

# Moi University Staff Profile: DR. B. R. AYUMBA

<p><b>1. Name:</b></p>	<ul style="list-style-type: none"> <li>• <b>DR. BARRY RAMADHANI AYUMBA</b></li> <li>• ORTHOPAEDIC SURGEON</li> <li>• SENIOR LECTURER</li> <li>• SCHOOL OF MEDICINE, DEPARTMENT OF ORTHOPAEDICS AND REHABILITATION</li> </ul>
<p><b>2. Passport photo:</b></p>	
<p><b>4. Biography:</b></p>	<p><i>Currently a committed consultant surgeon, senior lecturer and Chair-Department of Orthopaedics and Rehabilitation, School of Medicine, College of Health Sciences, Moi University, Eldoret, Kenya. Currently an active member of: Kenya Orthopaedics Association (KOA), and Kenya Medical Association (KMA) Professional Bodies.</i></p> <ul style="list-style-type: none"> <li>• <b>Professional Experience</b></li> </ul> <p>2014- date: Senior Lecturer and Chair of Department- Orthopaedics and Rehabilitation, Moi University.</p> <p>2012- 2014: Lecturer and Consultant Surgeon, Department of Orthopaedics and Rehabilitation.</p> <p>1996 - 2012: Lecturer and Consultant Surgeon, (Recognized and Registered by the MPDB as Specialist) Department of Surgery and Anaesthesiology, Moi University</p> <p>2002: Fellow of College of Surgeons of East, Central and South Africa (FCS, (ECSA)), One of the 268 Foundation Fellows of College of Surgeons of East, Central and South Africa.</p> <p>1995 - 1996: Kaplong Hospital, Sotik - Bomet County as Surgeon (secondment).</p> <p>1989 - 1995: Kenyatta National Hospital, Nairobi County while undertaking Postgraduate Surgery course - Senior House Officer (SHO), University of Nairobi.</p> <p>1988 - 1989: Meru District Hospital (Meru County) as Medical Officer I. Trained and supervised Interns and other categories of health personnel.</p>

1987 - 1988: Makueni District Hospital (Makueni County) as a Medical Officer- in-Charge.  
1985 - 1987: Machakos General Hospital (Machakos County) - Initial one year as an Medical Officer Intern (M.O.II), then as a Registered Medical Officer I.

**Teaching experience**

**Tutor:** College of Health Sciences- schools include: Dentistry, Medicine, Nursing and PublicHealth School.

**Course Coordinator:** Community based education and service (COBES V) in the School of Medicine; COBES program coordinator for College of Health Sciences, Moi University.

**Student supervision to completion:**

- Undergraduates- COBES I- V: research activities (field supervision, report writing- several topics based on course objectives, grading reports, etc).
- Post- graduates- Supervised to completion:
  1. Dr. Pule I. Pule (SM/PGORT/04/17)-*Characteristics and treatment outcomes of Patellar fractures in adult patients at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  2. Dr. Yonah O. Opondo (SM/PGORT/04/15)-*patterns and management outcomes of extremity injuries secondary to motor cycle- related accidents at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  3. Dr. Cherop Charles (SM/PGORT/04/15)-*Chronic Osteomyelitis: Clinical characteristics, surgical treatment modalities and early outcomes in patients at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  4. Dr. Rono D. Kipkemoi (SM/PGORT/06/15)-*Inflammatory cytokines levels following various fracture patterns among patients managed at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  5. Dr. Mutiso D. Munyao (SM/PGORT/08/15)-*Patterns, treatment and early complications of degloving injuries at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  6. Dr. Mwaura H. H. (SM/PGORT/07/13)-*Outcome of non-operative treatment of primary osteoarthritis of knee at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  7. Dr. Oeba Jared N. (SM/PGORT/04/14)- *Treatment outcomes of distal tibia fractures among adult patients at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
  8. Dr. Murtaza Mustafa (SM/PGORT/06/14)- *Patterns, treatment and outcomes of acetabular fractures at Moi Teaching and Referral Hospital, Eldoret, Kenya.*

9. Dr. Ahmed S. E. (SM/PGORT/10/14)-*Morphology of the black Kenyan adult distal femur based on normalized ratios- a cadaveric study.*
10. Dr. Okello Stephen Onyango (SM/PGORT/01/13)-*Antimicrobial sensitivity and risk factors for bacterial surgical site infections at MTRH, Eldoret, Kenya.*
11. Dr. Lavalay Daniel- John (SM/PGORT/04/13)-*Treatment outcomes of open tibial fractures using SIGN nail at MTRH.*
12. Dr. Vincent O. Magero(SM/PGORT/10/13)-*Patterns and short-term treatment outcomes of traumatic hip dislocations in adult patients at MTRH, Eldoret.*
13. Dr. Elizabeth Khisa(SM/PGORT/11/13)-*Pattern and initial care of sports injuries among high school rugby players in Eldoret.*
14. Dr. Ochieng Okoth (SM/PGORT/02/11)-*Short- term outcome of surgical treatment of femur diaphyseal fracture in children at MTRH, Eldoret, Kenya.*
15. Dr. Gachathi S. Wanjema (SM/PGORT/01/2012)-*Tibial diaphyseal fractures. Aetiology, morphology and treatment approach in adult patients at Moi Teaching and Referral Hospital, Eldoret Kenya.*
16. Dr. Victor Barasa Lusweti (SM/PGORT/02/2012)-*The course of radial nerve in relation to the humerus. A cadaveric study in a Kenyan adult population.*
17. Dr. Nickson Shango (SM/PGORT/03/2012)-*Patterns and management of pelvic ring fractures at Moi Teaching and Referral Hospital, Eldoret.*
18. Dr. Oliver Ptallah Langat (SM/PGORT/04/2012)-*Pattern of Tp53 and Ki67 in patients with osteogenic and chondrogenic tumours at Moi Teaching and Referral Hospital, Eldoret.*
19. Dr. Josiah Nyakwara Onsare (SM/PGORT/05/2012)-*Characterization of osteoarthritis in patients seen at Moi Teaching and Referral Hospital, Eldoret Kenya.*
20. Dr. Adero, W. (SM/PGORT/01/09)-*Outcomes of total hip arthroplasties in Eldoret.*
21. Dr. Marakalala, P. D. (SM/PGORT/03/09)-*Incidence and management of fracture neck of femur in adults at MTRH.*
22. Mr. Toroitich, S. K. (SPH/PGH/17/09)-*Validity of verbal autopsy use in the KEMRI/ CDC Health demographic surveillance system.*
23. Dr. J. O. Kowiti (SPH/PGH/35/06)-*The relation between non infrastructural visibility aids and crush injuries among commercial bicycle groups in Eldoret municipality, Kenya.*

**Student Examiner:**

- Undergraduates- COBES I- V: internal examiner; Clinicals for medical, dental and physical therapy among others.

- Post- graduates: Internal examiner: Department of Orthopaedics and Rehabilitation and also at the College of Health Sciences. I have moderated/ graded theses of the following:

1. Dr. Collins Chirchir-(SM/PGORT/05/15) entitled ***Health related quality of life and associated factors following major lower limb amputation at Moi Teaching and Referral Hospital, Eldoret, Kenya***
2. Dr. Abdulahi Ali Isaack- (SM/PGORT/04/16)- ***Characteristics and treatment outcomes of paediatric forearm fractures at the Moi Teaching and Referral Hospital, Eldoret, Kenya***
3. Dr. Ashiundu Edwin Miima- (SM/PGGS/01/16)- ***Early treatment outcomes of urethral strictures at Moi Teaching and Referral Hospital- Eldoret Kenya***
4. Dr. Korir M. Tirop- (SM/PGORT/02/15)- ***Prehospital care of patients with lower extremity fractures presenting at Moi Teaching and Referral Hospital, Eldoret, Kenya***
5. Dr. Samuel Nyabega Ateya- (SM/PGFM/03/15)- ***Injury characteristics and sub-acute phase disabilities amongst hospitalized and non- hospitalized road traffic injured patients managed at Webuye County Hospital, Kenya***
6. Dr. Wambugu N. Kevin- (SM/PGR/02/15)- ***Nontraumatic knee pain: Patterns of MRI findings and associated characteristics in St. Luke's Orthopaedic and Trauma Hospital, Eldoret Kenya***
7. Dr. Munene Mwiti- (SM/PGORT/03/14)- ***Functional outcomes of distal femur fractures treated operatively at moi teaching and referral hospital, Eldoret, Kenya***
8. Dr. Mukwa Samuel Nabiswa- (SM/PGORT/07/14)- ***Characteristics of motorcycle related femoral shaft fractures and direct cost to patients at Moi Teaching and Referral Hospital, Eldoret, Kenya.***
9. Dr. Ibrahim Rioba Nyamosi- (SM/PGORT/08/14)- ***Outcomes of open long bone fractures in patients treated with external fixators at Moi Teaching and Referral Hospital, Eldoret, Kenya.***
10. Dr. Robert Oluoch-(SOM/PGORT/05/14)-***Axillary nerve distribution in relation to arm length in a selected adult Kenyan population: a cadaveric study.***
11. Dr. Kevin Kariuki Mwaura-(SOM/PGORT/03/13)-***Patterns and short term outcomes of treatment of Thoracolumbar***

*fractures at Moi Teaching and Referral Hospital, Eldoret, Kenya.*

12. Dr. Emmanuel O. Oyier-(SOM/PGORT/06/13)-*Pattern of forearm fractures in adults and their treatment outcomes at Moi Teaching and Referral Hospital, Eldoret, Kenya.*
13. Dr. Goitseone Palontle Montsho-(SOM/PGORT/09/13)-*Functional outcome of treatment of elbow fractures in adult patients at Moi Teaching and Referral Hospital.*
14. Dr. Roda Abdilaahi Mohamoud-(SOM/PGORT/13/13)-*Patterns and treatment outcome of Intertrochanteric fractures in adult patients at Moi Teaching and Referral Hospital.*
15. Dr. Kiprotich Samuel Ng'eno (SM/PGR/03/12)-*Radiographic findings among children operated for acute abdomen at MTRH, Eldoret, Kenya.*
16. Dr. Thapelo Montshiwa Richard (SM/PGORT/03/11)-*Prevalence and causes of low back pain at MTRH.*
17. Dr. Gachini, M. James (SM/PGGS/01/12)-*Pattern, management and outcomes of intestinal obstruction at the MTRH.*
18. Dr. Silas O. Ayunga (SPH/PGH/02/10)-*The motorcycle rider training and licensing among commercial motorcyclists and their relationships with motorcycle accidents in Bungoma County, Kenya.*
19. Dr. Abuotha- Onyinkwa K. Mary (SM/PGR/02/10)-*The Correlation between Radiological features and Histopathological findings among patients with Intracranial Meningiomas in Eldoret, Kenya.*

I have participated in several Boards of Examiners for both the undergraduates and post- graduates. For the latter- as an internal examiner, supervisor and school representative among others.

**External Examiner:**

- **Maseno University-** Appointed in 2016 for three years, for both the undergraduate and postgraduate students; so far examined the pioneer undergraduate students in Orthopaedics surgery (2016), and subsequent groups of students.

	<p><b>Memberships:</b> Moi University- COBES committee, PSSP, CIEC, Departmental and SoMGC, School Board (SoM), School Management Board (SoMMB), College Academic Board and Senate among others.</p>
<p><b>5. Academic Qualifications:</b></p>	<ul style="list-style-type: none"> <li>• Master of Medicine (Orthopaedic Surgery), 2012, Moi University, Eldoret, Kenya. Thesis entitled “<i>Management of patients with post-traumatic exposed bones at Moi Teaching and Referral Hospital, Eldoret, Kenya</i>”.</li> <li>• Fellow of College of Surgeons (FCS), 2002, COSECSA.</li> <li>• Master of Medicine (Surgery); 1995, University of Nairobi. Thesis entitled “<i>Gangrene of the Scrotum in Kenyatta National Hospital – Nairobi; 1982 – 1992</i>”.</li> <li>• Bachelor of Medicine and Bachelor of Surgery (MBChB); 1985; University of Nairobi.</li> <li>• East African Advanced Certificate of Education (EAACE): 3 Principles, 1 Subsidiary, 1978, Saint Patrick’s High School, Iten.</li> <li>• East African Certificate of Education (EACE): Division I, 1976, Kibabii Secondary School, Bungoma.</li> <li>• Certificate of Primary Education (CPE): Pass, 1972, Bungoma D.E.B. Primary School, Bungoma.</li> </ul>
<p><b>6. Research Interests:</b></p>	<p><i>Broad ranging from personal, colleagues in groups, and the entire College of Health Sciences students groups. Through collaborations, tremendous achievements have been realized. I have also participated in review of Journal articles for publications.</i></p> <ul style="list-style-type: none"> <li>• AMPATH: Prior to institute establishment, actively participated through COBES activities, the collection of data from various Health Centers (COBES II stations) in early 2000s.</li> <li>• SIGN Nail project now established in many health institutions in EastAfrica. Funded by SIGN International.</li> <li>• Ongoing- Rationalizing antibiotic use at MTRH.</li> <li>• COBES (I- V) - a teaching method, concerned with research activities. Students funded.</li> <li>• Eldoret Orthopaedics Symposium: Annual events. Moi University Sweden collaboration.</li> <li>• Moi University/ MTRH- Indiana University collaboration: intended for postgraduate fellowship training and research.</li> </ul>

	<ul style="list-style-type: none"> <li>• Moi University- Kijabe Mission Hospital/ CURE: collaboration for purpose of postgraduate training.</li> </ul> <p><b>Review of Journal articles</b></p> <ul style="list-style-type: none"> <li>• Walailak Journal of Science and Technology</li> <li>• African Educational Research Journal</li> </ul>
<p><b>7. Publications:</b></p>	<ul style="list-style-type: none"> <li>• S. Wanjema, R. Oluoch, <b>B. R. Ayumba</b>, L. K. Lelei. Tibial diaphyseal fractures: Aetiology, morphology and treatment in adult patients at Moi Teaching and Referral Hospital, Eldoret, Kenya. <i>East African Orthopaedic Journal</i>; Vol. 14: March 2020. Page 6- 11.</li> <li>• J. Oeba, <b>B. R. Ayumba</b>, N. Ongaro, N. Kilonzo: Treatment outcomes of distal tibia fractures among adult patients at Moi Teaching and Referral Hospital, Eldoret, Kenya. <i>East African Orthopaedic Journal</i>; Vol. 13: September 2019. Page 50- 56.</li> <li>• Lusweti, V., Oluoch, R., <b>Ayumba, B. R.</b>, Njoroge, A., El- Badawi, M. G. Y: The course of the Radial Nerve in relation to the Humerus: A cadaveric study in a Kenyan adult population. <i>East African Orthopaedic Journal</i>; Vol. 13: March, 2019, Page 20- 25</li> <li>• Stephen O. Okello, Tenge R. Kuremu, <b>Ayumba B.R.</b>, Ruto E., Otieno V.O.: Etiology and Antimicrobial Susceptibility of Surgical Site Infections at Moi Teaching and Referral Hospital, Eldoret- Kenya. <i>International Annals of Medicine</i>. 2018; 2(4).<a href="https://doi.org/10.24087/IAM.2018.2.4.459">https://doi.org/10.24087/IAM.2018.2.4.459</a></li> <li>• Chirchir, Victoria J., Omune Verol Faith, Tanui Caroline J., Anne C., <b>Ayumba Barry Ramadhani</b>, Getanda Amos: Awareness of risk assessment and prevention of pressure ulcers amongst nurses working in surgical and orthopedic wards of Kenyan National Hospital. <i>Kenyan Journal of Nursing and Midwifery</i>. 2016. Vol. 1, No. 1. (Available at: <a href="http://www.kjnm.co.ke">www.kjnm.co.ke</a>).</li> <li>• <b>B. R. Ayumba</b>, L. K. Lelei, A. M. Emarah, D. J. Lagat: The management of post- traumatic exposed bones at MTRH, Eldoret. <i>East African Orthopaedic Journal</i>. 2015;7(1): 21- 26.</li> <li>• N. Kilonzo, H. R. Mwangi, L. K. Lelei, S. Nyabera, <b>B. R. Ayumba</b>: Treatment and outcome of ankle fractures at the Moi Teaching and Referral Hospital. <i>Annals of African Surgery</i>. 2014. Vol. 11, Number 1.</li> <li>• <b>B. R. Ayumba</b>: The management of post- traumatic exposed bones at MTRH, Eldoret. A Thesis submitted in partial fulfillment for award of the M.Med. (Orthopaedic Surgery) degree, of Moi University (2012).</li> <li>• <b>B. R. Ayumba</b>, R. K. Kuremu, L. K. Lelei, N. O. Ongaro, C. A. Nyakinda, E. L. Anjila: The management of bone and joint</li> </ul>

infections at Moi Teaching and Referral Hospital. East African Orthopaedic Journal. 2009. 3(2): 61- 68.

- L. K. Lelei, N. O. Ongaro, **B. R. Ayumba**, E. L. Anjila, C. A. Nyakinda, J. D. Lagat: Effectiveness and complications of SIGN intramedullary interlocking nailing in the management of femoral and tibial fractures at Moi Teaching and Referral Hospital, Eldoret-Kenya: A retrospective study. East African Orthopaedic Journal. 2009; 3(2): 47- 51.
- L. K. Lelei, N. O. Ongaro, **B. R. Ayumba**, J. D. Lagat: Use of SIGN intramedullary nailing in open tibia and femur fractures at Moi Teaching and Referral Hospital, Eldoret, Kenya. East African Orthopaedic Journal. 2009; 3(2): 42- 46.
- Andhoga, A. G. Macharia, R. Maikuma, Z. S. Wanyonyi, **B. R. Ayumba**, R. Kakai: Aerobic pathogenic bacteria in post-operative wounds at Moi Teaching and Referral Hospital (MTRH), Eldoret. East African Medical Journal, 2002; 79: 640 – 44.
- **B. R. Ayumba**, G. A. O. Magoha: Epidemiological aspects of Fournier’s Gangrene at Kenyatta National Hospital - Nairobi; East African Medical Journal, 199 8; 75: 586-9.
- **B. R. Ayumba**, G. A. O. Magoha: Management of Fournier’s Gangrene at Kenyatta National Hospital - Nairobi; East African Medical Journal – 1998; 75: 370-3.

***Conferences, Seminars, Workshops, Continuous Medical Educations:***

- SIGN Nail conferences and workshops, AO workshop, Training of trainers’ workshop, etc. locally.
- Kenya Orthopaedic Association Annual scientific conferences- regularly; presented papers at Nyeri and Naivasha; also Eldoret Orthopaedics annual symposium.
- Kenya Medical Association Annual scientific conferences-regularly; also Continuous Professional Development (CME) periodically arranged.
- 5<sup>th</sup> - 6<sup>th</sup> September, 2003: Attended and completed 10 credit hours of Neuro-Surgery CME Conference organized by Christian Association of Kenya (CHAK) in collaboration with PCEA Kikuyu Hospital. Awarded certificate.
- 4<sup>th</sup> - 8<sup>th</sup> August 2003: Successfully participated as a Faculty of Health Sciences facilitator in COBES workshop held at Action Aid, Kiboswa, Kisumu. Awarded certificate.
- Voluntary Counselling and Testing (V.C.T.): - Trained, completed and qualified as a full Counsellor in the course organized by the MoH, NASCOP in conjunction with Liverpool V.C.T. and CARE Teams: February - March 2003, at Kiboswa Action Aid (Kisumu). Certificate awarded (Year Code 03, Course Code 01, Participant Code 54). Prelude to AMPATH establishment.



	<ul style="list-style-type: none"> <li>• Emergency Medicine (Israel/MASHAV/Resuscitation Council of Kenya/MTRH collaboration) 2002.</li> <li>• Dedicated services to disabled children, and their families (Moi Teaching &amp; Referral Hospital (MTRH) Bethany CCC &amp; Anglican Church of Kenya (ACK) Clinic), 2002.</li> <li>• Operation Smile 2001 - Moi Teaching &amp; Referral Hospital, Eldoret.</li> <li>• Methodology of Skills Training 1997 (Moi &amp; Maastricht Universities).</li> <li>• Examination Coordinator, Department of Surgery and Anaesthesiology; currently Department of Orthopaedics and Rehabilitation, School of Medicine, Moi University.</li> <li>• KMA, ASEA, Medical Practitioners and Dentists Board (MPDB), SSK, KOA- several attendances at various venues.</li> <li>• Scientific Conference (Department of Human Anatomy) 1990 - University of Nairobi.</li> </ul>
<p><b>8. Classes you teach:</b></p>	<ul style="list-style-type: none"> <li>• College of Health Sciences: Community Based Education and Service (COBES) programmes I- V (Dentistry- BDS; Nursing- BSc. Nursing, and B Community Health Education; Public Health- BSc (EVH); Medicine- MBChB, BSc. Physical Therapy, BSc. Medical Psychology; BSc. Medical Laboratory Science).</li> <li>• School of Medicine: Orthopaedics- Undergraduate medical students mainly year V; dental students; Master of Medicine years I- IV.</li> </ul>
<p><b>9. Other relevant links:</b></p>	<ul style="list-style-type: none"> <li>• ResearchGate, Google scholar and Academia.edu.</li> </ul>
<p><b>10. Official Contact Details:</b></p>	<ul style="list-style-type: none"> <li>• Moi University, Orthopaedics &amp; Rehabilitation Dept. Box 4606-30100, Eldoret, Kenya.</li> <li>• Email: <a href="mailto:brayumba@yahoo.co.uk">brayumba@yahoo.co.uk</a>; <a href="mailto:brayumba.2014@gmail.com">brayumba.2014@gmail.com</a>; <a href="mailto:brayumba@mu.ac.ke">brayumba@mu.ac.ke</a></li> <li>• Telephone number(s): 0733784588; 0725426205</li> <li>• Social Media details: Facebook, LinkedIn, WhatsApp.</li> </ul>