



# OCHIENG' Bernard Owino

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Date of Birth: 7<sup>th</sup> October 1976

## OBJECTIVE

To invest time, energy and resources in translating the skills gained in the Radiological Sciences into safe and sustainable socio-economic development.

## EDUCATION

### **2014-To Date: The Technical University of Kenya**

PhD Research: *"Determination of Tumour Volumes & radiation Dose in Computed Tomography-based Three-Dimensional Conformal Radiotherapy"*

### **2005-2008: University of Nairobi**

Masters of Science (Nuclear Science)

**Thesis:** *Assessment of Radiation Dose in Fluoroscopically-Guided Interventional Procedures*

### **1997-2001: University of Nairobi**

BSc (Physics) -Second Class Honours (Upper Division)

### **1996-1997: Railway Training Institute, Nairobi**

Diploma (I) in Electrical/Electronic Engineering (Credit Pass)

Computer Studies [Ms Office suite & Programming (PASCAL, C++)]

### **1992-1995: Maseno School, Kisumu: Kenya Certificate Secondary Education**

## TECHNICAL QUALIFICATIONS

### **2017: Strathmore University**

Project Management Professional

### **2009-2011: Aga Khan University Hospital (AKUH), Karachi-Pakistan**

Certificate in Radiation Therapy Technology

### **2014-Advances in Medical Physics to Enhance Healthcare in Developing Countries, Trieste, Italy**

**2014- World Nuclear University: School on Radiation Technologies, Dohar, Qatar**

**2011- Fire Marshall's training (G4S)**

**2010- Radiation Protection for Healthcare Professionals (AKUH, Karachi)**

### **2008: UN Department of Safety & Security**

Basic/Advanced Security in the Field-Staff Safety, Health and Welfare

**2008: Training Course: Combatting Illicit Trafficking in Nuclear & Other Radioactive Materials: Windhoek, Namibia (IAEA).**

**2007: Fellowship: Radiological Protection of Patients and Medical Exposure Control: Nuernberg, Germany.** (Includes visit to **Siemens Medical & IBA Wellhoffer Dosimetry**)- IAEA

**2006: Training Course: Authorization and Inspection of Radiation sources in Diagnostic and Interventional Radiology: Nairobi, Kenya (IAEA).**

## MANAGEMENT QUALIFICATIONS

**2018: Certificate in Management & Leadership, The Open University, UK**

**2017: Project Management Professional, Strathmore University, Kenya**

**2013- Nuclear Knowledge Management, Trieste Italy, (IAEA).**

## CERTIFICATIONS

**2010-** Quality Improvement Trimodular Course, Aga Khan University Hospital, Karachi-Pakistan

Project Management Professional (PMP®), Project Management Institute Inc, USA.

## WORK EXPERIENCE

### **Feb 2017-To Date: Medical Physicist/Head of Radiotherapy**

EQURA HEALTH KENYA

- Quality Assurance of machines and patient files
- Treatment Planning and Delivery
- Staff and equipment planning for delivery of efficient, quality and cost-effective healthcare
- Radiation safety of patients, staff and the public
- Developing departmental strategic plans
- Training and professional development of staff
- Research and Development

### **Dec 2014-Feb 2017: Medical Physicist/Head of Radiotherapy**

TEXAS CANCER CENTRE

- Staff and equipment planning for delivery of efficient, quality and cost-effective healthcare
- Treatment Planning and Delivery
- Radiation safety of patients, staff and the public
- Occupational Health and Safety
- Machine QA and inventory
- Developing departmental strategic plans
- Training and professional development of staff
- Research and Development

### **August 2009-Dec 2014: Radiotherapist/Medical physicist**

AGA KHAN UNIVERSITY HOSPITAL, NAIROBI

- Served as Acting Manager-Radiotherapy
- 3D CT Simulation, moldroom, treatment and care of cancer patients using Linacs & Brachytherapy
- Quality assurance of CT Simulator, Varian Linacs & Brachytherapy machines and the RT process in compliance with national regulations and international standards
- Treatment planning and dose calculations using Eclipse software
- Radiation protection of patients, staff and members of the public
- Teaching, Research and Development
- Department's Fire Marshall
- Chairman, Departmental Quality Improvement Committee (QIC)

### **May 2006—July 2009: Part-time Lecturer**

RAILWAY TRAINING INSTITUTE, NAIROBI

Units: Physical Science, Electronics, Computer Applications, Mathematics

### **July 2005- August 2006: Intern-Radiation Protection Board**

NATIONAL RADIATION PROTECTION LABORATORY, MINISTRY OF HEALTH

- Radiation Safety and Health requirements for radiation workers and the public
- Measurement and monitoring of radioactivity in food, chemicals and environment
- International security and safety standards (IAEA) for use, handling, transportation and disposal of radiation sources including radioactive materials and waste.
- Import/Export requirements for radioactive materials and irradiating devices
- Preparedness and response to nuclear and radiological emergencies.
- Inspection and Quality Assurance tests of irradiating facilities to ensure compliance
- Personnel Monitoring using LiF Thermoluminescence Dosimeters (TLD) and Film Badges
- Maintenance and Calibration of radiation detection and measurement instruments

## ACADEMIA

### September 2012 – To Date: Part-time Lecturer

JOMO KENYATTA UNIVERSITY OF AGRIC. & TECHNOLOGY

Units taught:

Radiotherapy, Fluoroscopy, CT, Radiobiology, MRI, Nuclear Medicine, Radiation Physics

### January 2014 – To Date: Part-time Lecturer

THE TECHNICAL UNIVERSITY OF KENYA

Units taught:

Engineering Physics, Biomedical Instrumentation, Solid State Physics, Radiometric Techniques, Basic Physics.

## PUBLICATIONS

- **Ochieng Bernard.** Radiation Dose in Intervetional Procedures; Lambert Acad Pub; 2012; Saarbrucken, Germany.
- G.K. Korir, J.S. Wambani and **B.O. Ochieng.** Optimization of Patient Protection & Image quality in Diagnostic Radiology; E. African Med. J; 2010; Vol 87; No.3.
- Geoffrey K. Korir, Jeska S. Wambani, Ian K Korir, **Bernard O Ochieng.** Establishing the quality management baseline in the use of computed tomography machines in Kenya; J. App. C Med. Phys; 2012, Vol. 13, No. 1.
- G.K. Korir, **B.O. Ochieng**, J.S. Wambani, I.K. Korir and C. Yuko. Radiation Exposure in Interventional Procedures; Rad. Prot. Dosim. 2012, pp. 1-6.

## PROJECTS, SEMINARS & CONFERENCES

- **Manager, Track 12: Nuclear Technology in Medicine, Biology and Non-Power Secors-** International Youth Nuclear Congress, Bariloche, Argentina, March 2018.
- **Panel Manager,** International Youth Nuclear Congress, Hangzhou China, 24th-30th July 2016
- Experimental Verification of TPS software for blocked fields; **IRPA Conference, May 2012, Glasgow, Scotland.**
- Radiological Protection of Patients and Medical Exposure Control (**IAEA project**)
- GlaxoSmithkline Malaria Vaccine Trial (Radiology project)
- Promoting Regional & National Quality Assurance Programmes for Medical Physics in Nuclear Medicine (**IAEA project**)

## CURRICULUM DEVELOPMENT/REVIEW

-Bachelor of Radiography, Jomo Kenyatta University of Agriculture and Technology  
-Bachelor of Radiography, Technical University of Kenya  
-Master of Medical Physics, Technical University of Kenya  
-Master of Medicine (Radiation Oncology), University of Nairobi  
-Master of Science (Medical Physics), Moi University  
-Master of Medicine (Radiation Oncology), Moi University  
-Bachelor of Science (Medical Imaging), Moi University  
-Master of Medicine (Radiology), Moi University

## MEMBERSHIP

-Federation of African Medical Physics Organizations (FAMPO)  
- Eastern Africa Association for Radiation Protection (EAARP)  
- Kenya Cancer Association  
- World Institute of Nuclear Security  
-Young Leaders Network- Youth Agenda  
-Chairman, Maseno Old Boys Association (MOBA)  
-Member, Board of Management, Maseno School

**MILESTONE  
COMMUNITY PROJECTS**

- Development of Maseno School Strategic Plan 2019-2024
- Development of Maseno School Master Plan and the Multipurpose Hall

**REFEREES**

1. Dr. Jeska S. Wambani  
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2. Prof. Paul Baki  
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3. Mr. David Makumi  
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Oncology Services, Aga Khan University Hospital  
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