



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.



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Health
Equity =

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



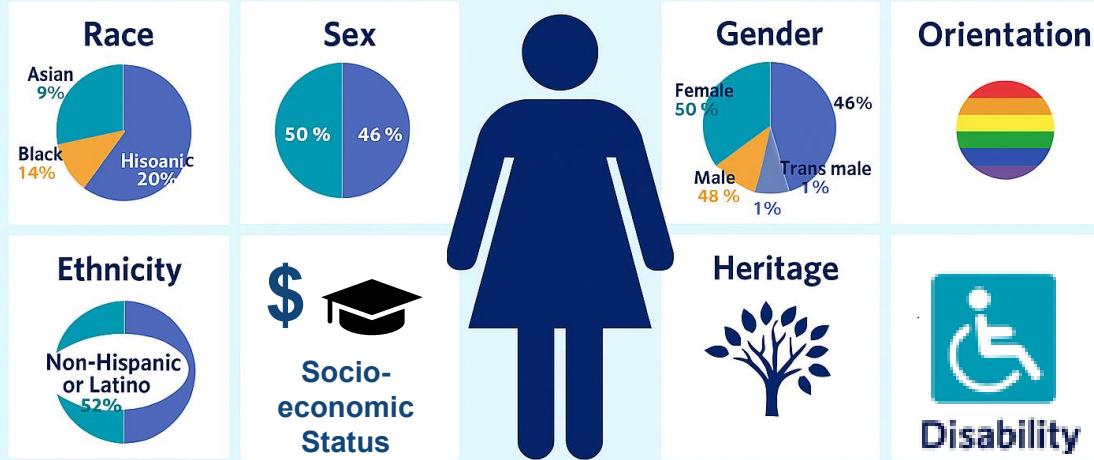
Initial Thoughts



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Social Determinants of Health

REPRESENTATION OF A WHOLE-PERSON IN CLINICAL RESEARCH

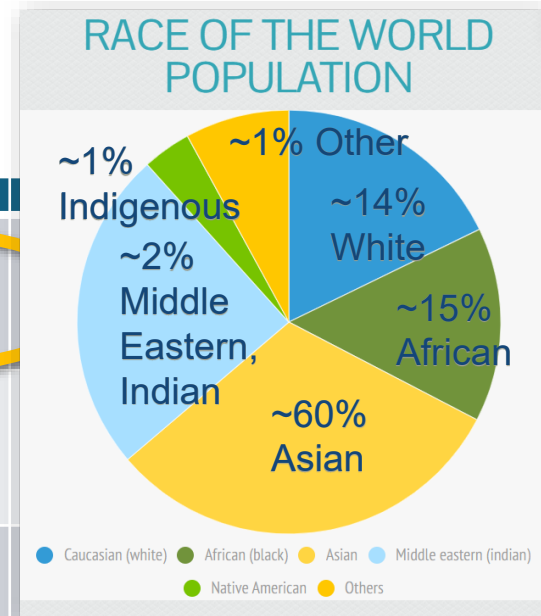


[Real-World Case: Systemic Exclusion of Transgender Women in Clinical Trials](#)



The Equity Gap examples

Study / Source	Key Findings
FDA Global Participation Analysis (2020)	Of 297,000 global trial participants: 76% were white, 11% Asian, 7% Black. Yet 60% of the global population is Asian and 16% African.
Inovalon Real-World Outcomes Study	Black patients with advanced Parkinson's disease were 3x less likely to receive device-aided therapy than white patients.
Breast Cancer Mortality Study	Black women have a 41% higher breast cancer mortality rate than white women and the lowest 5-year survival rate.
Wellcome Trust Survey (UK)	White British individuals were 64% more likely to participate in health research than ethnic minorities.
COVID-19 Trials	Ethnic minorities were underrepresented in COVID-19 vaccine and treatment trials despite bearing a higher disease burden.



effective treatment, and systemic bias.

Skewed data can misinform public health policies and clinical guidelines, excluding vulnerable populations.

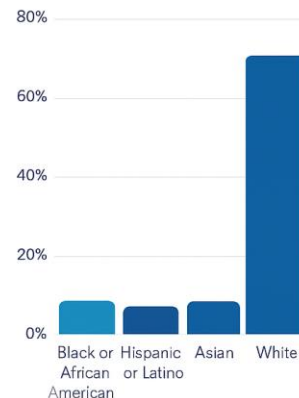
Undermines trust and limits understanding of vaccine efficacy and safety across diverse groups.

Disproportion Clinical Trial Myths

✕ Myth	☐ Implications
Collecting race data is enough to ensure equity.	Oversimplifies gender, income, and other factors that can lead to inequitable interventions.
Diverse recruitment happens naturally if trials are open to all.	Ignores structural barriers to access, such as lack of outreach, transportation, and time.
Standardizing data means treating all populations the same.	Risks erasing data interpretation and reflecting real-world disparities.
Minority participation is low because of lack of interest.	Blames individuals for issues like language barriers, lack of knowledge, and mistrust.
Equity is achieved once diversity metrics are met.	Focuses on metrics rather than on ensuring true equitable access to decision-making.

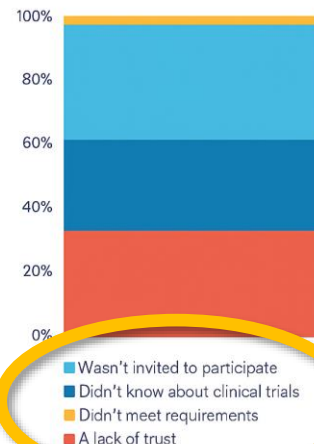
Rejecting the Interest Myth'

Racial Participation in Clinical Trials



Barriers to Participation

Among hewersace underrepresenting people or color, rural communities, and those with lower levels of education¹.





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

As of 24 March 2024:



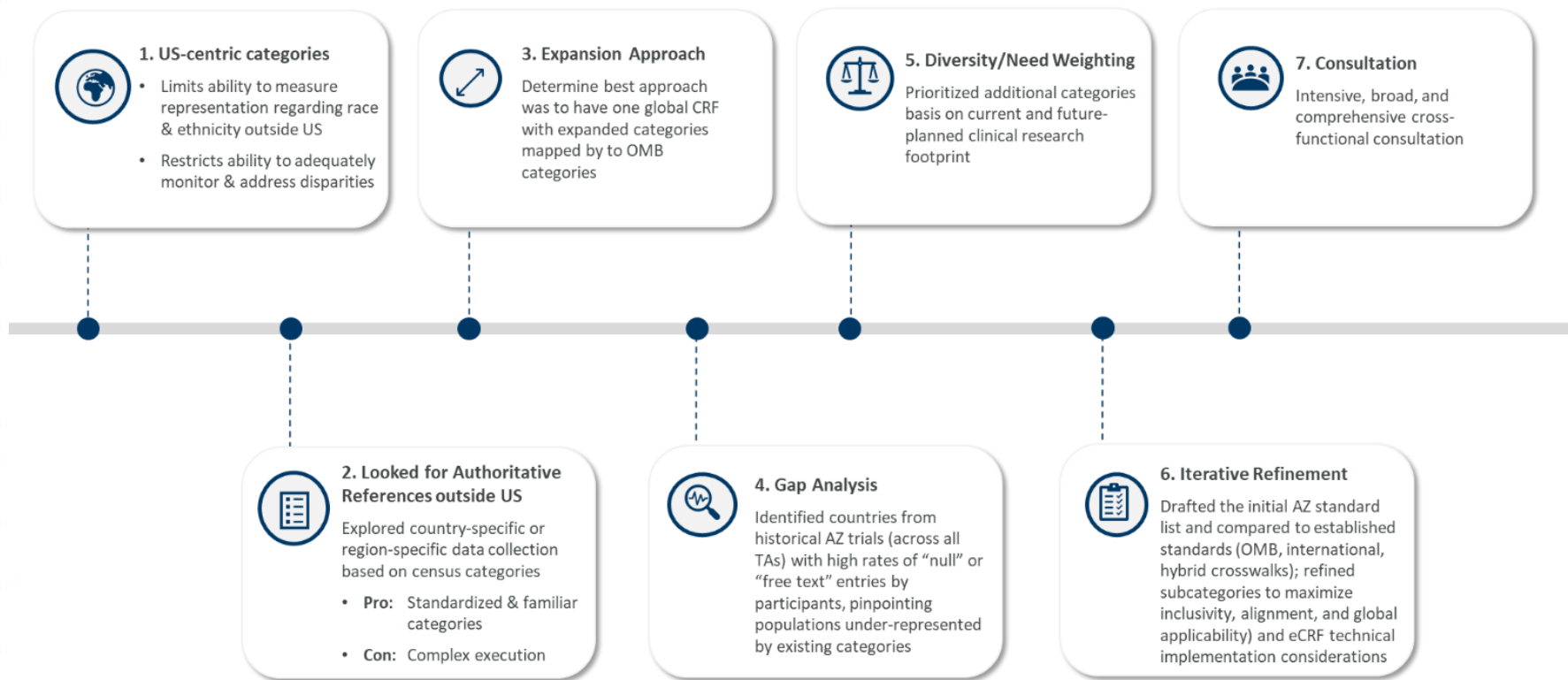
OMB standards for race & ethnicity (Policy Directive 15)

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

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



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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!

