

ANDREW WEKESA

BSc, MSc, PhD c Optometry: Pediatric and Binocular Vision Specialist/ Dispensing Optics and Technology

Biodata

Gender: Male

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P.O BOX 2304-50100, Kakamega

Nationality: Kenyan

Languages: English, Kiswahili, Luhya.

Education and qualification

2023 Ph.D. Optometry and Vision Science, University of Valencia- Spain

Thesis title; Impact of digital device use and screen time on the refractive error in school going-children in the mid-post digital era

2021 to date: Doctor of Optometry; University of Cape Coast Ghana.

2016- 2020: Masters of optometry and vision science; Masinde Muliro University of Science and Technology.

Thesis title; Effects of Convergence Insufficiency Vision Therapies on Accommodation among school-going Children- Kenya.

2011-2015: Bachelor of Science optometry and vision science; Masinde Muliro University of science and technology.

2005-2008: Kenya certificate of secondary school education; Friends School Kamusinga.

Work experience, training, and community participation.

2024 to date: Ass Lecturer Department of Optometry and Vision science

2020 to date: Consultant optometry Pediatric Optometrist in AVC

2021 June; Technology for Transformative Pedagogy by PEDAL

2017 April to date; Clinical instructor, Masinde Muliro university of science and technology, department of optometry and vision science.

Roles

Clinical teaching courses in undergraduate

- Clinical optometric procedure I:
- Applied optics I: Theory
- Visual perception and Neurophysiology
- Applied optics II: workshop practice.
- Ocular motility and binocular vision
- Binocular vision and vision therapy
- Pediatric Optometry
- All clinical attachment supervision.

Clinical teaching courses in Postgraduate

- Advanced Anatomy and Physiology of the Eye (core teaching)
- Neurophysiology and Psychophysics of Vision (core teaching)
- Advanced Ocular Motility and Binocular Vision (course leader)

2017 2nd - 5th May Grounding personal research culture, grant proposal writing, and postgraduate student supervision in Venda, MMUST university workshop.

2016 - 2017: Clinical intern; Masinde Muliro university academic vision center

2015- 2016: Voluntary optometrist, Webuye county referral hospital, and CME assistant coordinator.

2015: Realede international limited, certificate training in spss epi-info and research methodology

2015: London School of Hygiene & Tropical Medicine, a certificate in global blindness: planning and managing eye care services

SEMINARS ATTENDED AND PRESENTATIONS and PUBLICATIONS

1. Signes-Soler I, Ragot A, Nangena S, **Wekesa A**, Montalbán Llamusi R. Prevalence of visual impairment and estimation of refractive errors among school children in Kakamega, Kenya. *Int J Ophthalmol.* 2024 May 18;17(5):932-939. doi: 10.18240/ijo.2024.05.19. PMID: 38766327; PMCID: PMC11074202.
2. **Wekesa, A., & Wanzala, M. (2020).** *Effects of Home-Based Convergence Insufficiency Vision Therapy On Accommodation Among School Going Children. International Journal of Medical Science and Clinical Invention, 7(06), 4848-4853.*

<https://doi.org/10.18535/ijmsci/v7i06.05>

3. **Wekesa A, Ragot A, Yego W (2020)** *Effects of Bee Bread Extract from Meliponula ferruginea on Chemical Induced and Bacterial Infected Corneal Ulcers of Rabbit Eyes. J Clin Exp Ophthalmol. 11:834. DOI: 10.35248/2155-9570.20.11.834*
4. **Wekesa A. and Okenwa-Vincent EE. (2018);** *Prevalence of Uncorrected Refractive Errors and Vision Impairment in School-Going Children of Kakamega Town, Kenya – Presented at the First Pan African International Research Congress on Knowledge Generation and Dissemination (PAIRC 2018), Hosted by Masinde Muliro University of Science and Technology (MMUST) – tagged; “Harnessing Research Output for Sustainable Development”; Kisumu, Kenya, 18th to 22nd June, 2018.2017*
5. **Wekesa A (2016)** *Working together for comprehensive eye health in Kenya: The role of Optometrists as vision care providers. Kenya National Ophthalmic Workers Conference in Kisumu.*
6. **Wekesa A (2015)** *Impact of family affluence on school-going adolescents with uncorrected refractive error: A pilot study to validate the family affluence scale (FAS- KENYA) tool for Kenya in Masinde Muliro University.*
7. **Wekesa A (2015)** *Comprehensive coverage of refractive errors and its effect on quality of life among hospital staff working in Webuye county hospital awarded certificate*

Departmental roles, achievement and responsibilities

1. In-charge of community outreach

So far organized and conducted 12 community outreach among them, three attracted donation of equipment for the department worth ksh. 2 million

Have running MOU with United Kenya Rising who help us in mobilization of resource in the community for outreach.

2. In-charge of clinical placement attachment for the fourth year
3. Former student patron 4 year running
4. Former clinical coordinator for 4 year running
5. In-charge of workshop practice and optical technology

Books publication and design

1. Optical workshop manual, under final review for publication
2. Clinical refraction manual under final review by ministry of health, Division of ophthalmic services - Kenya

HOBBIES

- Watching medical documentaries , Playing chess, Surfing, Participating in community research

CAREER GOAL

- Bringing eye service close to people at low cost possible.
- To improve and protect optometry profession in Kenya through research and education.

REFEREE

Prof Maria Isabel Signes Soler

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MR. George Sowayi

Lecture, Masinde Muliro University of Science and Technology P.O. BOX 190-50100,

Kakamega, Kenya

DR. Maximila Wanzala

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