

# THE MARY Tyler Moore Vision Initiative

(Formerly: The Restoring Vision Moonshot)







# Diabetic Retinal Disease (DRD) Clinical Endpoints Workshop

Elizabeth Weiser Caswell Diabetes Institute (CDI) – University of Michigan Ann Arbor Marriott Ypsilanti at Eagle Crest October 25, 2022

# **AGENDA**

**O800** Breakfast | Served in Pre-function A (take food and drink into Salon IV to enjoy)

Note: dishes will be cleared by hotel staff when we take our break.

## 0825 Welcome | Salon IV

• Martin G. Myers, Jr., MD, PhD | Director, Elizabeth Weiser Caswell Diabetes Institute

## 0830 Why are we here? | Salon IV

Setting the stage- why we are here:

**S Robert Levine, MD** | Chairman, Mary Tyler Moore Vision Initiative Steering Committee

Patient perspective on DRD

Ryan Barunas | Board member, JDRF Northeast Ohio & Michigan Chapter

Industry Speaker - Unmet need re: Clinical Endpoints (and Therapeutics)

**Dolly Chang, MD**, **PhD** | Senior Medical Director, Early Clinical Development, Genentech

The importance of consortia (rethinking endpoints for T1D)

Sanjoy Dutta, PhD | Chief Scientific Officer, JDRF

Questions for the day

**Thomas Gardner, MD, MS** | Prof. of Ophthalmology Co-Director, JDRF Center of Excellence at the University of Michigan

## 0910 How Do We Prioritize Endpoints for Development and Validation? | Salon IV

 Challenges in Measuring Visual Function: Standardized Effect Sizes in pre-DR patients, reproducibility/capacity to track changes, and interoperability of structural and functional changes

> **Ted Maddess, PhD, FNAI,** Eccles, Institute for Neuroscience John Curtin School of Medical Research – Australia National University

Lessons from visual function testing in glaucoma

Jeffrey Liebmann, MD | Vice Chair Ophthalmology, Columbia University

Path to developing a PRO in DRD

**Steven Sherman**, **MPH** | Director, Health Economics and Outcomes Research, Regeneron Pharmaceuticals

Regulatory perspective on PRO development

Malvina Eydelman, MD | Director, Office of Health Technology 1, FDA

DRD Staging Update: Starting the discussion on priority endpoints

**Jennifer Sun, MD, MPH** | Chair, Diabetes Initiatives for the Diabetic Retinopathy Clinical Research (DRCR) Retina Network

#### 1010 Break and Move to Breakout Group Rooms

#### 1020 AM Breakouts: Prioritizing Clinically Useful Endpoints for Development and Validation

- Group 1: <u>Visual function and Retinal Physiology Endpoints</u> | Salon III
  Leader: Adam Glassman, MS | Executive Director at the Jaeb Center for Health Research
- Group 2: Patient-Reported Outcomes Measures | Salon I
  Leader: Stela Vujosevic, MD, PhD | University of Milan, Eye Clinic,
  IRCCS MultiMedica, Milan, Italy
- Group 3: Systemic, Biochemical, and Cellular Markers | Salon II

  Leader: Lloyd Paul Aiello, MD, PhD | Director, Beetham Eye Institute,
  Joslin Diabetes Center
- Group 4: Retinal Imaging Endpoints | Salon V
  Leader: Jennifer Sun, MD, MPH | Chief of the Center for Clinical Eye
  Research, Beetham Eye Institute, Joslin Diabetes Center

#### Questions for AM Breakout Discussion:

- 1. What are the criteria by which we judge a new endpoint's potential for use in DRD clinical care and research?
- 2. In each area, what are the priority clinically relevant potential prognostic and predictive endpoints?
  - i. What are the clinically relevant endpoints which have potential to become registerable endpoints?
- 3. How do these endpoints relate to stages of DRD where there is need and opportunity for intervention to preserve, restore, protect vision?
- 4. What is the patient burden of these endpoints and can/how do they take into consideration the patient voice and priorities?
- 1120 AM Breakout Reports to Workshop: Recommended targets for validation (5 minutes per group)
- **1155 Group Picture** (*Please meet in the hallway outside of Pre-function A for directions*)
- **1200** Lunch | Served in *Pre-function A* (take food and drink into *Salon IV* to enjoy)

  Note: dishes will be cleared by hotel staff when we take our next break

#### 1245 How Do We Validate Endpoints? | Salon IV

• Regulatory perspective on endpoint development

**Wiley Chambers, MD** | Director of the Division of Ophthalmology, Center for Drug Evaluation and Research, FDA

Kerstin Wickström, PhD | Expert, Lyfjastofun, the Icelandic medicines agency

 Lessons from visual function testing in clinical trials & natural history studies in AMD and DR

**Ulrich Luhmann, PhD** | Biomarker Experimental Medicine Leader Ophthalmology & Rare Disease, Roche

 Incorporating PROs and passive (patient) sensor data into clinical studies via loT devices, mobile connectivity, and cloud-based platforms

Martin Pellinat, MBA | President and Founder, Visiontree Software, Inc.

Clinical trial considerations in endpoint validation

**Adam Glassman, MS** | Executive Director at the Jaeb Center for Health Research

- 1345 PM Breakouts: Developing an action plan for endpoint validation and approval
  - Group 1: <u>Visual function and Retinal Physiology Endpoints</u> | Salon III
    Leader: Adam Glassman, MS | Executive Director at Jaeb Center for Health Research
  - Group 2: Patient-Reported Outcomes Measures | Salon I
    Leader: Stela Vujosevic, MD, PhD | University of Milan, Eye Clinic,
    IRCCS MultiMedica, Milan, Italy
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    Leader: Lloyd Paul Aiello, MD, PhD | Director, Beetham Eye Institute,

    Joslin Diabetes Center
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#### Questions for PM Breakout Discussion:

- 1. What are the initial studies proposed to validate the most important endpoints identified in the morning breakout sessions?
  - i. What is the general study design
  - ii. Who will conduct/sponsor such studies?
  - iii. What is the study duration?
- 2. What are concrete actions we can take to encourage collaboration?
- 3. Can we develop a consortium of stakeholders in this area and how would it function?
  - i. Can we start, as a group, with cross sectional studies in a "precompetitive space" by numerous stakeholders to develop insights that may be applicable to later longitudinal assessment by individual entities (in a possibly competitive space)?
  - ii. Can we identify a "basket" of clinically relevant and potentially registerable endpoints that could be recommended for inclusion in ongoing DRD trials or new trials for further assessment, validation, and comparative analysis?
- 1445 Break | Food will be served in *Pre-function A*(Please feel free to take snacks and drinks with you to the airport as well.)
- 1455 Action Plans coming out of breakout groups, including next steps on consortium development and first trial design (5 minutes per group)
- 1535 Synthesis and Summation | Salon IV
  - Lloyd Paul Aiello, MD, PhD | Director, Beetham Eye Institute, Joslin Diabetes Center
- 1550 Next Steps (and Expression of Gratitude) | Salon IV
  - S. Robert Levine, MD | Chairman, MTM Vision Initiative Steering Committee
- 1600 Adjourn Bus departs to DTW airport from Conference Center Patio Exit