Virtual Journal club

How V3 might be applied to wearable dosimeters and light loggers

June 13th, 2023 11 a.m. ET
But first, housekeeping

- Please note today’s session is being recorded
- Slides and recording will be available after today’s session
- Please enter questions into the chat box throughout the session
**V3 introduction**

- **VERIFICATION**
  
  Evaluates and demonstrates the performance of a sensor technology within a **BioMeT**, and the sample-level data it generates, against a pre-specified set of criteria.

- **ANALYTICAL VALIDATION**
  
  Evaluates the performance of the algorithm, and the ability of this component of the **BioMeT** to measure, detect, or predict physiological or behavioral metrics.

- **CLINICAL VALIDATION**
  
  Evaluates whether a **BioMeT** acceptably identifies, measures, or predicts a *meaningful* clinical, biological, physical, functional state, or experience, in the stated context of use (which includes a specified population).

---

**BioMeT** - Biometric Monitoring Technology
Light logger and dosimetry pipeline

- Light sources and illuminated scenes
- Ocular light exposure
- (Near-)corneal irradiance sensors
- Personalised light exposure
- Summary metrics
- Retinal irradiance (unobservable)
- Health outcomes
- Inference

Defined in time, space & spectrum

Directly or indirectly

Time
Verification
Analytical validation
Clinical validation
Current and future challenges

• To what extent is corneal light exposure a physiologically relevant quantity?

• What is the usability and acceptability of digital dosimeters?

• Which metrics should be used?

• How comparable are data from different groups and populations?

• How to handle non-wear periods and quality control?
Striding Past the 6MWT: Complementing Physical Activity Assessment with a Consensus Set of Digital Clinical Measures

Tuesday, June 27 at 11am-12pm ET
Virtual Journal club

Evidence DEFINED Framework – A Rigorous, Rapid Approach to Assess the Clinical Value of Digital Health Interventions | Public Launch Event

Thursday, July 20th, 2023 | 12pm ET

Jenna Carl
Chief Medical Officer
Big Health

Paul Wicks
Consultant
Wicks Digital Health

Tim Campellone
Vice President, Translational Science
Woebot Health

Jordan Silberman
Director of Clinical Analytics & Research
Elevance Health

Smit Patel
Associate Program Director
Digital Medicine Society (DiMe)
Moderator
THANK YOU