# Vision 2020: A Global Public Health Initiative

Efforts and Barriers to Better Vision for All Oregon Academy of Ophthalmology Conference 2019 Miles Greenwald, MD

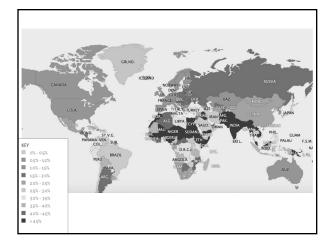
### Overview

#### The problem:

 Visual impairment and blindness around the world

#### The solution:

 Vision 2020 and efforts to eliminate avoidable blindness



# Visual impairment and blindness around the world

#### Problem is LARGE:

- \$36 million blind (better eye <20/400)
- 217 million with moderate or severe vision impairment (better eye 20/60- 20/400)

#### Problem is AVOIDABLE:

80% of visual impairment is avoidable

Source: Bourne et al 2017 and Flaxman et al 2017

# Vision impairment and blindness around the world

#### Problem is DEVASTATING:

- ♦ 90% can no longer work
- ♦ 50% report loss of social standing and decisionmaking authority
- ♦ 1/3 decrease in life expectancy
- 80% of all women noted a loss of authority within their family

Source: World Health Organization

### Major causes

#### Blindness

- Cataract 13 million
- ♦ Uncorrected refractive error 7 million
- Glaucoma 3 million

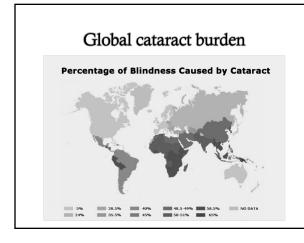
#### Vision impairment

- ♦ Uncorrected refractive error 116 million
- Cataract 53 million
- ♦ Age-related macular degeneration 8 million

#### Other major causes

Diabetic retinopathy, corneal opacity, trachoma

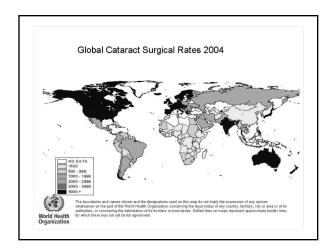
Source: Bourne et al 2017 and Flaxman et al 2017



# Current barriers: health care inequality and limited care

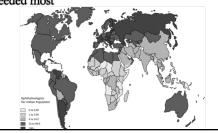
Access to care

- Geographic, economic, social barriers to eye care
- Strong correlation between cataract surgery rate and per capita GDP (Wang et al 2016)



# Current barriers: people gap

- Training Gap: Not enough eye health care workers
- Distribution gap: Not enough workers where needed most



### Vision 2020

- Launched in 1999 by World Health Organization (WHO) and International Agency for the Prevention of Blindness (IAPB)
- Goal: "A world in which nobody is needlessly visually impaired, where those with unavoidable vision loss can achieve their full potential."
- ♦ Eliminate avoidable blindness by 2020



### Vision 2020

- Partnering with national organizations for surveillance, training and providing care
- Identifying areas of needed growth and providing resources and leadership for addressing needs

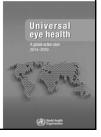


# Ongoing efforts

Goals

Indicators to watch

Update on progress



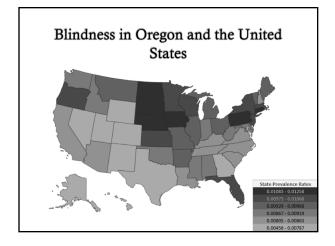
# Next steps: global engagement

Learning from those succeeding

- ♦ Aravind







### LOCAL ENGAGEMENT

- Casey Eye Van
- ♦ Respectacle
- Other local efforts





Casey joins Vision 2020 USA

OHSU Casey Eye Institute joins Vision 2020/USA in urging U.S. Surgeon General to issue Call to Action to improve eye health

"Vision problems can affect anyone at any age, impacting everything from learning to the ability to work and be independent." Mitchell V. Brinks, M.D., M.P.H., assistant professor of ophthalmology, OHSU School of Medicine and chai Vision 2020/USA.



"I'd argue curing blindness is about the most primary thing you can do to improve people's lives." ~Geoff Tabin, co-founder of the Himalayan Cataract Project

# **REFERENCES**

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