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For Collaborative ResearchSM
Berkeley's Hub for Regulatory Science

Overview: Endpoints Working Group

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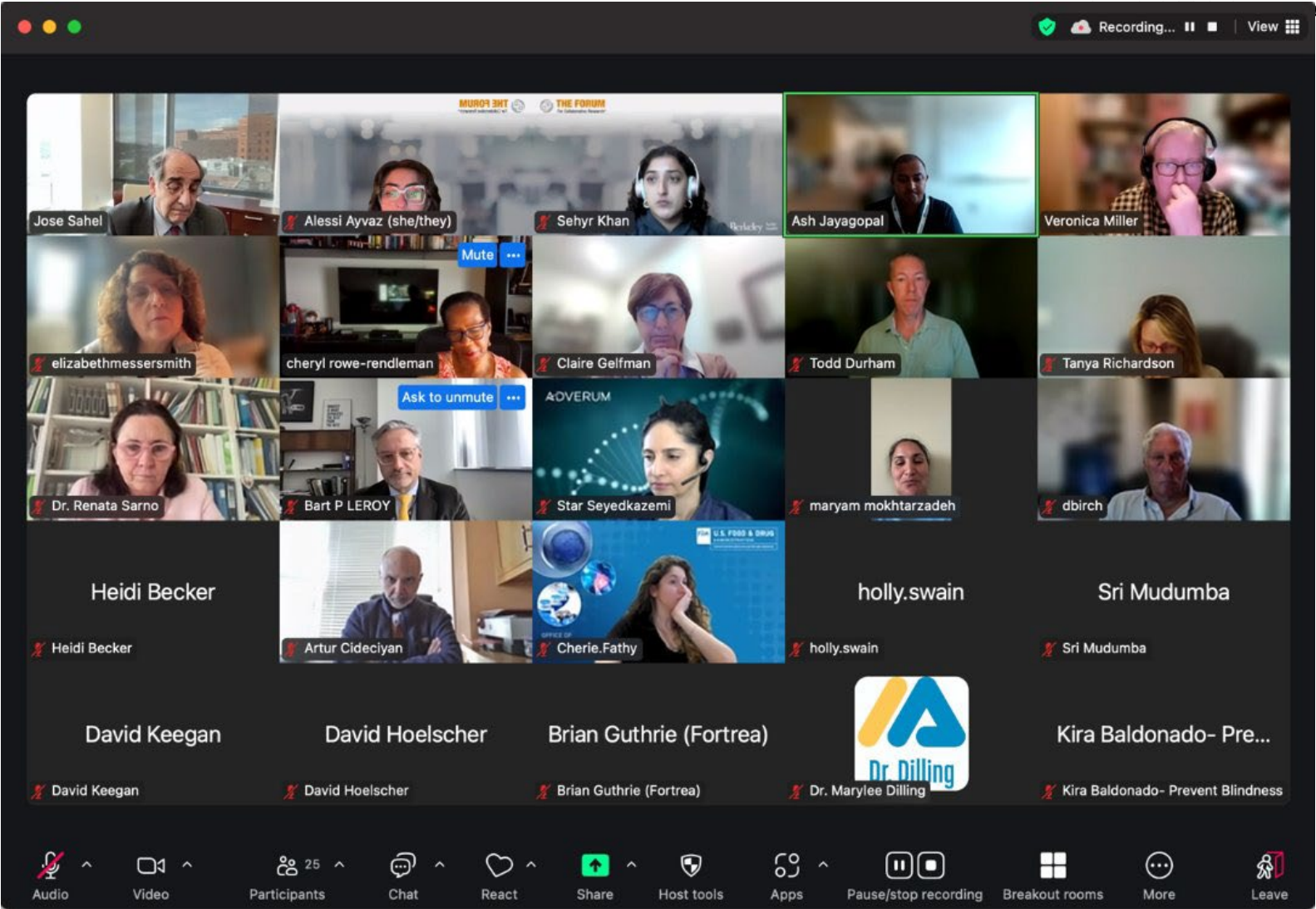
Review of Endpoints Working Group Goals and Objectives

Endpoints Working Group, April 2025



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Endpoints (IRDs) Working Group

- Led by Dr. Bart Leroy (Ghent University) and Dr. Ash Jayagopal (Opus Genetics)

- Members Include:

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|--|--|--|
| ■ Alessi Ayvaz (Forum for Collaborative Research) | ■ Daniel Chung* (SparingVision) | ■ Maryam Mokhtarzadeh (Regenxbio) |
| ■ Allison Ayala (Jaeb Center for Health Research) | ■ David Hoelscher (Fortrea) | ■ Nicholas Langevin (Boehringer Ingelheim) |
| ■ Artur Cideciyan (University of Pennsylvania) | ■ David Keegan (Mater University/ERN-EYE) | ■ Renata Sarno* (BCM Families Foundation) |
| ■ Ash Jayagopal* (Opus Genetics) | ■ Jim Wang* (Regeneron) | ■ Sehyr Khan (Forum for Collaborative Research) |
| ■ Bart Leroy* (Ghent University) | ■ John Cavitt (Blue Gen Therapeutics Foundation) | ■ Sri Mudumba (PYC Therapeutics) |
| ■ Cherie Fathy (U.S. Food and Drug Administration, CBER) | ■ Jose-Alain Sahel (UPMC Vision Institute) | ■ Tanya Richardson* (Fortrea) |
| ■ Cheryl Rowe-Rendleman* (Omar Consulting Group) | ■ Kali Stasi (Diorasis Therapeutics) | ■ Todd Durham* (Foundation Fighting Blindness) |
| ■ Claire Gelfman* (Forum for Collaborative Research) | ■ Kira Baldonado (Prevent Blindness) | ■ Veronica Miller (Forum for Collaborative Research) |
| | ■ Marylee Dilling (BCM Families Foundation) | |

Working Group Aims

- Review the regulatory landscape for IRD endpoints across agencies.
- Explore potential new endpoints dependent on the expected treatment outcome of a therapeutic and its mechanism of action.
 - Thus, endpoint selection for IRDs versus AMD must be disease-specific, outcome-specific, and treatment-specific.
- Explore pathways for validation of new endpoints including clinical and biomarkers

Full-field Stimulus Testing (FST)

- FST: Assessment of whole visual field sensitivity by determining the lowest amount of perceivable light
- Emerging as a quantifiable endpoint to monitor both disease progression, as well as response to potential therapies:
 - LCA1 (Atsena)
 - LCA2 (Luxturna/Spark)
 - LCA5 (Opus)
 - LCA10 (Editas)
 - RUSH2A natural history study
- Additionally, it is predictive of results from the multi-luminescence mobility test (MLMT)

Request from ODF2

- Define the patient population for whom FST is a suitable endpoint
- Collate the wealth of existing clinical data to propose FST testing as an acceptable endpoint in clinical trials for IRDs

Where we stand today

- Standardization and Consensus on FST
- Role in Disease Staging and Clinical Trials
- Correlations with Other Clinical Outcomes
- FST as a Secondary or Supplementary Outcome
- Validation and Regulatory Considerations
- Collaboration and Expert Involvement

Draft Outline

Introduction

- Rationale
- Consensus statement

Overview of FST

- FST Measures:
- FST does not measures:
- FST measurement in LCAs:
- FST limitations in LCAs:

FST as a Primary Outcome

- FST Administration in Leber Congenital Amaurosis
 - Characterization of LCAs
 - FST Administration in pediatric populations in LCA (age cutoff)
 - Ages 6-9

- FST White in LCAs
- Two-color DA FST in LCAs
 - B-R change
 - Thresholds of change

- FST Administration in Other Low Vision IRDs

FST anchored with other measurements

- MLMT
 - Rationale for anchoring with MLMT
 - Exploration of data analysis
- NEI-VFQ
 - Rationale for anchoring with MLMT
 - Exploration of data

FST as a Secondary Outcome

- In Retinitis Pigmentosa...
- In Other IRDs...
- **Future Directions**
 - Establishing an MCID in prep.
 - Looking at other endpoints



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Thank You

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Health