# Session 2

Real World Opportunities and Challenges in Using GLP1 Receptor Agonists for CNS Disorders

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# Session Speakers

**Karen Glanz, PhD,** George A. Weiss University Professor, School of Nursing, University of Pennsylvania

A Lived Experience Perspective on Accessibility and Equity

**Jiang Bian, PhD,** Chief Data Scientist of UF Health, Professor of Biomedical Informatics, UF College of Medicine

RWE for Repurposing GLP-1 Agonists in CNS Disorders

**Robert Kosko, PharmD, MPH,** Commissioned officer in the United States Public Health Service, Senior Program Management Officer for the Drug Shortage Staff, FDA

GLP-1 Agonists Supply and Shortage

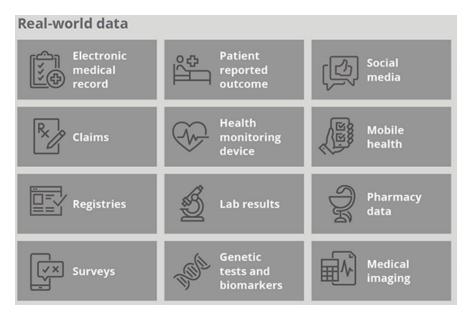
**Fatima Stanford, MD, MPH,** Associate Professor of Medicine and Pediatrics, Massachusetts General Hospital and Harvard Medical School

Equity and GLP1 Agonist Access

### **FDA definitions on RWD and RWE**

### Real world data (RWD)

Data relating to patient health status and/or delivery of health care routinely collected from a variety of sources





# Real world evidence (RWE)

Clinical evidence about the usage and potential benefits or risks of a medical product derived from analysis of RWD

#### Evidence supporting:

- Effectiveness & Safety
- Heterogeneity in treatment effect

E.g., Ibrance (palbociclib) – FDA expanded the indication of Ibrance for male breast cancer using RWE from EHRs



# **Experiment Settings: 'Ideal World'**



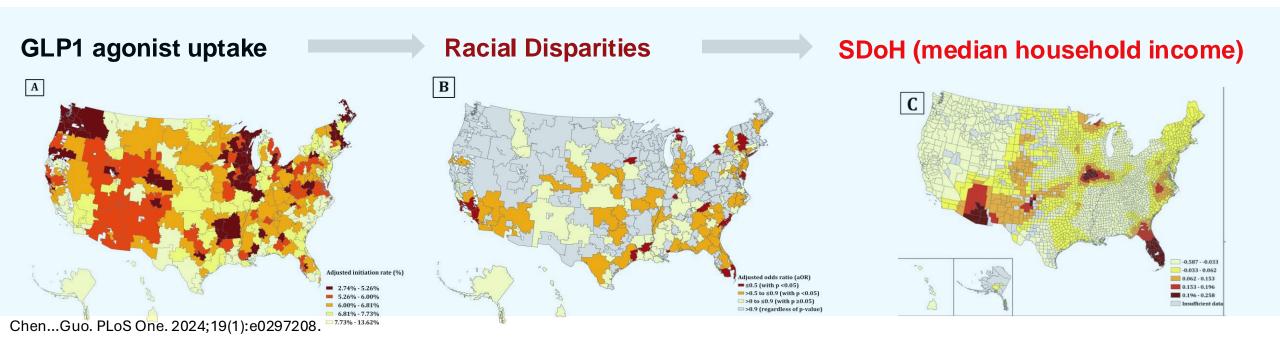
**Real World** 



# GLP1 agonists in CNS disorders

- Long term effect of GLP1 agonists on CNS disorders?
- Safety profile of GLP1 agonists in special populations (pregnancy, children, aging populations)?
- Individualized treatment effect and precision dosing of GLP1 agonists (e.g., clinically high/low benefit users, balance of intended vs. off –target effect )?
- **Head-to-head** comparisons of the benefit-risk profile among individual drugs (e.g., semaglutide vs. tirzepatide)?

# Real World GLP1 Agonist Use: Accessibility & Disparities



- Will GLP-1 agonists **exacerbate existing health disparities**?
- Causes underlying GLP1 agonist shortage and how such shortage impacts health outcomes and disparities?
- A multistakeholder prescription for improving equity in GLP1 agonist access: Pharmaceutical Manufacturers, Health Care Payers, Prescribers, Health Care Researchers...

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