

FDA CDRH Anesthesiology and Respiratory Therapy Devices Panel of the Medical Devices Advisory Committee

February 2, 2024
Virtual

The Committee will discuss ongoing concerns that pulse oximeters may be less accurate in individuals with darker skin pigmentation. The Committee will discuss an approach to improve the quality of premarket studies and associated methods used to evaluate the performance of pulse oximeters submitted for premarket review, taking into consideration a patient's skin pigmentation, and patient-reported race and ethnicity. The Committee will discuss the type and amount of data that should be provided by manufacturers to FDA to evaluate the performance of pulse oximeters submitted for premarket review, including prescription and over-the-counter indications, and labeling considerations.

9:00 a.m. Call to Order Hugh A. Cassiere, M.D.

Panel Introductions Panel Chair

Candace Nalls

Conflict of Interest Statement Designated Federal Officer

9:15 a.m. FDA Opening Remarks Jeff Shuren, M.D., J.D.

Center Director, Center for Devices and Radiological Health (CDRH) and Christine Lee, Pharm.D., Ph.D. Acting Associate Commissioner for Minority Health (OMHHE)

9:30 a.m. FDA Presentations:

Pulse Oximeters: Technology, Accuracy

Limitations, and Regulations

Allison O'Neill, Ph.D., OHT1, CDRH

James Lee, Ph.D., OHT1, CDRH

A Systematic Literature Review of the Real-World

Performance of Pulse Oximeters

9:50 a.m. FDA Presentations: Considerations for Study Design and Acceptance Criteria for Non-Disparate Performance Proposed Approach to Premarket Clinical Study Kumudhini Hendrix, M.D., OHT1, **CDRH** Assessment of Skin Pigmentation Josh Pfefer, Ph.D., OSEL, CDRH **Statistical Considerations** Gene Pennello, Ph.D., OSEL, CDRH 10:40 a.m. Break 10:50 a.m. Invited Speakers: MST Scale and Pigmentation Ellis Monk, Ph.D., Harvard University Real-World Evidence and Pulse Oximetry Philip Bickler, M.D., Ph.D., UCSF-CERSI Carolyn Hendrickson, M.D., M.P.H., UCSF-CERSI Christopher Almond, M.D., Stanford-CERSI Patient Perspectives: Adult Perspective Edward McClure, Right2Breath Ryan Jolly, International Children's Pediatric Perspective Advisory Network **Industry Perspectives** Tara Federici, Advanced Medical Technology Association Steven J. Barker, Ph.D., M.D., Masimo, Medical Device Manufacturers Association 12:00 p.m. Panel Deliberations Hugh A. Cassiere, M.D. Panel Chair 1:00 p.m. Lunch 1:30 p.m. *Open Public Hearing 3:30 p.m. Invited Speakers: Collaborative Community Michael Lipnick, M.D., Open Oximetry Project

Professional Societies' Perspectives on Pulse

Oximetry

American Academy of Sleep Medicine, Indira Gurubhagavatula,

M.D., M.P.H.

		American College of Chest Physicians, Aaron Baugh, M.D. American College of Surgeons, Ann G. Rizzo, M.D., F.A.C.S. American Medical Association, Jesse M. Ehrenfeld, M.D., M.P.H. American Thoracic Society, Nirav Bhakta, MD Anesthesia Patient Safety Foundation, Meghan Lane-Fall, M.D., M.S.H.P., F.C.C.M. Society of Technology in Anesthesia, Garrett W. Burnett, M.D. American Association of Critical Care Nurses, Theresa M. Davis, PhD, RN, NE-BC, CHTP, FAAN American Academy of Pediatrics,
		Joseph Wright, M.D., F.A.A.P.
4:10 p.m.	Break	
4:15 p.m.	FDA Questions to the Panel	Hugh A. Cassiere, M.D. Panel Chair
6:20 p.m.	Panel Summation	Hugh A. Cassiere, M.D. Panel Chair
6:30 p.m.	Adjourn	Hugh A. Cassiere, M.D. Panel Chair

^{*} Open Public Hearing – Interested persons may present data, information, or views, orally or in writing, on the issue pending before the panel. Scheduled speakers who have requested time to address the panel will speak at this time. After they have spoken, the Chair may ask them to remain if the panel wishes to question them. Then the Chair will recognize unscheduled speakers as time allows. Only the panel may question speakers during the open public hearing.