

Global Ophthalmology

A Public Health Approach to Eye Care

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EMORY EYE CENTER

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Financial Disclosures
 I have no financial disclosures

Objectives

- What led me to Global Ophthalmology
- What is Global Ophthalmology?
- What is "Glocal"?
- How can we train 'global citizens'?

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Aligning my passion with opportunity



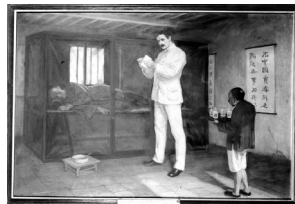
What is Global Ophthalmology?



Starting with the definitions



What is Global Health



Photos from: lshtm.ac.uk

What is Global Health



Photos from: npr.org

Global Health

	Global health	International health	Public health
Geographical reach	Focuses on issues that directly or indirectly affect health but that can transcend national boundaries	Focuses on health issues of countries other than one's own, especially those of low-income and middle-income	Focuses on issues that affect the health of the population of a particular community or country
Level of cooperation	Development and implementation of solutions often requires global cooperation	Development and implementation of solutions usually requires binational cooperation	Development and implementation of solutions does not usually require global cooperation
Individuals or populations	Embraces both prevention in populations and clinical care of individuals	Embraces both prevention in populations and clinical care of individuals	Mainly focused on prevention programmes for populations
Access to health	Health equity among nations and for all people is a major objective	Seeks to help people of other nations	Health equity within a nation or community is a major objective
Range of disciplines	Highly interdisciplinary and multidisciplinary within and beyond health sciences	Embraces a few disciplines but has not emphasised multidisciplinary	Encourages multidisciplinary approaches, particularly within health sciences and with social sciences

Table: Comparison of global, international, and public health

Towards a common definition of global health

Jeffrey P Kaplan, T Christopher Bond, Michael H Merson, K Srinath Reddy, Mario Henry Rodriguez, Nelson K Sewankambo, Judith N Wasserheit, for the Consortium of Universities for Global Health Executive Board*

Global Health

"Global health is an area for study, research, and practice that places a priority on improving health and achieving equity in health for all people worldwide."

Global Ophthalmology

"Global **ophthalmology** is an area for study, research, and practice that places a priority on improving **vision health** and achieving equity in health for all people worldwide."



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"Academic" Global Ophthalmology

Aims to strengthen health systems by providing education, research, and clinical care in collaboration with our partners



"Academic" Global Ophthalmology

Aims to strengthen **health systems** by providing education, research, and clinical care in **collaboration with our partners**





 An illustration showing a globe in the center, surrounded by a ring of small human figures. Several hands are shown interacting with the globe and the figures. To the right of the illustration is a list of bullet points and a list of values.

- How can we work together?
- What can we learn from each other?
- Learn from each other's successes and failures

Openness
Vulnerability
Communication
Collaboration

GO – Emory

Putting Global Ophthalmology into Practice

 Three small photographs are arranged horizontally. The first shows a large group of people standing together. The second shows a surgical team in an operating room. The third shows a person sitting at a desk with a computer monitor displaying an eye image.

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Retinoblastoma: Performed a needs assessment. Presented to National and International Stakeholders. Adopted by the MOH

SECURE: Highlighted the need for ongoing cataract outcome management. Now proceeding with SECURE II

Trachoma Sequelae: evaluation of lacrimal system scarring and tear film inflammatory markers

Partnering with an NGO to enhance surgical training for residents and fellows. From 10+ cases in residency -> 300+ cases in fellowship

ICO Review Course: A partnership between Academic centers, NGOs, Residency Programs. Resulted in Ethiopia being the TOP performer on ICO exam internationally

Bidirectional surgical training: Phaco training and SICS training amongst faculty, fellows and residents

Working with our partners to develop the questions and needs, research and answers and implement programs for change

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Global Ophthalmology

"Global ophthalmology is an area for study, research, and practice that places a priority on improving vision health and achieving **vision equity for all people worldwide.**"

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What is "GLocal" Ophthalmology?

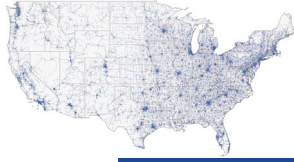
vision equity for all people worldwide

The application of the same principles of global ophthalmology to local communities (ie the United States)

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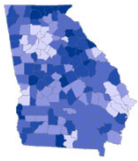
The Built Environment

- Takes into account
 - Location of optometry and ophthalmology offices
 - Availability of public transportation
 - Highways and roads
- Provides key information on access

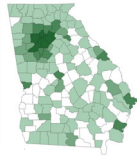


Georgia Eye Care and the Built Environment

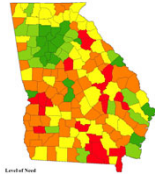
DENSITY: #Visually impaired per 1,000 population



Total Ophthalmology & Optometry Offices in Georgia

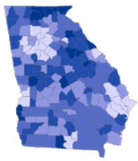


Need and Accessibility

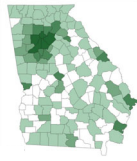


Georgia Eye Care and the Built Environment

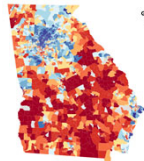
DENSITY: #Visually impaired per 1,000 population



Total Ophthalmology & Optometry Offices in Georgia



Georgia ADI



Georgia Vision 2020 & the Georgia Vision Network

1

Vision Screening Performed by any organization in the state

2

Patient is identified as needing a full eye exam
- Information is entered into the **GVN Database** and patient is paired to available care

3A

Patient is paired with a local eye care provider through GVN or other outreach program

3B

Local care is not available and a mobile clinic is arranged at a later date by GVN partners

Logos: The ICLIGHTHOUSE, Prevent Blindness Georgia, AMERICAN ACADEMY OF OPHTHALMOLOGY, EyeCare America

The Cost of Eye Care

By 2050, without effective interventions:

- Diabetic retinopathy ↑72%
- Cataracts ↑87%
- Glaucoma ↑100%
- Age-related macular degeneration ↑100%
- Vision impairment & blindness ↑150%

- Employee vs Employer ratio
- Cost of Marketplace Insurance
- Reality of gap between Medicaid eligibility and the marketplace cost
- Cost of serving uninsured and late stage disease
- The growing >65 population

COST OF VISION PROBLEMS | 157% to \$373 BILLION

Its Not Just Patient Cost

The Medicaid/Medicare Barrier

- Decreasing Reimbursement
- Increasing cost of care
- More complex patients
- 'Unreliable' Patients

How do we bridge this gap?

Medicare physician payment is **not keeping up with inflation. Why are physician services taking a backseat?**

Medicare updates compared to inflation (2001-2022)

AMA logo

Advocacy at ALL Levels

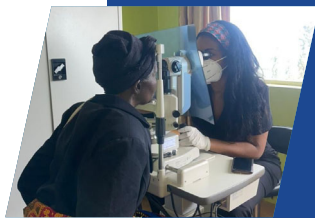


What is the answer?



Global Ophthalmology

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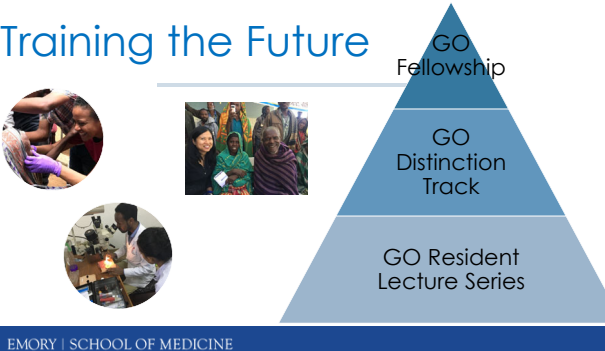




Collaborative Thinking

- Understanding the **real** barriers to access
- Understand the challenges of **patients AND providers**
- Recognize **everyone is going to lose a little bit**
- **Advocating** for our patients and our profession

Training the Future



GO Fellowship
GO Distinction Track
GO Resident Lecture Series

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Save the Date!

1st Annual Global Ophthalmology Fellowship (virtual) Symposium

July 31 - August 1, 2020
Sessions begin at 7 am PT, 8 am AEST, 10 am EST

Agenda Includes:

- Keynote address
- 10+ live sessions
- 10+ live Q&A sessions
- 10+ live case reports
- 10+ live case discussions
- 10+ live case presentations
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Standardized Global Ophthalmology Curriculum for Residency Programs

Rationale: Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.

Goal: Create a standardized global ophthalmology curriculum which can be easily implemented into a residency program, that aligns with the ACME competencies.

Alignment with ACME Competencies:

- Globalism:** Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.
- Systems:** Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.
- Partnership:** Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.
- Practice:** Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.
- Stewardship:** Global health education is a strong medicine in medical school residency curriculum. 50% of residency programs have some level of global health involvement. The number of Global Ophthalmology Fellowships is growing but national resident education needs.

Course Outcomes and Assessment:

Overview: resident course progression should be tracked by their Program Director and established global mentor (faculty, faculty, global patient).

Outcomes: require residents submit a final capstone or quality improvement project and have coursework assessments for program completion.

Assessment: have a defined mechanism to track resident growth/progress throughout coursework (i.e., a self-assessment survey and reflective report).

Resources:

- Suggested Coursework
- Example Curricula
- Feedback

REFERENCES











