

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Edward Kuwera, M.D.

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DEMOGRAPHIC AND PERSONAL INFORMATION

Personal Data

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Education and Training

2002 - 2007 Bachelor of Science, Biomedical Engineering, Rutgers University School of Engineering, New Brunswick NJ, Cum Laude

2009 - 2013 Medical Doctor, Medicine, Ross University School of Medicine, Commonwealth of Dominica, Summa Cum Laude

2013 - 2014 Preliminary Intern, Internal Medicine, Jersey Shore University Medical Center, Neptune NJ

2014 - 2017 Residency, Ophthalmology, Jamaica Hospital Medical Center, Jamaica NY
Chief Resident 2016 - 2017

2017 – 2018 Fellowship, Pediatric Ophthalmology and Adult Strabismus, The Johns Hopkins University School of Medicine – Wilmer Eye Institute, Baltimore MD

Professional Experience

10/2018 - Present Assistant Professor, Johns Hopkins University School of Medicine – Wilmer Eye Institute, Baltimore MD

3/2021 – Present Associate Fellowship Program Director – Division of Pediatric Ophthalmology and Adult Strabismus – Wilmer Eye Institute, Baltimore MD

PUBLICATIONS

1. **Kuwera E**, Kruh JN, Explosive Nodular Scleritis, as a Primary Manifestation of Lyme Disease (Borrelia Burgdorferi), a Case Report. *Advances in Ophthalmology and Optometry*. 2017;2(1):385-389; [CR].
2. Jasani G, **Kuwera E**, Husain A. Isolated Medial Rectus Entrapment Due to Medial Wall Blowout Fracture: A Case Report. *Archives of Ophthalmology and Optometry*. 2020; 3(2): 10-12. [CR].
3. **Kuwera E**, Guyton DL, et al. *Measuring Prism in Progressive Addition Spectacle Lenses*. *Archives of Ophthalmology and Optometry*. 2021; 4(1): 08-14. [OR]
4. Dai X, **Kuwera E**. A Large Unilateral Temporal Pinguecula in a Young Pediatric Patient. *Archives of Ophthalmology and Optometry*. 2021; 4(1): 22-25. [CR]

Book Chapters

Pending publication **Kuwera** E, Lagstein O. The Treatment of Strabismic Amblyopia. *Strabismus and Amblyopia: Scientific Basis and Clinical Management*, McGraw Hill [BC]
(COVID delay)

Pending publication **Kuwera** E, Jabroun M. Complex Forms of Strabismus, *Clinical Pediatric Ophthalmology and Strabismus*. Jaypee Brothers International [BC]
(COVID delay)

Pending publication Kraus CL, Lagstein O, Jensen A, **Kuwera** E. Amblyopia, *Clinical Pediatric Ophthalmology and Strabismus*. Jaypee Brothers International [BC]
(COVID delay)

Press Mentions

- 2018 Advances in Strabismus Care for Adults and Children, Johns Hopkins Clinical Connection
<https://clinicalconnection.hopkinsmedicine.org/news/advances-in-strabismus-care-for-adults-and-children>
- 9/7/2020 Passing the Scalpel in Strabismus (with David L. Guyton, M.D.), The Wilmer Eye Institute, Wilmer Magazine Summer 2020
<https://www.hopkinsmedicine.org/news/articles/passing-the-scalpel-in-strabismus>
- 9/7/2020 Given Children a Chance for Sight, The Wilmer Eye Institute, Wilmer Magazine Summer 2020
<https://www.hopkinsmedicine.org/news/articles/children-chance-for-sight>

CLINICAL ACTIVITIES

Certification

- 7/2017 Licensed physician in the state of Maryland, #D0083785
- 6/2019 Board certified in ophthalmology

EDUCATIONAL ACTIVITIES

Educational Focus

Pediatric ophthalmology with a focus on complex strabismus, nystagmus, amblyopia, and retinoscopy. Certified educator of the Johns Hopkins Institute for Excellence in Education.

- 10/1/2018 – Present **Co-Division Education Champion in Optics**, Wilmer ophthalmology residents and fellows, Optics clinical instruction, surgical techniques, and basic science review.
- 10/1/2018 – Present **Program Evaluation Committee Member**, Wilmer Eye Institute; Planning, developing, implementing, and evaluating the educational activities of the residency program.

Teaching

Classroom Instruction

- 2009 – 2010 Medical School Tutor, Ross University School of Medicine, Commonwealth of Dominica. Gave lecture style sessions (both one-on-one and in a group setting) to Ross medical students in all subjects of the basic sciences. Each lecture would consist of two to three topics covered in a 2-3 hour session.
- 2013 – 2014 Presenter, Residents, Jersey Shore University Medical Center

- *How to Perform a Fundoscopy*: Lecture directed towards internal medicine attending physicians and residents. Discussed techniques not taught in medical school to make a fundoscopic exam easier and more enjoyable. Included basic information on clinical findings of glaucoma and various other conditions.
- *Fundoscopy Workshop*: Held 2 workshops for internal medicine residents and medical students on techniques for utilizing the direct ophthalmoscope.
- *Pancreatic Cancer*: Presented basic information on the clinical signs and symptoms, diagnosis, staging, and treatment of exocrine pancreatic cancer.
- *Ophthalmic Infections*: Presented basic information on common pediatric ophthalmic infections

- 2014 – 2017 Presenter, Residents, Jamaica Hospital Medical Center, Resident Grand Rounds Presentations
- *Retinoblastoma*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of retinoblastoma
 - *Radiation Induced Lacrimal Gland Injury*: Grand rounds presentation on the etiology, pathophysiology, and management of radiation induced xerophthalmia
 - *Ocular Lymphoma*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of ocular lymphoma
 - *Retinoscopy*: Grand rounds presentation on performing retinoscopy without lenses (based on Dr. Jack C. Copeland's techniques)
 - *Severe chemical eye injury*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the problem
 - *Angioid Streaks*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the underlying processes
 - *Trachoma*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the problem
 - *Anisocoria*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the problem
 - *Macular Dystrophy*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the disease
 - *Retinal Detachment*: Grand rounds presentation on the etiology, pathophysiology, diagnosis, and management of the problem
 - *Ocular Myasthenia*: Presented on the basic manifestations of the disease, diagnoses/treatment, and its association with generalized myasthenia.

Clinical Instruction

- 10/13/2017 Presenter, Clinicians involved in pediatric ophthalmology, 35th Annual Joseph H. Calhoun Pediatric Ophthalmology Forum, Will's Eye Institute;
Discussion of a case of post-partum esotropia in a young physician who was breastfeeding.
National Conference
- 11/3/2017 Presenter, Pediatric NICU residents, Retinopathy of prematurity review, Johns Hopkins Hospital.
JHMI
- 2018-Present Presenter, Wilmer ophthalmology residents and fellows, Strabismus OKAP Review, Wilmer Eye Institute.
JHMI
- 1/12/2018 Presenter, Pediatric NICU residents, Retinopathy of Prematurity review, Johns Hopkins Hospital.
JHMI
- 5/11/2018 Presenter, Ophthalmic technicians, Measuring Prism in Progressive Addition Lens Spectacles, Maryland Society of Eye Physicians and Surgeons Annual Meeting.
Regional

2018-Present Moderator, Wilmer ophthalmology faculty, fellows, residents, and medical students. Optics Grand Rands, Wilmer Eye Institute

Regional

2018-Present Moderator, Wilmer ophthalmology faculty, fellows, residents, and medical students. Pediatric Ophthalmology Grand Rounds, Wilmer Eye Institute

Regional

CME Instruction

2/21/2019 Presenter, Johns Hopkins NICU Nurse Practitioners, Retinopathy of Prematurity, Johns Hopkins Hospital.

Regional

10/26/2019 Presenter, Wilmer 23rd Annual Technician Course, The Myopia Epidemic, Johns Hopkins Hospital

Regional

11/4/2019 Presenter, 2019 Wilmer Bel Air Ophthalmological Education Series, Sensory Physiology and Monofixation Syndrome

Regional

12/6/2019 Presenter, The Wilmer Eye Institute's 32nd Annual Current Concepts in Ophthalmology, Measuring Prism in Progressive Add Spectacles

National

12/5/2020 Presenter, The Wilmer Eye Institutes 33rd Annual Current Concepts in Ophthalmology, Retinoscopy: Social Distancing Through Estimation Techniques

National

12/3/2021 Presenter, The Wilmer Eye Institutes 34th Annual Current Concepts in Ophthalmology, Retinoscopy for the Cataract Surgeon

National

Mentoring

8/2021 Mentor, Howard County Public School System, Currently mentoring a high school student interested in pediatric ophthalmology

RESEARCH ACTIVITIES

2005 – 2006 Research Investigator, Scapula Tracker, Rutgers University School of Engineering
Objective: To develop a fully functional computer model of the shoulder girdle, complete with muscles and ligaments. Used a scapula tracking device to obtain normal and pathological joint motion. By integrating these results with a computer model of the shoulder, we investigated patterns in abnormal joints to better understand shoulder pathology.

2014 – 2017 Research Investigator, Peripheral Diabetic Neuropathy and Its Relationship to the Severity and Progression of Primary Open Angle Glaucoma, Jamaica Hospital Medical Center.
Objective: To evaluate the differences in severity and progression of primary open angle glaucoma in patients with and without established peripheral diabetic neuropathy.

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts outside of JHMI:

2016 –2017 Primary Investigator; Jamaica Hospital Medical Center

The evaluation of cataract surgery outcomes during residency training.

ORGANIZATIONAL ACTIVITIES

Journal Peer Review Activities

8/2017 – Present Biomed Central Ophthalmology

4/2020 – Present JAMA Ophthalmology

5/2020 – Present Graefe’s Archive for Clinical and Experimental Ophthalmology

Professional Societies

2014 – Present American Academy of Ophthalmology, Fellow

2017 – Present American Association for Pediatric Ophthalmology and Strabismus, Member

2018 – Present Pediatric Eye Disease Investigator Group, Investigator

2019 – Present Association for Research and Vision in Ophthalmology, Member

2020 – Present Adult Strabismus Committee of the American Association for Pediatric Ophthalmology and Strabismus, Member

RECOGNITION

Awards, Honors

2005 – 2006 Dean’s List, Rutgers University School of Engineering

2009 – 2010 Dean’s List, Ross University School of Medicine

2010 – Present Distinguished Scholar, Ross University School of Medicine
For maintaining a GPA of 4.0 throughout the basic sciences

2013 – 2014 Intern Of The Year, Jersey Shore University Medical Center

2013 – 2014 Medical Student Certificate of Appreciation, Jersey Shore University Medical Center.
In recognition for excellence in teaching, support, professionalism, and contribution to the education of Rutgers-Robert Wood Johnson medical students

12/11/2019 The Johns Hopkins Hospital Service Star Award
In recognition of staff members who deliver outstanding patient-centered care, education for students and trainees, and innovative research.

6/14/2021 L. Harrell Pierce, M.D. Wilmer Resident Teaching Award
In recognition of the Faculty member who has demonstrated extraordinary effort in teaching the Resident Staff

OTHER PROFESSIONAL ACCOMPLISHMENTS

Posters

5/2020

ARVO - Cylindrical Lens Transforms Red and Green Laser Pointers into Streak
Generators Used for Lancaster Red-Green Testing at Minimal Cost.
Accepted, but not presented due to COVID-19.