**                    **Secondary school (O-Level):** School Kenya Certificate of Education (KCE), Karoti girls' secondary.

**Primary education**

**1974 - 1980**                    **Certificate of primary education (CPE)**, Kagio primary school.

**SCHOLARSHIPS AND AWARDS WON**

**1987-1991**                    Government of Kenya scholarship to pursue Bachelor of Dental Surgery (BDS) at the University of Nairobi

**1996-2000**                    Government of Kenya scholarship to pursue Masters of Public Health at the university of Nairobi.

**1999-2000**                    Research grant from USAID to undertaken masters research on the Impact of Peer Education on Behaviour of Female Sex Workers in two Different Areas in Nairobi, Kenya

**2008-2011**                    Grant from the Deans committee, University of Nairobi for PhD study on Impact of Health Education on Oral Health and Oral Health Related Quality of Life among Persons Living with HIV in to Comprehensive Care Centres in Nairobi.

**WORKING AND TEACHING EXPERIENCE**

**Feb 2012 to Date**                    **Associate professor**, Department of Periodontology/ Community and Preventive Dentistry, School of Dental Sciences, University of Nairobi.

**Feb 2005 to Feb 2012**                    **Senior Lecturer**, Department of Periodontology/Community and Preventive Dentistry, School of Dental Sciences, University of Nairobi.

**April 2001 to Feb 2005**                    **Lecturer**, Department of Periodontology/Community and Preventive Dentistry, School of Dental Sciences, University of Nairobi.

**March 1998 –April 2001**                    **Tutorial fellow**, Department of Periodontology/Community and Preventive Dentistry, University of Nairobi.

**1996-1998**                    **Senior Dental officer**, Ministry of Health, Embu Provincial General Hospital.

**1993 - 1996**                    **Dental officer I**, ministry of health, Embu provincial General Hospital.

**1991 - 1992**                    **Dental officer II (intern)**, Kenyatta National Hospital.

**2002 – 2003:**                    **Part-time lecturer**, Research methodology course for diploma in community health students, AMREF.

**2002 – 2003:** **Part-time lecturer**, Research for health and development courses, AMREF.

**1998-2006** **Geographical Practice/private practice**, school of Dental Sciences

### **LEADERSHIP AND ADMISTRATIVE POSITIONS**

**Jan 2013- Jan 2017** **Dean**, School of dental Science, University of Nairobi. Duties included Chairing School Board, School Board of Examiners and School Management Board. Supervising day to day running of the school and managing the Dental Hospital.

**2008-Jan 2013** **Chairman**, Department of Periodontology/Communiity and Preventive Dentistry.  
Duties included supervision of day-to day running of the department including teaching and examination.

**April 2002-Aug 2008** **Head of Division**, Community and Preventive Dentistry.  
Duties include co-ordination of teaching of community and preventive dentistry to undergraduate and research methodology, primary oral health care and biostatistics to postgraduate students in the school.

**Jan-Feb 2000, Feb-Mar 2001, June 2001-June 2002, Feb 2003, June 2004**  
**Acting chairman**, Department of Periodontology/Community and preventive Dentistry .

#### **Other leadership positions held**

**February 2017- to Date** Patron, African Dental Students Associations (AFRO-DSA)

**Acting Principal, College of Health Sciences:**

7-10 December 2015, 10-16<sup>th</sup> April 2016, 22rd July 2016, 13-19 December 2016.

**March 2015 to Dec2017** **Vice Chairman**, Mater Hospital Governing council, Chairman executive committee and health and standard committee.

**2014 to sep 2017** **President IADR**, East and Southern Africa Division

**2014-to date** **Chairperson**, Board of Management, Kinyaga Secondary School

**1994-1996** During my period at Embu provincial general hospital I acted as the Provincial Dental Officer, District Dental Offices and head of the Dental unit on several occasion

**1987** **Recruit in-charge**, Embu Barrack at the National Youth Service (NYS) during pre-University training.

**POST GRADUATES RESEARCH SUPERVISION COMPLETED THESIS (MASTERS)**

1. **Student**      **Dr Osundwa Tom; 2005**  
**Title:** Pattern of cleft lip and palate as seen in various Kenyan hospitals. Masters in Dental Surgery (MDS), Oral and Maxillofacial surgery.
  
2. **Student:**      **Dr Kennedy Koech; 2005**  
**Title:** Pattern of adult HIV-infection associated oro-facial lesions and their relationship with ARV therapy, immune status and tuberculosis in a Nairobi centre. Masters in Dental Surgery (MDS), Oral and Maxillofacial surgery.
  
3. **Student:**      **Dr Njoroge Nancy W; 2007**  
**Title:** Early Childhood caries among 3-5 year olds and their caregivers' oral health knowledge, attitude and practice in Kiambu District, Kenya. Masters in Dental Surgery (MDS), Pediatric Dentistry.
  
4. **Student**      **Dr silvia Kassami Matalanga; 2009**  
**Title:** Oral health status of children aged 3-12 years in relation to their mothers' oral health status. Masters in Dental Surgery (MDS), Pediatric Dentistry.
  
5. **Student**      **Dr Gichu Nicholas;2009**  
**Title:** Dental phobia and dental caries experience among patients age 5 year in Nairobi. Masters in Dental Surgery (MDS), Pediatric Dentistry.
  
6. **Student**      **Dr Nyamu Emily; 2009**  
**Title:** IRF6 gene variation in a Kenyan population with non-syndromic cleft lip and palate. Masters in Dental Surgery (MDS), Oral and Maxillofacial surgery.
  
7. **Student**      **Dr Sanya Okumu; 2009**  
**Title:** Clinicohistopathological variations of peadiatric orofacial malignant neoplsms. Masters in Dental Surgery (MDS), Oral and Maxillofacial surgery
  
8. **Student**      **Dr Kamau Martin; 2010**  
**Title:** Clinic-histopathological variations and effectiveness of diagnostic methods of maxillofacial sarcomas – a 10 year audit. Masters in Dental Surgery (MDS), Oral and Maxillofacial surgery.
  
9. **Student**      **Dr Ndungu Mwash; 2010**  
**Title:** Candida and denture habits among Complete Denture. Masters in Dental Surgery (MDS), Prosthodontics.
  
10. **Student**      **Dr James Nyaga; 2010**  
**Title:** Internal Morphology in First Permanent Molars in A Kenyan population of African decent. Masters in Dental Surgery (MDS), Prosthodontics.

- 11. Student**      **Dr Amritpal Kaur Kalsi; 2010**  
**Title:** Dental Radiographic age assessment of the Kenya Child population; a comparison of three methods. Masters in Forensic odontology, University of Western Cape
- 12. Student**      **Dr Kimei Kibet; 2010**  
**Title:** Oral health status among children with heart defects in Nairobi and their caregivers oral health care knowledge, attitudes and practices. Masters in Dental Surgery (MDS), Pediatric Dentistry.
- 13. Student**      **Dr Kassim B. Alasow; 2011**  
**Title:** Efficiency of Light curing Units in Nairobi Kenya. Masters in Dental Surgery (MDS), Prosthodontics.
- 14. Student**      **Dr Immaculate Opondo; 2011**  
**Title:** Effect of dental caries and malocclusion on oral health related quality of life of 11-14 years old children in Viwandani slum, Nairobi. Masters in Dental Surgery (MDS), Pediatric Dentistry.
- 15. Student**      **Dr Njama June; 2012**  
**Title:** Oral health and nutritional status of children with healing disability in comparison to those with normal healing in Nairobi. Masters in Dental Surgery (MDS), Pediatric Dentistry.
- 16. Student**      **Dr Ariemba Rael (MDS Prosthodontics); 2014**  
**Title:** Reliability of nasal and inter-canthal width to determine the mesio-distal widths of the maxillary anterior teeth in a Kenya population.
- 17. Student**      **Josca Ogola (Master of Science in Public Health- Kenyatta University); 2014**  
**Title:** Oral health knowledge, attitudes and practices among school going children in Nairobi.
- 18. Student**      **Jethro wambugu (MDS Periodontology) 2014**  
**Title:** Occurrence of Red Complex and Aggregatibacter Actinomycetemcomitans In Subgingival Plaque Among Patients With Periodontal Disease At The Kenyatta National Hospital
- 19. Student**      **Gaichu Joyce (MDS Prosthodontics) 2014**  
**Title:** Root and canal morphology of permanent mandibular incisors in a Kenyan population
- 20. Student**      **Dr Kirimi James Mung'atia (MDS OMFS) 2015**  
**Title:** Characterization of Mutations in exons 6 and 7 of The TP 53 gene in oral squamous cell carcinoma in Kenya
- 21. Student**      **Dr Angela ombuna(MDS Prosthodontics) 2016**  
**Title:** Assessment of geometry of tooth preparations on dies for full crowns and bridge retainers in selected dental laboratories in Nairobi, Kenya

**POSTGRADUATE DIPLOMA****1. Student Kyale Davis Sumbi (Post-graduate Diploma in Biomedical (Research Methodology) 2014**

**Title:** Dental caries experience and associated risk factors among 12 year old primary school children in Njiru district, Nairobi county.

**COMPLETED THESIS (PhD)****1. Student Regina Mutave. 2015**

**Title:** Effect Of Posters And Mobile-Health Education Strategies On Teething Beliefs And Oral Health Knowledge Among Mothers Attending Selected Well-Baby Clinics In Nairobi.

**ONGOING SUPERVISION (PhD)****1. Student Dr Mathew Akama. University of Nairobi.**

**Title:** Effect of Platelet-Rich-Plasma on Healing of Mandibular Fractures Treated with Maxillomandibular Fixation (MMF) in Human Patients and Experimental Animals. Student at data collection stage. Applied for support from National Research Funds.

**2. Student Dr osiro Olivia MA. University of Nairobi**

**Title:** Development of a Dental Cement using locally available materials in Kenya.: at Data collection stage. Student has received funding from CARTA and DAAD and has applied for funds from National research funds.

**3. Student Lucy Gakuya. University of Nairobi.**

**Title:** Determinants of cervical cancer screening compliance among female students of university Nairobi Parkland campus.(Report writing stage)

**4. Student Dr Wangari Veronicah Wanjiru. University of Nairobi**

**Title:** Risk Factors of Periodontitis and Salivary Levels of Matrix Metalloproteinase-8 in Patients with Periodontitis in Kenya (Proposal Development stage)

**5. Student Dr Martin Kamau. University of Nairobi**

**Title:** Evolution of TMJ ankylosis : A clinic-pathologic and molecular study. (Data Collection stage)

**ONGOING SUPERVISION (Masters)****1. Student Dr Alfred O. Owiti (Msc International Health KEMRI – ITROMID).**

**Title:** Oral health status and oral health-related quality of life of adult patients attending the dental unit at Mathari Hospital, Nairobi. (Awaiting defense)

**2.Student Dr David Kyale (MDS Periodontology-University of Nairobi).**

**Title:** Fusobacterium Nucleatum and Preterm low Birth Weight (Proposal Development stage)



3. Student. **Dr Rose Wanjohi. (MPH- University of Nairobi).** Pre-Term Low Birth Weight and maternal periodontal Status among mothers attending a maternity hospital in Nairobi, Kenya (Proposal development stage)

### **PHD EXAMINED**

**Student** **Eyitope Ogunghenro ogunbodede** PhD Thesis, University of Western Cape

**Title** Implementation of Oral Health Policies in African countries: South Africa and Nigeria as case studies

**Student** **Evelyn Wagaiyu.** PhD Thesis. Univeristy of Nairobi.

**Title** A Comparative Study to Assess Interrelation I Polymorphisms and their Relationship with Chronic Periodontitis in two Kenya Coastal Communities. Mentored the student during her PhD.

**Student** **Regina Mutave James.** PhD Thesis. Univeristy of Nairobi.

**Title** Effect of posters and mobile-health education strategies on teething beliefs and oral health knowledge among mothers in Nairobi. Mentored the student during her PhD.

**Student** **Margaret N. Muiva.** PhD Thesis. University of Nairobi

**Title** Assessment of quality of life issues of women with gynaecological and breast cancers in Kenya

**Student** **Drusilla Gekondo Moke Makworo**

**Title** A framework for contextualization of family centred care in the management of hospitalised children in Kenya

### **UNDERGRADUATE SUPERVISION**

#### **SUPERVISED OVER 100 UNDERGRADUATE RESEARCH PROJECTS**

Two of the projects won the Hatton award, IADR Eastern and Southern Africa Division (Liza Mwangi 2010/2011, Munyao J 2004/2005) and 12 published in peer reviewed journals.

### **PROFESSIONAL DEVELOPMENT**

**28<sup>th</sup> Feb-1<sup>st</sup> March** Good Corporate governance and Risk Management best practices

**24<sup>th</sup>-27<sup>th</sup> March 2015** Leadership and Health system management Trainer of facilitators

**6<sup>th</sup>-8<sup>th</sup> October 2010, 9<sup>th</sup>-11<sup>th</sup> February 2011, 12<sup>th</sup>-14<sup>th</sup> April 2011 and 8<sup>th</sup> -10<sup>th</sup> June 2011**

Leadership Development (LDP) for Health

**1<sup>st</sup> to 12<sup>th</sup> August 2011** **Advanced research methodology** (qualitative data analysis using atlas)

<b>9<sup>th</sup> to 20<sup>th</sup> August 2010</b>	<b>Advanced research methodology</b> (Epidemiological modeling, network analysis in epidemiology with R, Geographical information systems Arcgis, geographical analysis with Arcgis). Centre for HIV prevention and research,
<b>3<sup>rd</sup> to 14<sup>th</sup> August 2009</b>	<b>Advanced research methodology</b> (statistics refresher course with STATA, epidemic modeling with MS excel, Stella and R, integrating biomarkers to population based surveys). Centre for HIV prevention and research.
<b>14<sup>th</sup>-18<sup>th</sup> December 2009</b>	<b>Scientific communication and publishing.</b> Training centre in communication (Nairobi, Kenya),
<b>August 21<sup>st</sup> -1<sup>st</sup> September 2006</b>	<b>Data handling, biostatistics and use of STATA 9</b> course at UNTID.
<b>1996-1997</b>	<b>Computer training:</b> Word processing: word perfect 5.0, Statistical packages: SPSS for windows, SPSS (MS-DOS), EPI info 4, 6 Databases: MS-DOS/SPSS for windows Operating systems: MS-DOS
<b>1<sup>st</sup> to 3<sup>rd</sup> July 2002</b>	Bioethics in human research training
<b>17<sup>th</sup> to 16<sup>th</sup> August 2002</b>	Atraumatic restorative techniques, hands-on course

### **PROFESSIONAL RECOGNITION**

<b>2005</b>	Public health specialist by the Kenya Medical Practitioners and Dentists Board
<b>1992</b>	Dental surgeon registered with the Kenya Medical Practitioners and Dentists Board of Nairobi.

### **LICENSING**

Licensed to practice Dentistry in Kenya by the Kenya Medical Practitioners and Dentists Board

### **ACADEMIC APPOINTMENT**

**2002-2007** External examiner, Research projects, Faculty of Community oral health, Kenya Medical Training Institute (KMTI)

### **UNIVERSITY COMMITTEE APPOINTMENT**

**Sep 2015-** Member of students' security and safety committee

**2016** Member online application system launched on 14<sup>th</sup> March 2016

### **COLLEGE COMMITTEES**

**January 2017-to date** Member, board of Postgraduate studies committee–KAVI-Institute of Clinical Research

**June 2016 to date** Senate representative, board of Directors–KAVI-Institute of Clinical Research

**Feb 2013-feb 2017** Member, college corruption prevention committee

**2002-2006** Member of college show committee

**2008** Member, customer satisfaction survey, chaired by Professor J.K.Wangómbe.

**2008** Member, College research committee chaired by Professor Kokwaro.

### **SCHOOL COMMITTEES**

**2008, 2013** Chairperson, school mentorship committee

**2006-Feb 2010:** Chairman, school development committee

**2003-2008** Coordinator of postgraduate teaching in research methodology and biostatistics

**2003-2006** School representative, Kenya Bureau of Standard

**2003-2008:** Secretary, school of dental sciences students counseling team.

**2000-2005** Member, of school Income Generating Activities committee (IGA).

**2002 to 2013** Chairperson, school UNES committee

### **DEPARTMENTAL RESPONSIBILITIES**

**February 2009-2013** Chairman, Duties include, proper management of departmental resources, monitor and report academic progress, staff welfare (facilitate training, recruitment and promotion) and calling and

	chairing departmental meetings, attending School Management Board.
<b>2002 to present</b>	supervising postgraduate's thesis
<b>2000-2005</b>	<b>Head</b> , departmental Income Generating Activities committee (IGA).
<b>1998 to present</b>	Teaching both under-graduate and postgraduate, students, supervising research projects, community outreach programmes and clinical sessions.

### **PUBLICATIONS (PEER REVIEWED)**

1. **Gathece LW**: Prevalence and trend of oral sex among female sex workers in two slum areas in Nairobi. African Journal of oral health. 2001; 1(2): 17-18.
2. AyotiJ O **Gathece L W**, Wakiaga J: Reasons as to why patients change dentists. African Journal of oral health Sciences.2002;3 (2):129-132.
3. **Gathece LW**, Gichangi PB, Thenya S, Kamau J, Kiragu J, Ngugi E, Kigondu C. Prevalence of domestic violence among clients seeking emergency Department services in a private hospital, Nairobi, Kenya. J Obstet Gynaecol Eastern Central Africa. 2004; 17:9-18.
4. Ndung'u PM, **Gathece LW**, Chindia ML: Reasons to study dentistry: present attitudes and career goals among university of Nairobi dental students. African Journal of oral health Sciences.2003; 4 (3): 233-235
5. Nyamu EN, Masiga MA, **Gathece LW**, Mutara LN: Knowledge, attitude and practices of caregivers attending the Kenyatta National hospital mother and child Health clinic towards the oral health of their children. African Journal of oral health Sciences. 2003; 4 (3) 236-237.
6. Ngatia EM, **Gathece LW**, Mutara LN, Macigo FG, Mulli TK. Baseline survey on oral health, feeding patterns and nutritional status of the old people in Dagoretti Division,

Nairobi District. HelpAge international, Africa Regional Development centre 21-23, April 2004

7. Wang'ombe JK, Alberg BM, Partet AM, Muriithi PJ, **Gathece LW**, Njeru GR, Muriithi K, Mwiti C Njeru E, Waweru M. Positioning research to support community effort to reverse HIV/AIDS among youth in Maragwa and Kirinyaga districts – Kenya. The International Workshop on Learning and Empowerment: Key Issues in Strategies for HIV/AIDS Prevention. UNESCO-Institute of Education publication, 2004.
8. Mwang'ombe E, **Gathece LW**, Macigo FG, Salamba KO, Mutara LN, Kibugi EW. Hereditary ectodermal dysplasia: a case report. African Journal of oral health sciences. 2004; 5 (2):269-270.
9. Wagaiyu EG, Mulli TK, Ngatia EM, Macigo FG, **Gathece LW**, Mutara LN. Oral health status of an elderly population in Dagoretti, Nairobi. African Journal of oral health sciences. 2004; 5(2), 265-268.
10. Mutara LN, Mulli TK, Ngatia EN, Macigo FG, **Gathece LW**, Wagaiyu EG. Oral health seeking behaviour among the elderly in a Kenyan population. African Journal of oral health sciences. 2004; 5 (2):24-29.
11. Apadet LO, **Gathece LW**, Kisumbi BK, Mutave RJ. Management of dental waste practitioners in Nairobi. African Journal of Oral Health. October 2004
12. Macigo F G, **Gathece LW**, Guthua SW, Njeru E N, Wagaiyu EG, Mulli TK: Influence of oral hygiene practices on the risk of oral Leukoplakia. East African Medical Journal .2006;83(4):73-8.
13. Koech KJ, Chindia ML, Wakoli KA, **Gathece LW**. Prevalence of oral lesions in HIV infection and their relationship with CD4 count at a Nairobi centre. African journal of oral health sciences. 2008; 5(2):4-9.
14. Ngatia EM, **Gathece LW**, Macigo FG, mulli TK, Mutara LN, Wagaiyu EG. Nutritional and oral health status of an elderly population in Nairobi. East African Medical Journal. 2008; 85(8):378-385.

15. Sabaya A, Limo AK, Gichana JO, Dimba EAO, **Gathece LW**, Mutave RJ. Compliance to cross infection control measures among dental students and support staff at the university of Nairobi Dental Hospital. Journal of the Kenya Dental Association. 2009;1(2):26-31.
16. Kagereki E, Lesan WR, Wakaiga JW, **Gathece LW**. Radiographic yield. Criteria and rationale for prescribing bilateral bitewings radiographs. Journal of the Kenya Dental association. 2009; 1(2):43-46.
17. Kyale DK, Mutave RJ, **Gathece LW**, Kisumbi BK. Sources of oral health education motivation, attitudes and practices in adolescents 12-13 years old in Nairobi. African Journal of oral Sciences. 2009; 5(4):15-20.
18. Wangari VW, **Gathece LW**, Masiga MA. Knowledge and perception regarding the association between digital sucking, tongue thrusting and anterior open bite among parents of children aged 3-12 years old in Nairobi. African Journal of oral Sciences. 2009; 5(4):9-12.
19. Mohamed A.O, Mutara L.N, **Gathece L.W**. Oral manifestation of diabetes mellitus, relation to blood sugar levels, type and duration of diabetes. African Journal of oral Sciences. 2009;5:16-20.
20. Njoroge NW, Kemoli AM, **Gathece LW**. The prevalence of ECC among 3 to 5 year-olds in Kiambaa division, Kenya East African Medical Journal. 2010; 87: 3. 134 – 137.
21. Ganatra FA, Kisumbi BK, **Gathece LW**. Selection of posterior dental restoratives materials by dentists in Nairobi, Kenya. Journal of Kenya Dental Association. 2009;1:59-64
22. Gakonyo J, Mutave RJ, Matu NK, **Gathece LW**. Knowledge, practices and attitudes of clinical year dental students at the University of Nairobi towards HIV/AIDS patients. Journal of Kenya Dental Association , June 2010.
23. Butt FM, Chindia ML, Kenyanya T, **Gathece LW**, Rana F. An audit of ranulae occurring with the human immunodeficiency virus infection. Journal of Oral and Maxillofacial pathology. 2010;14:33-35.

24. **Gathece LW**, Wang'ombe JK, Ng'ang'a PM, Wanzala PN. Effect of health education on oral hygiene and gingival status of persons living with HIV attending two Comprehensive Care Centres in Nairobi, Kenya. African Journal of AIDS Research. 2011;10:481-486.
25. Kisumbi KK, Alubale EA, Simila HO, **Gathece LW**. Indications for intial placement of amalgam and composite restorations. African Journal of oral sciences. 2011;5: 25-31.
26. **Gathece LW**, Wang'ombe JK, Ng'ang'a PM, Wanzala PN. Oral health seeking behavior of persons living with HIV at two Comprehensive Care Centers in Kenya. African Journal of oral sciences. 2011;5: 18-24 .
27. **Gathece LW**, Wang'ombe JK, Ng'ang'a PM, Wanzala PN. Effect of health education on knowledge and oral hygiene practices of persons living with HIV at two Comprehensive Care Centers in Kenya. East African Journal of Public Health .2011; 8(3):207-11.
28. Kamau MW, Chindia MC, **Gathece LW**, Dimba EO. Clinico-Histopathological types of maxillofacial malignancies with emphasis on sarcoma: a 10- year review. EAMJ. 88(2) 2011:39-45
29. Muriithi NJ, Maina SW, Okoth J, **Gathece LW**. Internal root morphology in maxillary first permanent molar in a Kenya population. East African Medical journal. 2011: 86-92
30. **Gathece LW**, Mutave JR, Matu NK, Mua BN. Willingness of dentists to treat Persons Living with HIV/AIDS in Kenya. Journal of The Kenya Dental Association. 2011;2(3): 210-214.
31. Sanya BO, Chindia ML, **Gathece LW**, Dimba EO, Odhiambo W. Clinical features and types of paediatric orofacial malignant neoplasms at two hospitals in Nairobi, Kenya. Journal of Cranio-Maxillo-facial Surgery. 2012, 40(1)1-7 e8

32. Muriithi NJ, Maina SW, Okoth J, Gathece LW. Internal root morphology in Mandibular first permanent molar in a Kenya population. East African Medical journal. 2012; 89:166-171
33. Kassim BA, Kisumbi BK, Lesan WR, **Gathece LW**. Effect of light cure intensity on the cure characteristics of photo-polymerised dental composite. East African Medical journal. 2012; 89: 159-165.
34. Gichangi P, **Gathece L**, Estambale B, Temmerman M. CD4 T-lymphocytes subsets in women with invasive cervical cancer in Kenya. East African Medical journal. 2013; 90: 310-316.
35. Kassim BA, Kisumbi BK, Lesan WR, **Gathece LW**. Effect of light curing unit characteristics on light intensity output, Depth of cure and surface micro-hardness of dental resin composite. East African Medical journal. 2013; 90:288-296
36. Uumburu NMD, Kihara EN, Ocholla TJ, **Gathece LW**. Knowledge, Attitude and Practice on digital radiography among dentists in Nairobi. African Journal of oral sciences. 2014;1; 9-13
37. **Gathece LW**, Wang'ombe JK, Ng'ang'a PM, Wanzala PN. Dental caries and Oral Health Quality of Life among persons living with HIV attending two Comprehensive Care Centres in Nairobi, Kenya African Journal of oral sciences. 2014;2; 17-21
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1. Opondo IA, Gathece LW .Dental Caries and Oral Health-Related Quality of life among urban slum children in Kenya. Submitted to East Africa Medical Journal, December 2016.

### **OTHER PUBLICATION**

1. Macigo FG, Guthua SW, **Gathece LW**. Challenges in tobacco control in Kenya. KDA News letter; September 2002.
2. Co-author/chairperson in the Ministry of Health report: Kenya National Oral Health Survey 2015

### **Publications for award of degrees**

1. Thesis for Doctor of Philosophy degree (2011). Title “Impact of Health Education on Oral Health Status and Oral Health Related Quality of Life in two Comprehensive Care Centres in Nairobi”. Available in University of Nairobi digital repository
2. Thesis for Masters in Public Health (MPH). Title “ impact of peer education on behaviour of female sex workers in two different areas in Nairobi, Kenya”. Available in University of Nairobi digital repository

### **Papers under preparation**

1. **Gathece LW**, Wang’ombe JK, Ng’ang’a PM, Wanzala PN. Effect of health education on sugar intake among Persons Living with HIV/AIDS attending two Comprehensive Care Centres in Nairobi, Kenya.
2. **Gathece LW**, Wang’ombe JK, Ng’ang’a PM, Wanzala PN. CD4 count, anti-Retroviral Therapy and gingival inflammation of persons living with HIV attending two Comprehensive Care Centres in Nairobi, Kenya.
3. **Gathece LW**, Wang’ombe JK, Ng’ang’a PM, Wanzala PN. Sugar intake and oral health status of PLWHAs attending two Comprehensive Care Centres in Nairobi.
4. **Gathece LW**, Wang’ombe JK, Ng’ang’a PM, Wanzala PN. Effect of health education on oral mucosal lesion among PLWHA attending two Comprehensive Care Centres in Nairobi.
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### **PEER REVIEWED E-LEARNING MODULES**

1. **Gathece LW**, Mua BN, Mutave RJ, Macigo FG. Behavioural sciences e-learning module (15 chapters). Complete and uploaded on e-learning platform.
2. Mua BN, **Gathece LW**, Mutave RJ, Macigo FG. Health education e-learning module (11 chapters). Under peer review.
3. Mutave RJ, Mua BN, **Gathece LW**, Macigo FG. Primary Health Care e-learning module (8 chapters). Under peer review.

### **PAPERS PRESENTED IN SCIENTIFIC CONFERENCES**

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4. Kavia D, **Gathece LW**, Mulli TK, Ng'ang'a PM. A survey of orthodontic treatment experiences among Kenyans. The 16<sup>th</sup> International Association for Dental Research (IADR). Second joint congress of the Southern Africa and East and southern Africa divisions, Durban 15-17<sup>th</sup> August 2002.
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44. Wambugu JC, Matu NK, Mulli TK, **Gathece LW**. Occurrence of red-complex aggregatibacter actinomycetemcomitans among patients with periodontal disease at the university of Nairobi dental hospital. The 32<sup>rd</sup> KDA Conference and exhibition. Sarova Panafric hotel 30 October -1<sup>st</sup> November 2014
45. Seher Khawaja, **Gathece L.W**. Ocholla T.J. Correlation of hand traced lateral cephalograms with digitally computerized lateral cephalograms. IADR general session and exhibition. Capetown 25-28 June 2014.
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47. Dimba E, Njiru W, **Gathece LW**, Mutave RJ, Ogwel A, Tobacco cessation through use of oral health care providers in Kenya. Global Tobacco Treatment Summit at the Mayo Clinic Nicotine Dependence Center from May 21<sup>st</sup> – 25<sup>th</sup>, 2016. .
48. Nyongesa CK, **Gathece LW**, Muasya MK, Mutave RJ. Oral health status of HIV positive children aged 5-12 years at a referral hospital in Nairobi, Kenya. The 34<sup>th</sup> Kenya Dental Association Scientific Conference and Exhibition, Pridelnn Beach Resort and Convention Centre, Mombasa. October 19<sup>th</sup> -22<sup>nd</sup> 2016.

### **COLLABORATIONS AND LINKAGES**

1. Negotiated a collaboration with the University of Columbia. The MOU was signed by the Vice-Chancellor in 2014. This involves staff exchange and joint application of funds. The two Universities organized a regional oral Summit and training in telemedicine for student and staff in the School.
2. Negotiated collaboration with the National Hospital Insurance Fund (NHIF). The MoU was signed by the Vice-Chancellor in 2014. Currently the NHIF pays for patients seeking treatment in the School including the Dental plaza. I requested for the Dental hospital to

be put under category A with other government institution so as to benefit from their support and increase capitation to the school. The plans are underway.

3. Negotiated collaboration with Wrigleys EA limited and the Ministry of Health for the funding of the first ever National Oral Health Survey at a cost of over Ksh 3 million. .MOU signed by the Vice-Chancellor in 2014. The survey generated information for future planning and policy development in the area of oral health. Currently the school is involved in development of the second Oral Health Policy.
4. Negotiated collaboration with global bridges for the funding of tobacco cessation. This lead to the training of all Dental student in the University of Nairobi, Moi university, all Community Oral Health students at the Kenya Medical training and Several Oral Health care Providers being trained in Tobacco cessation. The school runs a tobacco cessation clinic and other clinics in the country are involved in tobacco cessation.
5. Negotiated collaboration with Intra-Acp mobility training in African Universities (P4HPT). Signed in 2014 by the Vice Chancellor.
6. Facilitated student exchange with the University of Ghana, with four students of their students undertaking elective training at the school in 2016. Other University worldwide have also sent student for remedial and elective training in the school.

#### **ACHIEVEMENT AS DEAN SCHOOL OF DENTAL SCIENCES (JANUARY 2013-JANAURY 2017)**

##### **As the Dean of the School lead the team that was involved in the**

- Accreditation of the school of dental sciences by the East African Medical and Dental council.
- Accreditation of the school programs by Commission for university education

##### **Some other achievements**

- Increase module II fee collection from 7 million to 23 million. This was through increased in number of student's enrollment and efficiency in fee collection.
- Launch of the school of Dental Sciences Journal (Journal of African oral health Scinces-2015). This is a peer reviewed dental journal currently supported by Colgate Palmolive
- Tiling and painting of ground floor, and repair of oral diagnosis clinic by Wrigley's EA limited

- Painting of first floor, branding of the Paediatric clinic to make it child friendly and branding of Periodontology clinic with oral health messages for patients by GSK
- Placement of a Blue CAD/CAM machine by Sirona company. Staff and students were also trained on the use of the new technology. The machine will be used to fabricate crowns and bridges for implant dentistry and other procedures using computers. This will reduce the time taken since the patient can have the crown done in one visit and level of accuracy for the crown improved.
- Donation of a dispenser for dental materials by 3M. The machine ensures efficiency of mixing of material and cuts the amount of material used by half.
- Lead the school to join the expertise dental program. The program involves donation of free dental impression materials (filtek Z250 XT, single bond universal and Impregum) equal to the number of final year students equivalent to the amount of material purchase. This led to reduction in the amount of money spent in purchase of impression materials in the school.
- Painting of the outside school with income from the school. Purchased the gutters and committed money for the work. Once this is completed, the physical outlook of the school will be improved.
- Repair of the roof using income generated at the school
- Purchase and installation of biometric class attendance for students. This improved attendance and discipline among students
- Tiling of the first floor using funds from TUPAC project.
- Improved the level of cleanliness. This led to improved level of cross infection control and work environment.
- Computerization of cash office. This meant more efficiency.
- Development of program for computerization of the medical records. The phase one is complete and ready for implementation.
- Donation of full megagen surgical kit and two fixtures for implant by Eurodent Kenya at a cost of Ksh 340,000.00 handpiece at a cost of Ksh 22,000.00 and two (2) phantom heads at a cost of Ksh 240,000.00 by Eurodent. The company through Sirona has promised to donate an OPG machine.
- Purchase of a photocopier at Ksh 299,000.00 and three electrical projection screens for lecture theaters 1, 2 and 3 from income generated in the school
- Purchase of security equipments from income generated in the school

- .Received a donation of equipment and teaching materials worth over 5million and a mobile dental unit for use in the outreach program worth Ksh 200,000.00 from Vocational training team, through smile Kenya.
- The school was involved in Smile Kenya and oral health program whose aim is to screen 60,000 people per year. This is in collaboration with Colgate Palmolive and the screening started last year. This has assist the community outreach since the screening in based on the outreach teaching model for the school.
- Organized and supported several continuous professional Development forums in the school funded by various companies.
- Donation of books for palliative care by Kenya Hospice Palliative Care Association
- Purchase and commissioning of eight (8) dental units for the Periodontology clinic at a cost of Ksh 17 million from the University of Nairobi.

#### **ACHIEVEMENT AS CHAIRMAN DEPARTMENT OF PERIODONTOLOGY/COMMUNITY AND PREVENTIVE DENTISTRY**

- Donation of 1500 dental instruments by St Andrews Church at a cost of Ksh 1 500 000.00 for use by the students.
- Support of outreach program: GSK- Ksh750,000.00 per year for 3 years, Wrigleys-550, 000 per year for four years and Colgate Palmolive support for student outreach program
- Donation of two implant kits at a cost of Ksh. 520,000.00 by KOS for use in training of student in implantology.
- Purchased a implant kit at a cost of Ksh 450 000.00 from income generated in the department
- Purchased eight mobile cavitron machines which transformed the Periodontology clinic with all the eight dental units being used to do scaling by the student.
- Introduction of implant dentistry training in the school
- Training in infection control for the support staff by Johnson and Johnson. This was based on international cross infection control guidelines.
- Development of e-learning modules in the school. The initial modules were in community and preventive dentistry. This change the way the College of Health Sciences viewed e-learning for health related courses. This opened door for more modules in diverse disciplines.
- Lobbied for the Internet and computers in the school including training of staff in use of computers

### **RECRUITMENT /PROMOTION AND TRAINING OF THE STAFF AT THE SCHOOL OF DENTAL SCIENCES**

Lobbied for recruitment, training and promotion of staff. Currently one of the staff in the school is undergoing training in Masters in virology in the university of Stellenbosch funded by the Intra-ACP project which I was involved in proposal development and I co-ordinate the project.

### **TEACHING FACILITIES: UPGRADE AND ADOPTION OF MODERN TECHNOLOGIES**

- Initiated and completed the purchase and installation of phantom heads and modular units in the skills laboratory. The funds were sourced from the University of Nairobi.
- Initiated and completed the purchase of a compressor from funds sourced from the University of Nairobi
- Initiated and completed purchase of computer tables at a cost of Ksh 490 000. The funds was sourced from the income generated by the school.
- Purchase of laboratory equipment and furniture using funds generated by the school. This has improved quality of teaching.
- Involved in repair of the dental units which improved the functionality of the dental chairs from 20% to 80%.
- Purchase of LCD for teaching
- Purchase of ten (10) desktop computers for use by the students in the computer laboratory using income generated in the Department
- Purchase of four (4) desktop computers for use in the computer laboratory using intra-ACP funds
- Purchase of 30 phantom head stools at 960 000. Funds sourced from school income generation

### **Improved physical infrastructure**

- Initiated the replacement of the main gate and the front wall by Colgate Palmolive
- Negotiated the upgrading of the reception area and seats for the garden in the school of dental sciences

### **Acquisition of additional teaching facilities**

- Facilitated the Donation of 18 dental units by the University of New York at a cost of Ksh 18 million.

### **Financial achievement**

As a chairman my aim was to achieve sustainability of the department which I achieved by putting in place checks and balances which lead to the department being self sustaining thus running without request for support. The department and a surplus of 1.74 million from having

debts when i took over. This was duplicated during my time as the Dean; I have been able to undertake several repairs and purchase of equipment using money generated in the school. The school is able to pay casuals and for cleaning materials and services.

### **Curriculum development**

I was involved in the review/development of the following curricula

- Bachelor of Dental surgery curriculum review in 2003
- Bachelor of Dental Surgery curriculum review in 2003 and 2013
- Bachelor of Dental Surgery Core-Curriculum by the medical practitioners and Dentist Board.
- Master of Dental Surgery in Periodontology development and ongoing review
- Master of Dental surgery in Prosthodontics development
- Master of Dental Surgery in Oral and Maxillofacial Surgery development and review-passed by senate in 2015
- Master of Dental Surgery in Peadiatric Dentistry development and ongoing review
- Member, Curriculum development for a diploma in research Methodology, African Medical Research Foundation (AMREF) 2002
- Chairman, Curriculum for Dental surgery Assistants development (passed by the school board). 2016
- Master of Dental Surgery in General Dental practice-ongoing
- Leadership and management for health curriculum development and integration in postgraduate and undergraduate programs.

### **Human resource development**

- Awarded scholarship to student through the intra-ACP project. This involves award of scholarship to staff from Kenyan Universities to study in other country. Through this project, the University of Nairobi has support three students to study in Makerere University and one in Stellenbosch. The University through the school of Dental Sciences has received four students and three potential students whose scholarships are being processed reported for Masters in Dental Surgery in September. This will build capacity in the region and Africa at large
- Negotiated for scholarship for one of the tutorial fellow (Dr Peter Okong,o) through the Ministry of Education to study Orthodontics in China. The school has only two orthodontists and his return will improve the capacity for the department.
- Negotiated University of Nairobi scholarship for Dr Opondo who is currently studying Dental Radiology in South Africa and Dr Simiyu is studying endodontics in Philippines.

**Other achievement**

- Negotiated for the introduction of internship program at the school of Dental Sciences. Currently the Ministry of Health sends 7-10 interns per year to the school. This has improved the image of the school since the patients are not turned away and improved efficiency.

**RESEARCH GRANTS**

**June 2018-to Date:** **Principal investigator**, Effect of School-Based intervention on oral health of children in Machakos County. Data collection stage. Funded by Colgate-Palmolive

**2016-to Date** **Co-Investigator**, Effect of Platelet-Rich-Plasma on Healing of Mandibular Fractures Treated with Maxillomandibular Fixation (MMF) in Human Patients and Experimental Animals. Data collection stage. Funded by National Research Funds.

**2016-to Date** **Co-Investigator**, Development of a Dental Cement using locally available materials in Kenya.: at Data collection stage. Student has received funding from CARTA and National research funds.

**2014-2016** **Co-Investigator**, Tobacco Uptake prevention and Cessation (TUPAC) among oral healthcare providers in Kenya, a project sponsored by Global Bridges. The grant worth USD 10,000 was successfully administered at the College of Health Sciences, University of Nairobi and participating institutions included Moi University, Kenya Medical Training College, Ministry of Health and county governments.

**2013-2015** **Co- Investigator**, MEPI seed grant at the College of Health Sciences that trained Nurses in Nairobi County to acquire competency to offer oral health education to mothers attending MCH clinics.

**2015** **Chairperson**, Kenya National Oral Health Survey funded by Wrigley's EA (Ltd). The grant was over Ksh 3 Millions. This was the first Kenya National oral health survey



- 2014-2015** **co-investigator**, Project on Effect of health education on HIV post exposure prophylaxis among dental students and oral health care providers in Kenya- data collection stage. Funded by Prime-Kenya
- 2008** **co-investigator**, project on oral health, feeding patterns and nutritional status among the elderly in Nairobi, Kenya- funded by Helpage Kenya/Helpage international (Ksh 200 000).
- 2004-2005** **co-investigator**, project “In search of “best practices” among youth the youth in Kenya: Project on HIV/AIDS reduction among the youth in Kenya”– a collaborative research between the University of Nairobi, World Vision, Family promotion programs services, Makerere university and the Anglican church-funded by SIDA through SOMA Net (Ksh 60,000,000)
- 2006** **Co-investigator**, project on Reaching the needy children- project funded by FDI/Unilever (Ksh4.5 million)
- 2004** **Principal investigator**, project on the Need to train DSA and formulation of programme document
- 2006** **Principal investigator**, project on Willingness of dentists to treat Persons Living with HIV/AIDS in Kenya- on going.

### **OTHER GRANTS**

- 2013 to date** **Co-ordinator**, Intra-ACP mobility scheme project. Funded by European Union and hosted at the University of Ghana. (2.5Million Euros). The project involves award of scholarship to masters/PhD and staff exchange students in Health sciences in Africa
- 2013-2015** **Team member**, Kenya Smiles Project; A health education and awareness creation project that brought together the Rotary club of Kenya, District 5160 Rotary clubs of California, USA, Ministry of Health – Kenya, University of Nairobi and the Kenya Dental Association. A total of 10,000 children were reached. As a result, the Dental School benefited from donations of dental materials, equipment for dental outreach and oral health education materials valued at approximately USD 52,130, with cash donations to cater for Dental Treatment of slum children and 4 undergraduate scholarships worth USD 4,585. This led to establishment of linkages with the University of California, San Francisco, Berkeley, Arthur Dugoni

School of the University of Pacific, and the Alliance for Oral Health Across Borders.

**2014-todate Part of Columbia University/ University of Nairobi partnership and collaboration.** As a result, I was the Convener of the first East African “Oral Health Summit”, held in Nairobi at the Colombia Global Centres and the Radisson Blue on March 22-23<sup>rd</sup> 2016. The theme of this summit was “*Integrating oral Health in Health*”, and drew participants from the Ministries of Health of Kenya, Uganda and Tanzania; County Governments, Non-Governmental Organisations, Kenya Dental Association among many others. The event was a partnership with Private sector through sponsorship by Unilever. As a result, oral health agenda has gained momentum and is being considered key by many stakeholders.

#### **PROPOSALS UNDER PREPARATION:**

1. Knowledge, Attitude, Behaviour and effect (“Burn out”) among health workers in relation to HIV/AIDS. – completed for submission to the Kenyatta National Hospital/University of Nairobi Ethical and Standards Committee
2. Integration of oral health preventive programs in the Comprehensive care Centres (CCC) in Kenya.
3. Comprehensive dental care for needy children in Kawangware slum.

#### **CONSULTANCIES**

- |                    |   |
|--------------------|---|
| <b>1997 – 1998</b> | Evaluation of the effectiveness of IEC on sexual behaviour of female sex workers in two slum areas in Nairobi, Kenya. |
| <b>2000</b>        | Data analysis/report writing for FIDA project on domestic violence.   |
| <b>2004</b>        | Researcher/advisor in SOMAnet HIV/AIDS project in Mwea and Makuyu divisions.  |

#### **COMMUNITY BASED OUTREACH**

Organized and participated in several community based outreach where patients are educated on prevention and control of oral diseases and treatment of simple oral diseases done.

### **RESEARCH INTERESTS**

1. Anti-Retroviral Therapy (ART) and quality of life among Persons living with HIV/AIDS
2. HIV and oral health
3. Effect of preventive oral health programs on oral health.

### **PARTICIPATION IN NATIONAL MATTERS**

- Dec 2016** National Research Reviewer
- 28<sup>th</sup> July 2002:** **Member of secretariat**, mandated by Ministry of Health to develop the first “Kenya National Oral Health Policy and strategic plan”
- May2002-June 2015:** **Chairperson**, Kenya National Oral Health Survey proposal development secretariat.
- 2003-2006:** **Chairperson**, Technical committee on oral Hygiene products, Kenya Bureau of standard.

### **MEMBERSHIPS OF PROFESSIONAL BODIES**

1. Kenya Dental Association (KDA).
2. Kenya Medical Association (KMA)
3. International Association of Dental Researchers (IADR)
4. Association of Kenya Dental Researchers (AKDR) (Member/Advisor)

### **FACILITATOR IN SEMINAR**

- 1995-1996** **Facilitator**, oral health education programme for primary school teachers in Murang’a district sponsored by Colgate-Palmolive.
- 1995-1996** **Facilitator**, oral health education/ epilepsy for women groups in Kirinyaga sponsored by colgate-palmolive/ Kenya Association for the Welfare of Epileptics.
- 1995** **Facilitator and organizer**, MOH Oral Health Training for Health Workers in Runyenjes, Embu district.

**2010**                      **Facilitator**, Health Systems Research course for senior health managers, KMTTC

### **WORKSHOPS ORGANISED**

**7<sup>th</sup> Feb 2001**                      Silver Springs Hotel on Organizer/ attended KAVI (Kenya AIDS Vaccine Initiative).

**Jan 24-25 2002**                      Kenya Operation smiles on orthodontic management of cleft palate patients.

**13-14 Dec. 2003**                      Member of the scientific committee organizing FDI/CDA continuous Dental Education seminar at Safari park hotel.

**10<sup>th</sup> to 14<sup>th</sup> Sept 2007**                      Basic medical and dental course at the University Dental School.

**4<sup>th</sup> -6<sup>th</sup> March 2010**                      Chairman of the organizing committee/attended a course on comprehensive implantology, at University Dental School.

### **WORKSHOPS CONFERENCES ATTENDED**

**30<sup>th</sup> May 2014**                      Oral health as an intergral componenet of general health workshop organized by the Kenyatta National Hospital. Venue: Lecture theatre 3, School of Medicine, college of Health sciences, University of Nairobi

**4<sup>th</sup> Oct 2013**                      Launch of the Kenya National patients rights charter 2013

**13<sup>th</sup> -17 Sept 2016**                      Key note speaker during the Moi University 11<sup>th</sup> international conference. Where I gave a lecturer on “rethinking oral health care delivery in Kenya”

**Dec 8-11 2013**                      Three day workshop sponsored by FUNZO Kenya to develop curriculum guidelines and framework for university training health care professionals in Kenya. Venue: Sentrin lodge, Elementaita, Kenya

**14-17 may 2001**                      USHEPia workshop, university of Cape-town, South Africa.

**8-10<sup>th</sup> November 2001.**                      Kenya Dental Association Scientific Conference,

- 1<sup>st</sup> -3<sup>rd</sup> July 2002** Bioethics workshop organized by the University of Washington,.
- 13<sup>th</sup> -14<sup>th</sup> December 2003.** FDI/CDA continuous Dental Education seminar at Safari park hotel
- 7<sup>th</sup> Feb 2001.** KAVI (Kenya AIDS Vaccine Initiative) information seminar at Silver Springs Hotel on
- 15-16<sup>th</sup> August 2002.** The 16<sup>th</sup> International Association for Dental Research (IADR). Second joint congress of the Southern Africa and East and southern Africa divisions, Durban
- 17<sup>th</sup> August 2002.** The Atraumatic Restorative Treatment Technique (ART) workshop, Durban, South Africa
- 29-30<sup>th</sup> October 2003.** The 17<sup>th</sup> congress of the International Association for Dental Research (IADR) East and Southern Africa Division, Arusha International Conference Centre (AICC)
- 26<sup>th</sup> –29<sup>th</sup> August 2004** The 1<sup>st</sup> joint congress of the East & Southern Africa and Kuwait divisions: West African and Jordanian sections, Hilton hotel Nairobi.
- August 21-1<sup>st</sup> September 2006** Data handling, biostatistics and use of STATA 9 course at Institute of Tropical and Infectious Diseases (UNTID) from.
- 3<sup>rd</sup> to 14<sup>th</sup> August 2009** Advanced research methodology (statistics refresher course with STATA, epidemic modeling with MS excel, Stella and R, integrating biomarkers to population based surveys). Centre for HIV prevention and research.
- 14<sup>th</sup>-18<sup>th</sup> December 2009.** Scientific communication and publishing workshop. Training centre in communication (Nairobi, Kenya).

- 9<sup>th</sup> to 20<sup>th</sup> August 2010.** Advanced research methodology workshop (Epidemiological modeling, network analysis in epidemiology with R, Geographical information systems Arcgis, geographical analysis with Arcgis). Centre for HIV prevention and research.
- 27<sup>th</sup>- 29<sup>th</sup> October 2010.** East and Southern African Division of the IADR workshop. White Sands Dar es salaam, Tanzania.
- 6<sup>th</sup>-8<sup>th</sup> October 2010, 9<sup>th</sup>-11<sup>th</sup> February 2011, 12<sup>th</sup>-14<sup>th</sup> April 2011 and 8<sup>th</sup> -10<sup>th</sup> June 2011**  
Leadership Development (LDP) workshop
- 1<sup>st</sup>-12<sup>th</sup> August 2011.** Advanced research methodology workshop (qualitative data analysis using atlas).
- 27<sup>th</sup> -30<sup>th</sup> September 2011**  
East and Southern African Division of the IADR workshop. Nicon Hotel, Abuja, Nigeria.
- 27<sup>th</sup> August 2013** Regional Deans' workshop. Istanbul, Turkey.
- 28<sup>th</sup> -30<sup>th</sup> August 2013** FDI Conference, Istanbul, Turkey.
- 26<sup>th</sup> -27<sup>th</sup> September 2013** IADR Conference. Addis Ababa, Ethiopia  
20<sup>th</sup> November 2013 Ethics and research conduct sensitization workshop. Central Catering Unit, University of Nairobi.
- 23<sup>rd</sup> January 2014** Procurement and disposal act (youth and women empowerment. Central Catering Unit, University of Nairobi.
- 17<sup>th</sup> June 2014** Capacity development on effective complains and management for complaints officers and staff. Council chamber, University of Nairobi.
- 27<sup>th</sup>-28<sup>th</sup> August 2014** strategies for performance. Organized by the College of Health Sciences. Maanzoni lodge, Machakos County.
- 2-6<sup>th</sup> February 2015** Tobacco cessation tot workshop. University of Nairobi Dental School
- 24<sup>th</sup>-27<sup>th</sup> March 2015** Leadership and Health systems management training of facilitators. Lukenya Getaway, Machakos county.
- 4-8<sup>th</sup> May 2015** training on PhD Supervision. Maanzoni lodge, Machakos County

**29<sup>th</sup> September-1<sup>st</sup> October 2015**

Annual refresher training of corruption prevention on implementation of corruption mitigation plan and the leadership and integrity act, 2012. Central Catering Unit, University of Nairobi.

**19<sup>th</sup> November 2015** Kenya Dental Association and IADR (E&SAD) scientific conference and exhibition. Boma Inn Hotel, Eldoret.

**MINISTRY OF EDUCATION APPOINTMENTS**

**2014-to date** **Chairperson**, Board of Management, Kinyaga Secondary School.

**July 2011 to date** **Member**, District Education Board (DEB) Kirinyaga North (Mwea West) District.

**2008- December 2015** **Member**, Board of governors (BOG), Kangaru secondary.

**2006 December 2015** **Member**, Board of governors (BOG), Kagio secondary school.

**2002-2009** **Member**, Board of governors (BOG), Mutithi Girls' secondary school.

**1996-2003** **Member**, Board of governors (BOG), Karoti girls' high.

**OTHERS RELEVANT ACTIVITIES**

**2014 to Date** **President IADR**, East and Southern Africa Division

**2012 to 2014** **President elect IADR**, East and Southern Africa Division

**2013-to Date** **Advisory Board Member**, International weekly medical journal ISSN 2321-3485

**2010 to 2012** **Vice-president IADR**, East and Southern Africa Division.

**2010 to Date** **Reviewer**, Journal of the Kenya Dental Association.

**2006** Oral health awareness campaign-Press conferences on oral status in Kenya/oral health and training of Dental surgeons and Dental charges on Kameme FM radio station.

**2006** **Contributor**, oral health column: health magazine .

**2007 to Date** **Assistant editor**, African Journal of Oral Health Sciences – ISSN 1608-7232





**REFEREES****1. Prof. James Machoki****Director, UNITID**

University of Nairobi,  
P.O. Box 19676-00202,  
Nairobi.

**2. Dr. Regina J. Mutave****Dean,**

School of Dental Sciences  
University of Nairobi P.O. Box 19676-00202,  
Nairobi.

**3. Dr. Cosmas Mugambi,****Dental Specialist/ Assistant Director of Medical Services,**

Ministry of Health, Kenya.

Phone contacts: +254721296963/+254710120355

Email: [cosmgambi@gmail.com](mailto:cosmgambi@gmail.com)

Sign \_\_\_\_\_

Monday, 20<sup>th</sup> May , 2018

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