



## Improving Population Health Outcomes through Enhanced Clinical Data Capture and Standardization

Donna Sattler - Independent  
Brian Harris - AstraZeneca

# Meet the Speakers



## Donna Sattler

**Title:** Clinical Data Strategy Leader

**Organization:** Open for Hire!

Visionary leader with 20+ years driving clinical data standards, programming, and strategic innovation. Expert in enhancing efficiency and quality between cross functional teams, with a strong commitment to advancing health equity by increasing inclusion of underrepresented populations in clinical trials through transformative data strategies and best practices.

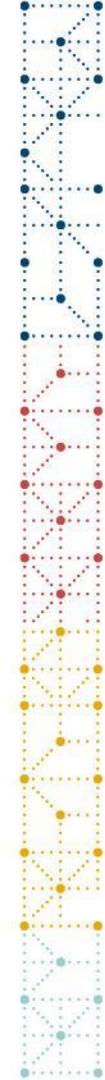


## Brian Harris

**Title:** Standards Developer Senior Director

**Organization:** AstraZeneca

Over 25 years of industry experience working as a biostatistician and, most recently, as a standards developer for data collection, cleaning, analysis, and reporting. Over 12 years of volunteer experience on the CDISC ADaM team supporting ADaM conformance, questionnaire supplements, and recent updates to the implementation guide. Served as ADaM team lead in 2022 & 2023.



# Disclaimer and Disclosures

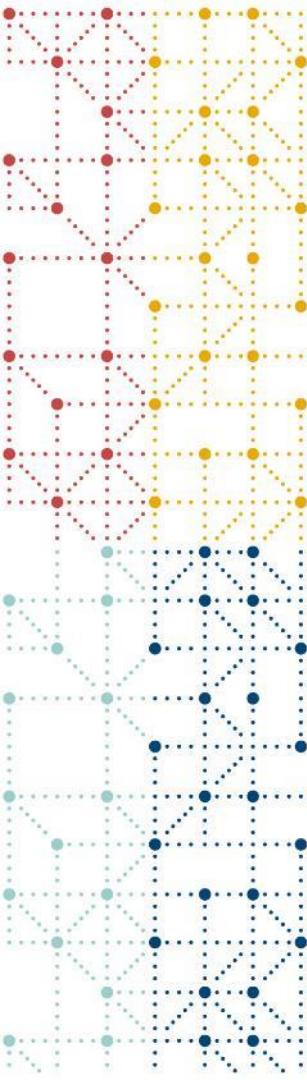
- *The views and opinions expressed in this presentation are those of the author(s) and do not necessarily reflect the official policy or position of CDISC.*
- *The information presented in this session is for educational and informational purposes only. The presenter and affiliated organizations are not liable for any actions taken based on the information provided in this presentation.*

# Health Equity

=

Everyone has a fair  
opportunity to live a  
long and healthy life.





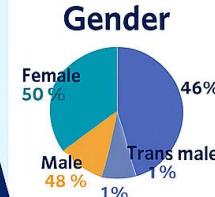
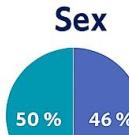
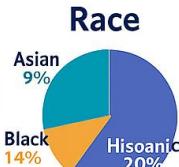
# Initial Thoughts



[Donna's slido | Present mode](#)

# Social Determinants of Health

## REPRESENTATION OF A WHOLE-PERSON IN CLINICAL RESEARCH



### Ethnicity



### Heritage



### Disability

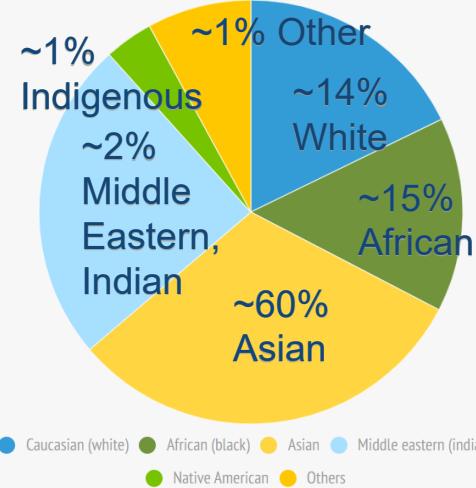


[Real-World Case: Systemic Exclusion of Transgender Women in Clinical Trials](#)

# The Equity Gap examples

Study / Source	Key Findings	
<a href="#">FDA Global Participation Analysis (2020)</a>	Of 297,000 global trial participants: 76% were white, 11% Asian, 7% Black. Yet 60% of the global population is Asian and 16% African.	
<a href="#">Inovalon Real-World Outcomes Study</a>	Black patients with advanced Parkinson's disease were 3x less likely to receive device-aided therapy than white patients.	
<a href="#">Breast Cancer Mortality Study</a>	Black women have a 41% higher breast cancer mortality rate than white women and the lowest 5-year survival rate.	
<a href="#">Wellcome Trust Survey (UK)</a>	White British individuals were 64% more likely to participate in health research than ethnic minorities.	Skewed data can misinform public health policies and clinical guidelines, excluding vulnerable populations.
<a href="#">COVID-19 Trials</a>	Ethnic minorities were underrepresented in COVID-19 vaccine and treatment trials despite bearing a higher disease burden.	Undermines trust and limits understanding of vaccine efficacy and safety across diverse groups.

## RACE OF THE WORLD POPULATION

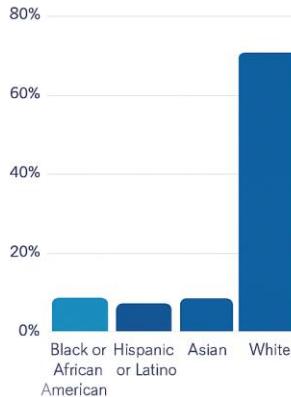


# Disproportion Clinical Trial Myths

X Myth	☐ Implications
Collecting race data is enough to ensure equity.	Oversimplifies race, gender, income, and ethnicity. Can lead to ineffective interventions.
Diverse recruitment happens naturally if trials are open to all.	Ignores structural barriers like access, availability, and outreach.
Standardizing data means treating all populations the same.	Risks erasing important data that reflects real-world diversity.
Minority participation is low because of lack of interest.	Blames interest in clinical trials on issues like language and culture.
Equity is achieved once diversity metrics are met.	Focuses on diversity metrics instead of true equity. True equity means access to information and decision-making.

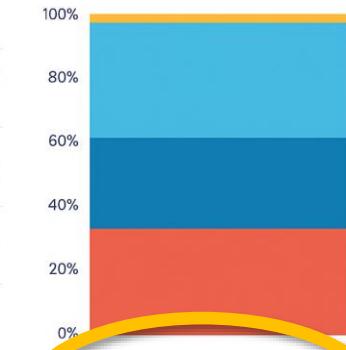
## Rejecting the Interest Myth'

Racial Participation in Clinical Trials



Barriers to Participation

Among diverse underrepresenting people are color, rural communities, and those with lower levels of education<sup>11</sup>.





# Example of More Inclusive Research

## **Terry Beirn Community Programs for Clinical Research on AIDS (CPCRA)**

Established by the NIH to form a community-based network to involve a demographically, geographically, and socio-economically diverse population in HIV clinical research.

# Race & Ethnicity: Evolving Guidance

Before 24 March 2024:



## OMB standards for race & ethnicity (Policy Directive 15)

### 2 Categories for Ethnicity\* 5 Minimum Categories for Race\*

- Hispanic or Latino
  - American Indian or Alaska Native
- Not Hispanic or Latino
  - Asian
  - Black or African American
  - Native Hawaiian or Other Pacific Islander
  - White

As of 24 March 2024:



## OMB standards for race & ethnicity (Policy Directive 15)

### 6 Minimum Categories for Race\*

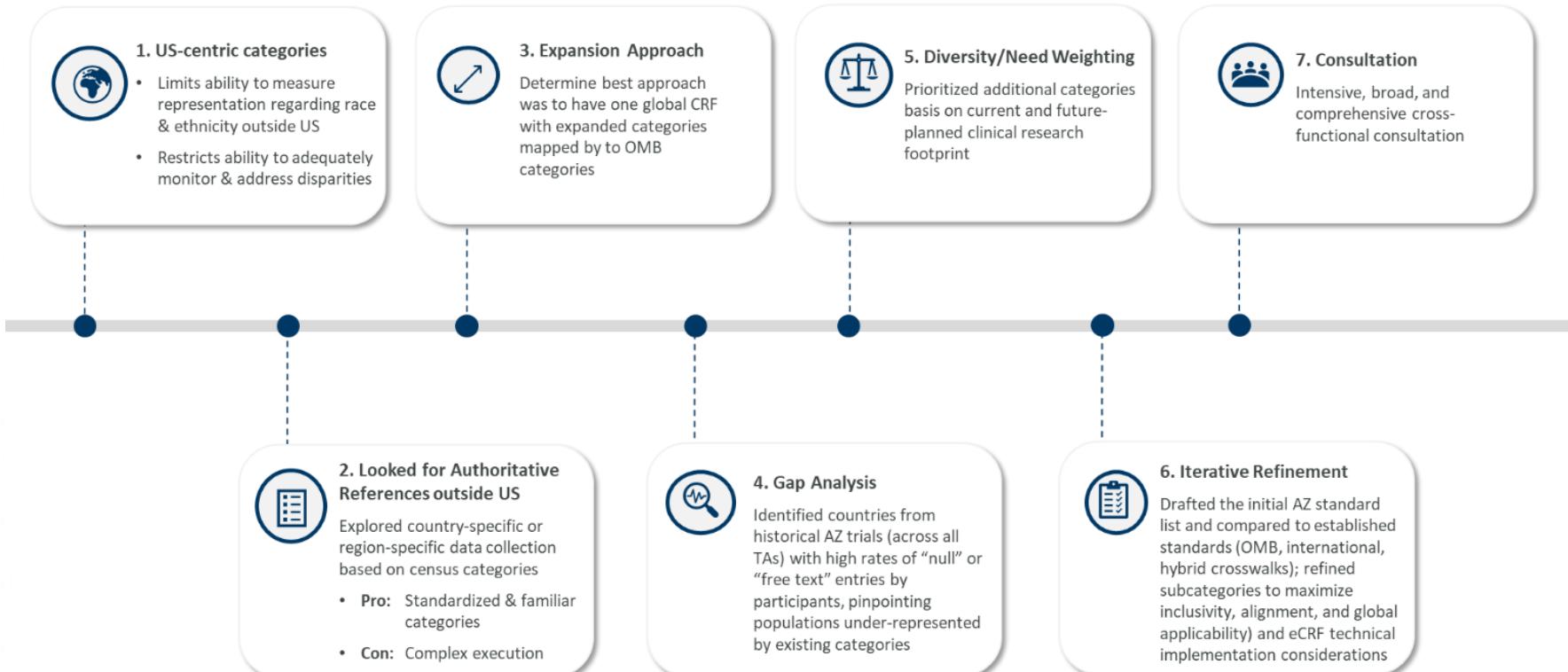
- Asian
- Black or African American
- Hispanic or Latino
- Middle Eastern or North African
- Native Hawaiian or Pacific Islander
- White

*Also to be captured:* American Indian or Alaska Native

For more information, see [FDA guidance](#): [The Collection of Race & Ethnicity in Clinical Trials \(2016\)](#), and [Collection of Race and Ethnicity Data \(draft, Jan 2024\)](#) which defines minimum standards for collecting and presenting data on race & ethnicity.

\*In some situations, more detailed race and ethnicity information may be required, but these should map back to the 2 designations for ethnicity and 5 designations for race (see p.11 of [2016 FDA guidance](#))  
In 2024, OMB standards were updated, and the FDA will be updating their guidance in due course, however until that point, these categories should be followed.

# AZ's Journey of Rethinking Race & Ethnicity Collection

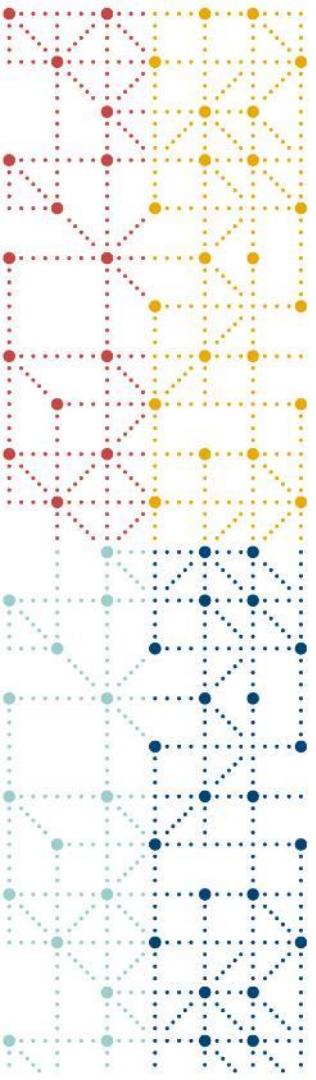


# Health Equity is a Core Ethical Principle

The most recent version of the guideline on Good Clinical Practice, ICH E6(R3), includes requirements that study participants are not unnecessarily excluded and that the participant selection process should be representative of the population groups the investigational product is intended to benefit



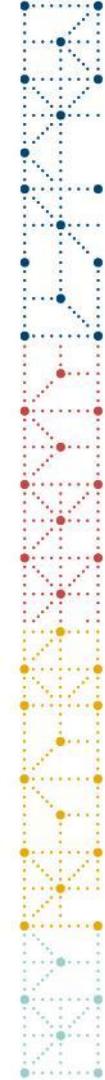
- **Focus on quality:** There should be "quality by design" throughout the clinical trial process, including early-stage planning that accounts for diversity issues.
- **Flexibility in trial design:** There should be more flexibility in trial design, technology, and data sources, enabling innovative approaches to reduce burdens on underrepresented populations



# Key Takeaway



[Donna's slido | Present mode](#)



# Key Takeaway

**Diversity in clinical trials ensures that study results are applicable to all populations affected by the condition.**

- Including diverse populations in clinical trials helps ensure that the results are generalizable and relevant to all groups impacted by the condition. This enhances the scientific validity and equity of medical research, reducing disparities in treatment outcomes.
- Equity is achievable, but only if we design for it intentionally and standardize meaningfully.

Let's commit to designing inclusively, standardizing meaningfully, and collaborating boldly. Together, we can transform research.



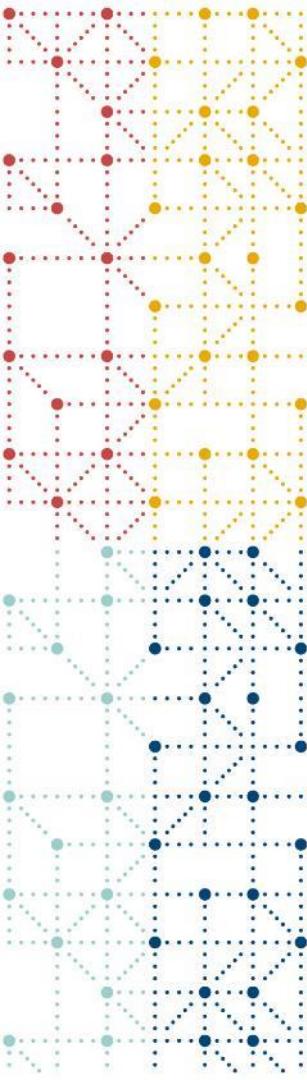
Scan to Volunteer with CDISC



## Call to Action

**Create intentional & diverse patient registration strategies:**

- Include decisive stakeholders
- Start with study protocol
- Be conscience of the ways that data collection & analysis can be burdensome to patients & sites.
- Be more flexible in trial design and reduce the barriers for participation.
- Join our CDISC working group(s) as a volunteer



Thank You!

