

OHDSI Eye Care & Vision Research Workgroup

April 19, 2022

Overview

- Current WG members
- Need for a WG in Eye Care & Vision Research
- Anticipated meeting schedule
- NIH Data Scholar Opportunity
- Upcoming NIH-FDA-ONC Joint Workshop on Promoting Adoption of Ocular Imaging Standards

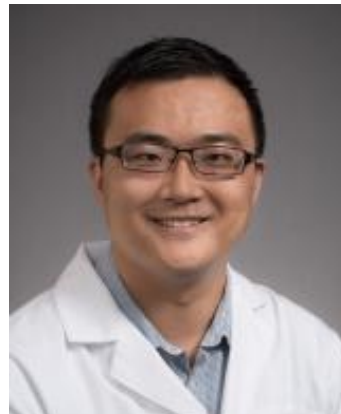
Current Workgroup Members



Sally Baxter, MD
(WG Co-Lead)



Kerry Goetz, MS
(WG Co-Lead)



Aaron Lee, MD



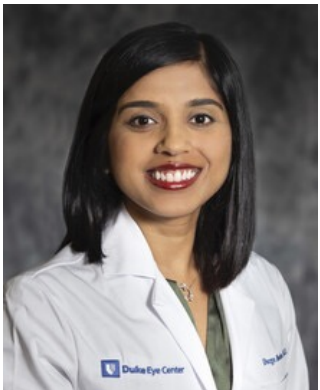
Thomas Hwang, MD



Michelle Hribar, PhD



Flora Lum, MD



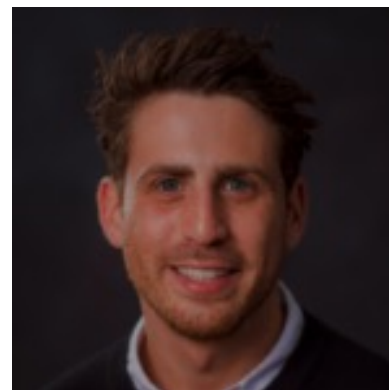
Durga Borkar, MD



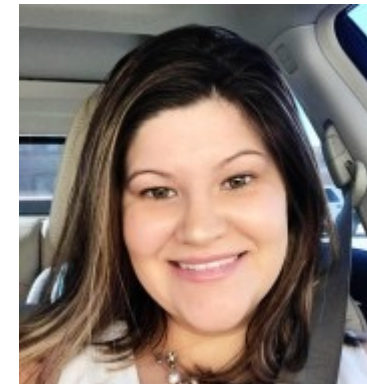
Michael Boland,
MD, PhD



April Maa, MD



Ash Kras, MD



Amber Reed, MPH



Eric Brown, MD

Need for a WG in Eye Care & Vision Research

- Data standards are needed for effective data sharing and powering advances in AI and Big Data
- Eye care / ocular data currently have many gaps in standards
- Advancing data standards in this domain would assist with the following:
 - Data sharing/interoperability
 - Data harmonization
 - Ability to integrate with other large-scale datasets mapped to OMOP

Anticipated meeting schedule

- Currently anticipate meetings to occur **monthly** on OHDSI Microsoft Teams
- Likely will be late afternoon/early evening time to accommodate clinician schedules and facilitate participation

Initial Planned WG Efforts

- Formulate OKRs
- Perform gap analysis for the “baseline” eye exam
- Engage with subspecialty societies for specific use cases
 - Example: Diabetic retinal disease
- Engage with OHDSI and other standards bodies to fill the identified gaps

NIH Data Scholar Opportunity



[Vision for Improving Interoperability for Eye Health Data](#)

The NEI Office of Data Science & Health Informatics (ODSHI) seeks a DATA Scholar to develop a strategy and lead community consensus building to improve ocular health care through data standardization. The scholar will:

- Build on community expertise of the Observational Health Data Sciences and Informatics (OHDSI) [OMOP CDM\(link is external\)](#) to advance standard representation of ocular concepts.
- Identify the need for new standards or modifications to existing ones for improved, computable data representation.
- Create a publicly available central mapping resource that would allow transformation of vision data in disparate databases to the OMOP CDM to allow cross-cutting research using these multiple data sources.

NEI-FDA-ONC Joint Workshop on Promoting Adoption of Ocular Imaging Standards

- **MAY 10th | 10am – 5pm EST | VIRTUAL**
- This virtual NEI, FDA, and ONC hosted workshop will focus on delineating the state of the science and improving interoperability among ocular imaging modalities and devices to improve biomedical research and patient care. It will consist of a day of discussion that will identify the gaps in knowledge, barriers to progress, and potential strategies for overcoming them in the context of addressing the goal of promoting the adoption of ocular imaging standards. The workshop is a follow-up to a recent NEI Request for Information on the topic and is open to the general public.