



## Public Workshop to Enhance Clinical Study Diversity

November 29 - 30, 2023 / 10 a.m. - 2:00 p.m. EST







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November 29 - 30, 2023 / 10 a.m. - 2:00 p.m. EST







Meeting will begin at 10:00 a.m. EST





## Day 1 Opening Remarks



Karen Hicks
M.D., FACC, Deputy Director, Office of Medical Policy (OMP)

Center for Drug Evaluation and Research (CDER)
US Food and Drug Administration (FDA)

## Day 1 - Agenda



- Overview of clinical study diversity
  - Where we are now?
- Establishment of clinical study enrollment goals
  - Use of disease prevalence or incidence data
- Approaches to support the inclusion of historically underrepresented populations
  - Age, Sex, Race, Ethnicity, Pregnancy, Lactation, Disability
  - Overcoming barriers to participation

#### **Post Comments to FDA Public Docket**



FDORA Public Workshop to Enhance Clinical Study Diversity

A docket is open for the public to submit electronic or written comments related to the topics addressed during this workshop.



Link to provide comments to the docket

Docket Number: FDA-2023-N-2462

Comment Period Closes: January 29, 2024





### Keynote Address



Patrizia Cavazzoni
Director, Center for Drug Evaluation and Research
US Food and Drug Administration

## Importance of Diversity and Inclusion in Clinical Trials



- Clinical trials provide critical evidence regarding whether a medical product is safe and effective.
- Clinical trials should, to the extent possible, enroll a
  population that is representative of the diversity of the
  population that will use the medical product, if approved.
- FDA is committed to increasing the participation of underrepresented populations in clinical trials through:
  - Issuing guidance(s)
  - Encouraging the use of innovative trial designs
  - Leveraging "fit-for-purpose" technology











# FDA's Longstanding Commitment to Promote Diversity & Inclusion: Topics of Published Guidances for Industry



- Specific populations e.g.
  - Underrepresented racial and ethnic populations
  - Older adults
  - Pregnant individuals
  - Lactating individuals
  - Sex
- Innovative trial designs and technologies e.g.
  - Decentralized clinical trials
  - Digital health technologies
- And many others

## A Balanced Approach is Needed





## **Timeline of Key Events**



April 2022

• Draft Diversity Plans Guidance

June 2022

 Diversity Plans Implementation Committee (DPIC)

December 2022

Food and Drug Omnibus Reform Act (FDORA)

### **Food and Drug Omnibus Reform Act**



- December 2022 the Food and Drug Omnibus Reform Act (FDORA) was passed.
- Sponsors will be required to submit Diversity Action Plans for Phase 3 or other pivotal trials.
- FDA to convene a public workshop to enhance clinical study diversity.
  - This two-day virtual public workshop is one of the deliverables to fulfill these FDORA requirements.
- FDA is required to update existing guidance or release new guidance on Diversity Action Plans

### **Common Goal**



- Ensuring that the clinical study of a drug or device reflects the diversity of the population for which it is being developed is not only important for the patients who will ultimately use the drug or device after approval, but also of interest to:
  - industry
  - clinicians
  - study participants
  - health care systems
  - other interested parties

## **Moving Forward**



- To achieve meaningful representation in clinical trials, it will take our combined effort.
  - FDA is only one piece of this puzzle.
- To obtain the data we need for the diverse population that will use the medical product, if approved, will take <u>ALL</u> of us working together:
  - sharing ideas
  - sharing experiences
  - sharing best practices

## **Key Takeaways**



- FDA has a longstanding commitment to promote diversity and inclusion of underrepresented populations in clinical trials.
- Enrollment in clinical trials should, to the extent possible, reflect the diversity of the population that will use the medical product, if approved.
- A pragmatic approach that balances FDA's intent to increase diversity in clinical trials with bringing urgent medical treatments to patients as soon as possible is needed.
- To achieve meaningful representation in clinical studies, it takes the combined effort of all interested parties in the clinical trials enterprise.





## Session 1: Clinical Study Diversity – Where Are We Now?



Moderator: RDML
Richardae Araojo
Associate Commissioner
for Minority Health and Director
of the Office of Minority Health
and Health Equity, FDA



Lola Fashoyin-Aje
Deputy Division Director
& Associate Director,
Oncology Center for
Excellence, FDA



Eldrin Lewis
Professor of
Cardiovascular
Medicine, Stanford
School of Medicine



Laura Mauri
Senior VP and COO,
Medical and Regulatory
Officer, Medtronic



Allison Cuff
Shimooka
TransCelerate BioPharma



Ricki Fairley
The Black Breast
Cancer Alliance

## Clinical Study Diversity – A Brief Overview: Where are We Now?

ELDRIN F. LEWIS, MD, MPH, FAHA
SIMON H. STERTZER, MD PROFESSOR OF MEDICINE
CHIEF, CARDIOVASCULAR DIVISION
STANFORD UNIVERSITY

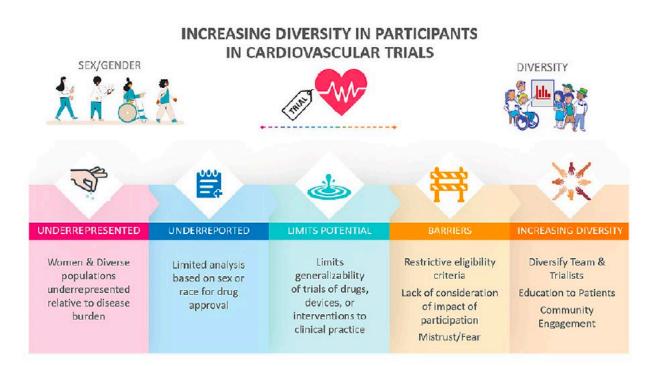


November 29, 2023

## Disclosures

Novartis (Consulting, Institutional research support)
Akebia (Consulting, Institutional research support)
Merck (Consulting, Institutional research support)
Dal-Cor (Consulting)
Astra Zeneca (Consulting)

## Barriers to Enrollment and Strategies



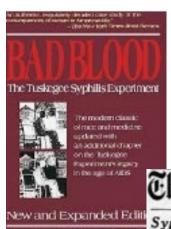


Levers: Trust and Publication Requirements





## Legacy of Tuskegee Experiment and "HeLa cells"



James H. Jone

## The New York Times

Syphilis Victims in U.S. Study Went Untreated for 40 Years

By JEAN RELLE

WASHINGTON, July 25—For 40 years the United States Public Health Service has conducted a study in which human beings with apphilis, who were induced to serve as gaines pigs, have gone without medical treatment for the disease and a few have died of its late effects, even though an effective therapy was eventually discovered.

The study was conducted to decermine from autopsies what the disease does to the luman body.

Officials of the health service who initiated the experiment have long since retired. Current officials, who say they have sectous doubts about the monality of the study, also say that it is too late to treat the typhilis in any surviving participants.

Doctors in the service say they are now rendering whatever other medical services they can give to the survivers while the study of the disease's effects continues.

Dr. Merlin K. DuVal, Assistant Secretary of Health, Education and Welfare for Itsalth and Scientific Affairs, expressed shock on learning of the study. He mid that he was making an immediate investigation.

The experiment, called the Tuskegee Study, began in 1522 with about 600 black men.

October 1972

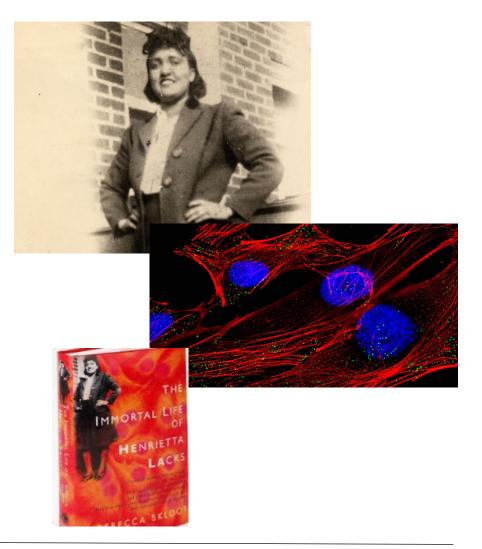
FINAL REPORT
of the
Tuskegee Syphilis Study
Ad Hoc Advisory Panel

Panel members: 5 blacks and 4 whites



In Tuskegee, Painful History Shadows Efforts To Vaccinate African Americans – Houston Public Media

Images may be subject to copyright. Learn More





## Legacy of Tuskegee Experiment and "HeLa cells"

**JANUARY 6, 2017** 

## Stanford researchers explore legacy of Tuskegee syphilis study today



Stanford sophomore Javarcia Ivory (left) and Dr. Owen Garrick compare notes outside a clinic where volunteers receive medical checkups. Photo by Nicole Feldman.

"Researchers have found that the disclosure of the infamous
Tuskegee syphilis study in 1972 is correlated with increases in
medical mistrust and mortality among African-American men.
Their subsequent Oakland project seeks to better understand
African-American wariness of medicine and health care providers."



## Strategies to Build Trust



### **Embed into the Community**



**Diversify the Workforce** 



**Simplify Consent Forms** 

## Structural Racism and Need for Race/Ethnicity Data

### Are you even trying to stop racism if you don't collect data on race?



By Amanda Shendruk Published July 8, 2021









In the UK, US, and Canada, it is commonplace for public institutions like the healthcare system, and the national census—to ask for your race or ethnicity. Because of this, they have robust statistics on the identities of their citizens. These nations, however, are the outliers.

Most of the world's wealthiest countries don't collect any data on the racial or ethnic identity of their people. In many cases, it's illegal. France doesn't keep official statistics of how many Black residents it

A Black Lives Matter protest in Berlin.



#### SDD/DOC(2018)9

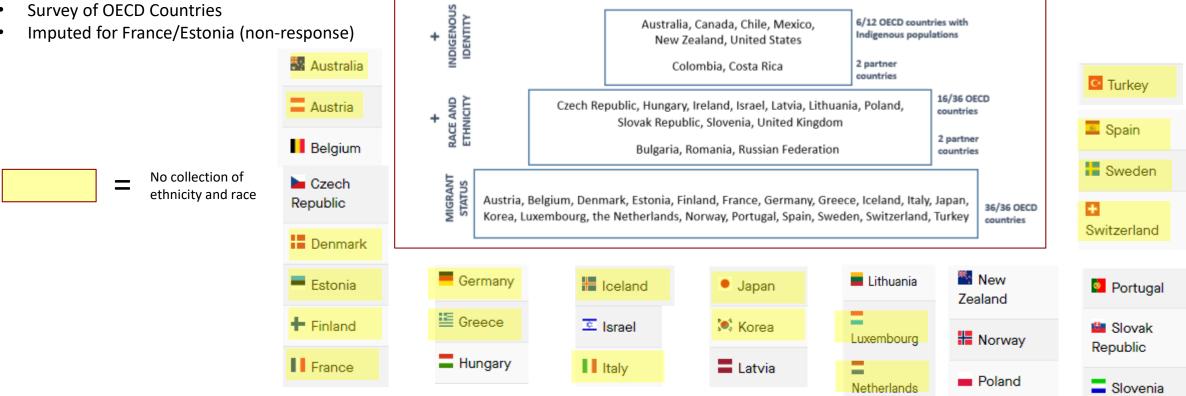
Unclassified

English - Or. English

8 November 2018

#### STATISTICS AND DATA DIRECTORATE

- Survey of OECD Countries





## Collection of Race and Ethnicity Data in Clinical Trials

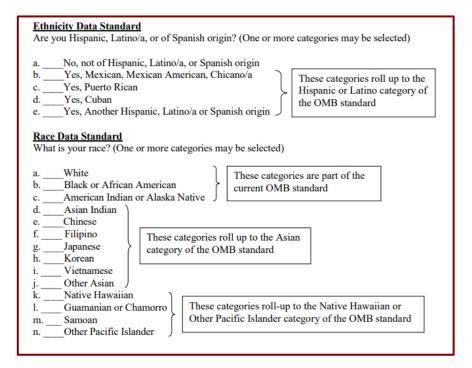
## Guidance for Industry and Food and Drug Administration Staff

Document issued on October 26, 2016

For questions about this document, contact the FDA Office of Minority Health at 240-402-5084 or <a href="mailto:omh@fda.hhs.gov">omh@fda.hhs.gov</a>.

U.S. Department of Health and Human Services (HHS)
Food and Drug Administration (FDA)
Office of the Commissioner (OC)
Office of Minority Health (OMH)
Office of Women's Health (OWH)
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)
Center for Devices and Radiologic Health (CDRH)

October 2016 Clinical Medical

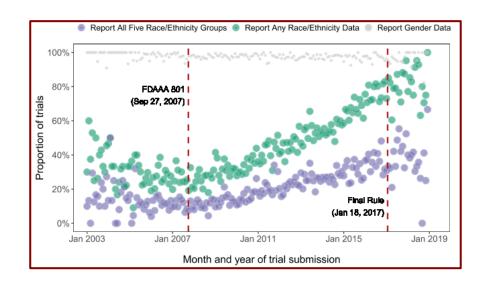


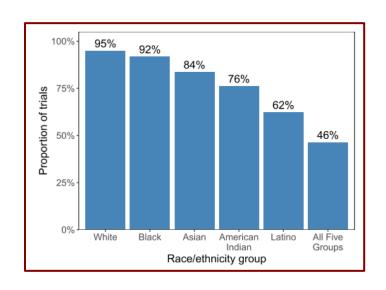
#### **CDER and CBER Requirements**

- Beginning in May 2017
- Presentation of demographic data (section 2.7.4.1.3 and table 2.7.4.2)
- Suggests a tabular display of demographic characteristics by treatment group

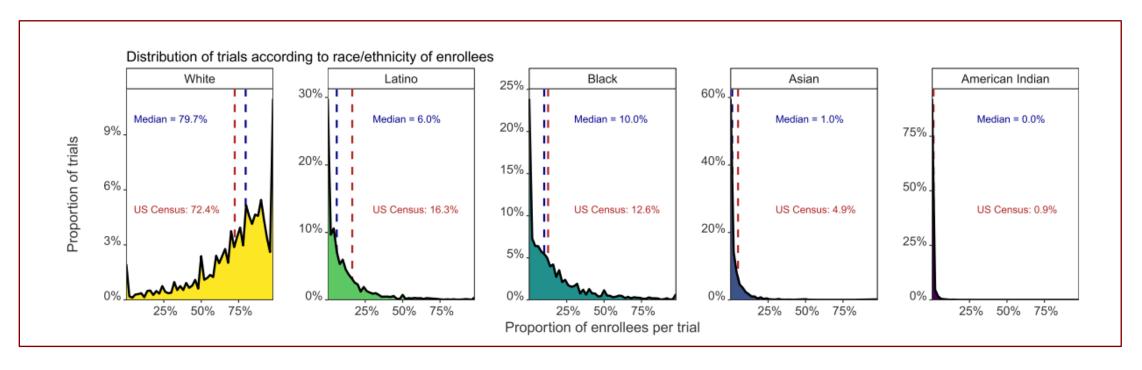


## Race and ethnicity enrollment reporting in United Statesbased clinical trials registered on ClinicalTrials.gov





## Distribution of trials and the representation of each racial/ethnic group organized by racial/ethnic category

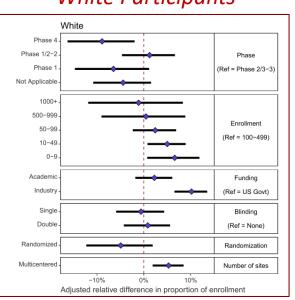


- 2010 Census
- Only trials reporting all 5 categories

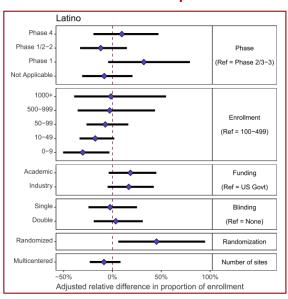


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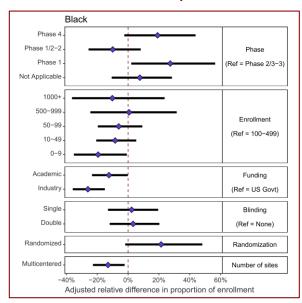
#### White Participants



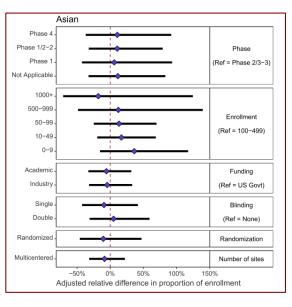
#### **Latino Participants**



#### **Black Participants**



#### Asian Participants





## Institutional and Regulatory Strategies



Recruit and retain researchers from under-represented groups

Provide equal salary support and equal access to funding, networking, and advancement opportunities



Recruit diverse research personnel

Offer cultural competency and implicit bias training

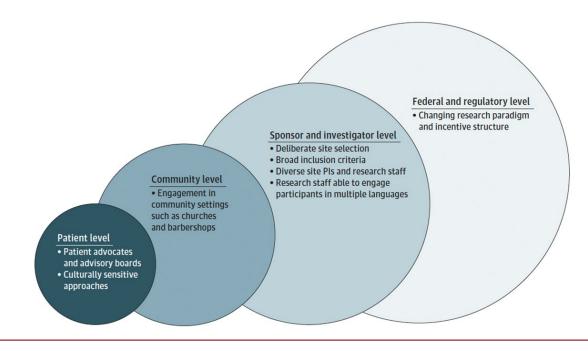
Offer guidance on strategies for representative trial enrollment



Require grant applications to outline strategies for representative trial enrollment and meaningful subgroup analyses

Evaluate diversity of the research team

Report metrics to ensure accountability



#### **Publication Strategies**

- N/A for non-reporting countries
- Diversity of teams
- Standard reporting of demographics
- SDoH elements





## Standardization for Health Equity Research

Circulation: Cardiovascular Quality and Outcomes

Volume 14, Issue 2, February 2021 https://doi.org/10.1161/CIRCOUTCOMES.121.007868



#### **EDITORIAL**

#### The Groundwater of Racial and Ethnic Disparities Research

A Statement From Circulation: Cardiovascular Quality and Outcomes

Khadijah Breathett, MD, MS (D), Erica S. Spatz, MD, MHS (D), Daniel B. Kramer, MD, MPH (D), Utibe R. Essien, MD, MPH (D), Rishi K. Wadhera, MD, MPP, MPhil (D), Pamela N. Peterson, MD, MSPH (D), P. Michael Ho, MD, PhD, and Brahmajee K. Nallamothu, MD, MPH (D)



AHAjournals.org/health-equity

#### Circulation

#### **EDITORIA**

Creation of the American Heart Association Journals' Equity, Diversity, and Inclusion Editorial Board: The Next Step to Achieving the 2024 Impact Goal

Eldrin F. Lewis, MD, MPH; Christine Beaty; Johannes Boltze<sup>©</sup>, MD, PhD; Khadijah Breathett<sup>©</sup>, MD, MS; Walter K. Clair<sup>©</sup>, MD, MPH; Lisa de las Fuentes<sup>©</sup>, MD, MS; Utibe R. Essien<sup>©</sup>, MD, MPH; Heather Goodell; H.E. Hinson<sup>©</sup>, MD, MCR; Kiarri N. Kershaw<sup>©</sup>, PhD, MPH; Joshua W. Knowles<sup>©</sup>, MD, PhD; Sula Mazimba, MD, MPH; Mahasin Mujahid<sup>©</sup>, PhD, MS; Henry E. Okafor, MD; Kyung Woo Park<sup>©</sup>, MD, PhD, MBA; Jonathan Schultz<sup>©</sup>

#### **ELEVATING the focus on:**

- Disparities
- Anti-racism
- Health equity
- Communityengaged/community-based participatory research
- Implementation science

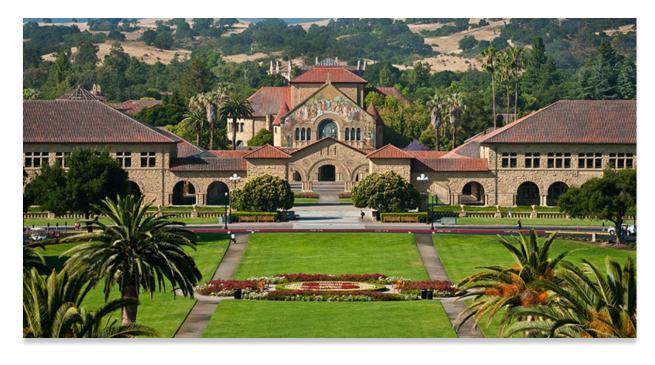
#### **COLLECTIONS** include:

- Disparities and health equity
- Race, ethnicity, and health
- Social determinants of health
- Women's health, sex, and gender









#### Eldrin F. Lewis, MD, MPH, FAHA, FACC

Simon H. Stertzer, MD Professor of Medicine Chief, Division of Cardiovascular Medicine Stanford University School of Medicine E-mail: <a href="mailto:eflewisi@Stanford.edu">eflewisi@Stanford.edu</a>



@EldrinL

Website: med.stanford.edu/cvmedicine







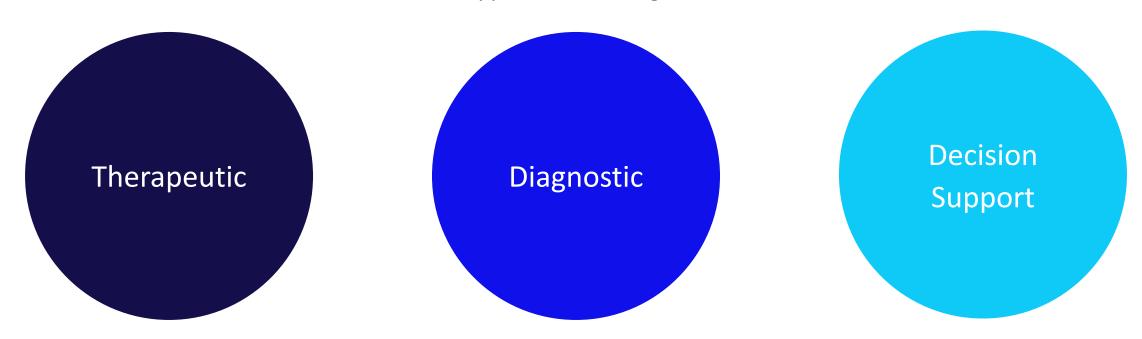


#### **Laura Mauri**

Senior VP and COO Medical and Regulatory Officer Medtronic

## The medical device industry is on a journey to increase diverse representation in clinical trials

Clinical evidence supports a wide range of medical devices:



## Unique realities and opportunities in medical device trials

#### Study design

- Can be focused on well understood mechanisms, use surrogate endpoints, and/or single arm study designs
- Devices may directly collect physiologic data
- Regulatory balance toward post market for additional data on subgroups and indication expansion

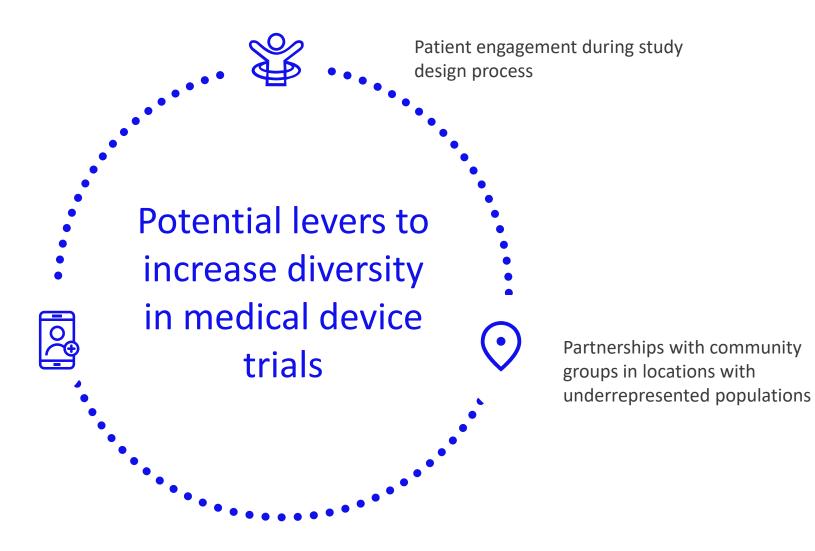
#### **Site selection**

 High volume procedural centers are not evenly distributed across communities

#### **Patient recruitment**

 Investigators and recruitment through traditional referral pathways may not reach the eligible population





New approaches to patient recruiting, including direct-to-patient communication and social media

# What got us here won't get us there

The entire healthcare system has a shared role in driving forward progress

## FDA Public Workshop to Enhance to Clinical Study Diversity

Clinical Study Diversity: A Brief Overview: Where are we now?

Allison Cuff Shimooka, COO, TransCelerate BioPharma Inc.

November 29th, 2023



## TransCelerate was conceived to improve the health of people around the world by <u>accelerating</u> and <u>simplifying</u> the research and development of innovative new therapies









In 2012, R&D Leaders formed a non-profit to collaborate to tackle common operational challenges. Combining the words "Transform" and "Accelerate", TransCeler ate was launched.

Member driven mission to collaborate across the global biopharmaceutical research and development community to identify, prioritize, design, and facilitate the implementation of solutions designed to drive the efficient, effective and high-quality delivery of new medicines.

TransCelerate has grown from 10 pioneering companies to 22 Member Companies, fostering interactions across ecosystem stakeholders, towards improvement in key value drivers in clinical research.

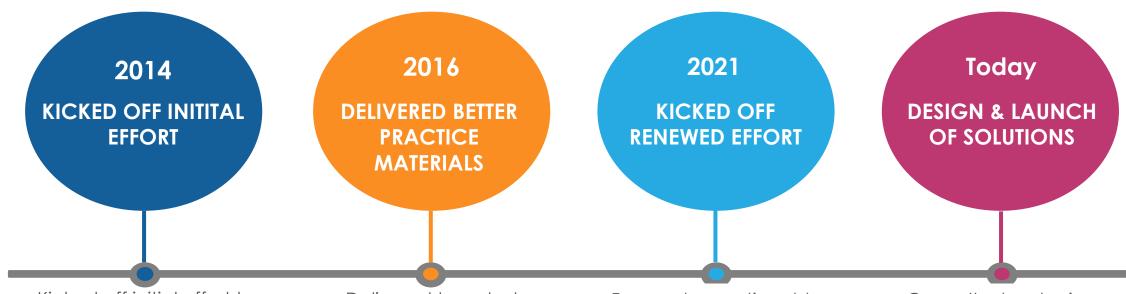


## Diversity of Participants in Clinical Trials

Vision

## VISION

Focused on providing tools & information to organizations working to improve the representation of patient populations in clinical trials for which the studied drugs are intended to be prescribed/used.



Kicked off initial effort to bring awareness to need for diversity in clinical trials Delivered targeted better practice materials for sites and sponsors Focused on actionable tools and resources needed to improve outcomes for diversification of participants in clinical trials

Currently developing solutions in key areas of scope, including diversity roundtable events, assessment, and toolkits.



## **Diversity of Participants in Clinical Trials**

#### Initiative Solutions

Reference Table and Landscape of Available Resources Sponsor Toolkit
Portfolio and Program-Level Considerations for Diversity, Equity and Inclusion of Participants in Clinical Trials (DEICT)

Diversity Community-Based Site Engagement and Capacity Building Sponsor Toolkit Site
Engagement and
Capacity Building
Considerations for
Diversity, Equity and
Inclusion of
Participants in Clinical
Trials (DEICT)

Provides descriptions and links to publicly available resources for Patients, Sponsors, and Sites/HCPs. It also includes a visual landscape of the resources described and linked in the reference tables. Additionally, the landscape indicates resources that serve overlapping stakeholder communities.

Consists of a set of considerations designed to support sponsors with improving diversity in clinical trials related to protocol design and development.

Provides an aggregated collection of insights and perspectives from the attending organizations of a June 9 Roundtable Event, regarding considerations that sponsors, sites, and others have taken to enhance engagement and capacity building for community-based sites.

This toolkit is comprised of a set of mitigation considerations designed to support efforts to sustainably partner with sites to enable the enrollment and retention of underrepresented patient populations in clinical trials. These mitigation considerations consist of perspectives from a series of stakeholder discussions and a Diversity Roundtable event and suggest considerations across different maturity levels.

**Additional Solutions with US Focus:** U.S. Regulatory Landscape, FDA Diversity Plan Early Insights and Considerations





GET IN TOUCH!





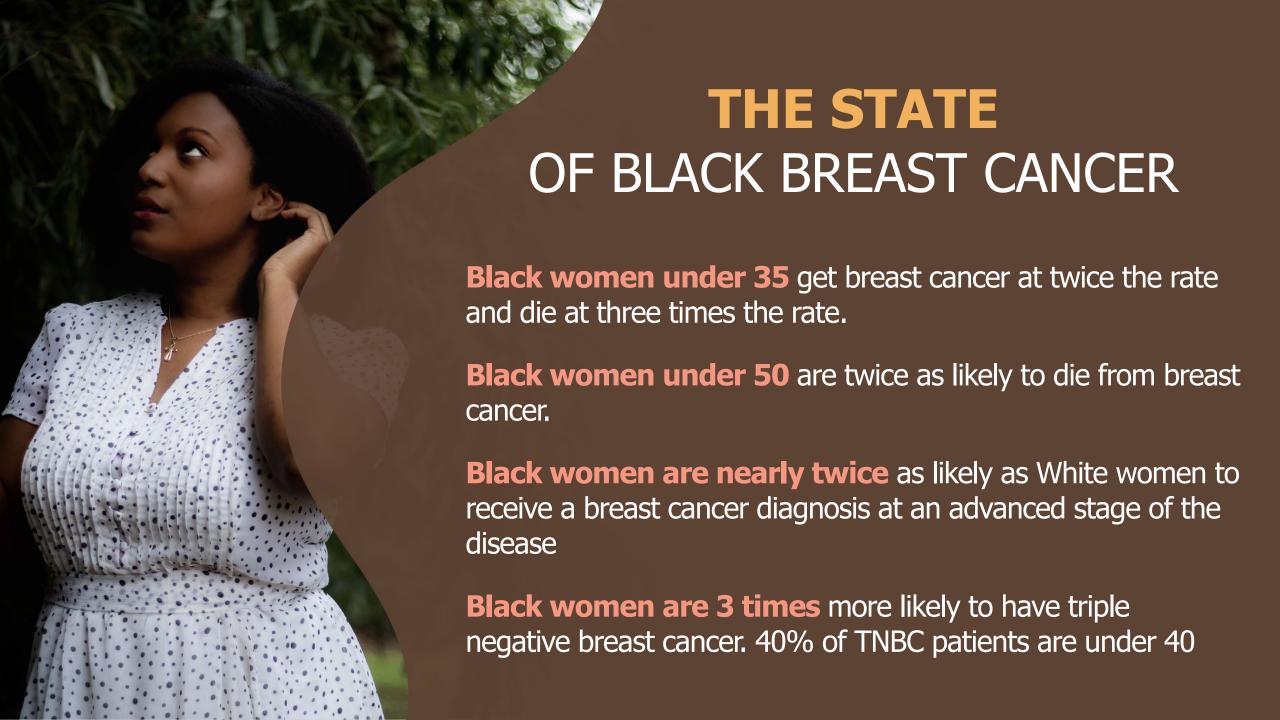
# The State of Black Breast Cancer

Breast cancer is the most fatal health issue for Black women. Our disease is different, unique and warrants special and focused attention. Black women diagnosed with breast cancer face:

41% Higher mortality rate compared to white women.

39% Higher risk of breast cancer recurrence.

71% Higher relative risk of death compared to white women.





Black women are more likely than White women to die of breast cancer at any age across any sub-type

Black women have the lowest 5-year relative breast cancer survival rate compared to all other racial/ethnic groups for every stage of diagnosis and every breast cancer subtype

## The State of Black Breast Cancer

The physiology of Black women has not been a consideration in clinical trial research.

- The clinical trials for the current standard of care drugs have had little to no inclusion of Black women.
- The average Black women participation rate for current breast cancer clinical trials is less than 3%.

Clinical trial education, recruiting, and participation are not commensurate with the state of disease.



## HOW IS THE ECOSYSTEM FAILING BLACK WOMEN?

Doctors don't invite Black
women
to clinical trials.
When the patient brings up the
conversation, they still walk away
not sufficiently informed.



# What Can the Ecosystem Do Better?

## **Educate with Cultural Agility!**

Fear of the unknown!

Can't continue to blame the fear on the earned medical mistrust and the social determinants of health.



## Talking at them and about them VERSUS

Talking to them and with them

What Can the Ecosystem

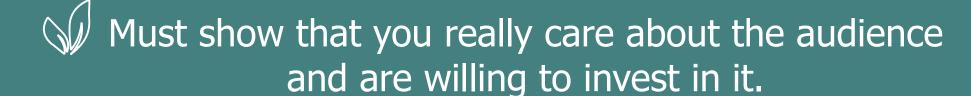
Do Better?

Words like *underserved and unrepresented* should not be used in patient-facing language

Pronouns like **'you'** and **'they'** are disturbing and undermine trust

## What Can the Ecosystem Do Better?

## What's Black about it?



Must be intentional in every word and visual



## How Is the Ecosystem Failing Black Women?



## How Is The FDA Guidance Changing the Game?

The diversity evaluation process does not yet have proven metrics

## **OUR**

## When We Tri(al)

## **MOVEMENT**

- Acknowledges earned mistrust in medical research and re-establish trust.
- Dispels myths about clinical trial research and educate around the basics and benefits of research.
- Empowers Black breast cancer patients to advocate for themselves.





## WHENTIE

**COMMUNITY EVENTS** 







## We Support Trials With:

Recruiting Consulting
Site Guidance And Training
Nurse Navigators To Support Patients









**WEBSITE VISITS** 

126,999

39,118 unique visits



CLINICAL TRIALS SEARCH

14,572











## Session 2: Establishment of Clinical Study Enrollment Goals & Use of Disease Prevalence or Incidence Data



Moderator:
Dionne Price
Director Division of
Biometrics IV, Office of
Biostatistics, CDER, FDA



Scott Halpern
Professor of Medicine,
Epidemiology, and Medical
Ethics and Health Policy,
Perelman School of Medicine,
University of Pennsylvania



Dooti Roy
Director of Global
Biostatistics and Data
Sciences, Boehringer,
Ingelheim, Inc



Bobby Bogaev Chapman Vice President, Heart Failure, Abiomed



Michel Reid
Senior Director and Head,
Global Demographics and
Diversity, GlaxoSmithKline



**Tom Fleming**Professor of Biostatistics,
University of Washington

## Matching measures to goals in efforts to promote clinical trial diversity

#### Scott D. Halpern, MD, PhD

John M. Eisenberg Professor of Medicine, Epidemiology, and Medical Ethics & Health Policy
Director, Palliative and Advanced Illness Research (PAIR) Center
Director, Behavioral Economics to Transform Trial Enrollment Representativeness (BETTER) Center
University of Pennsylvania Perelman School of Medicine



## Trial participation barriers and facilitators

#### **Approach**

#### Recruitment

#### Retention



Diverse

population

with / at risk

for disease

#### **Potential barriers:** (current state)

- Sites/mechanisms of approach
  - Research team composition





#### **BE** facilitation strategies:

 Default enrollment Use of mobile technologies

**Approached** sample with somewhat less representation



#### **Potential barriers:** (current state)

- Mistrust, discomfort Travel- and time-
- related barriers



#### **Potential barriers:** (current state)

- Mistrust, discomfort
- Travel- and timerelated barriers



#### BE facilitation strategies:

- Opt-out consent
- Enhanced active choice
- Financial incentives

**Enrolled RCT** sample with decreased representation

#### **BE** facilitation strategies:

- Financial incentives
- Reducing or supporting in-person committments

Final RCT sample with further decreased representation

### Participation-to-Prevalence Ratio (PPR)









is





### Virtues of Participation-to-Prevalence Ratio (PPR)

- Single metric that can be used across RCTs of different diseases
- Aligned with goal of equitably distributing potential benefits of trial participation



### Problems with sole reliance on Participation-to-Prevalence Ratio (PPR)

- Accurate prevalence data across groups are often unavailable
- Geographic heterogeneity population prevalence where?
- PPR can be "gamed"
  - Selectively recruiting from sites with high %s of underrepresented groups
  - Oversampling underrepresented patients
- Improving equity of opportunity may or may not improve PPR
- Poorly aligned with goal of augmenting biomedical knowledge



## **Why Diverse Clinical Trial Participation Matters**

Aaron L. Schwartz, M.D., Ph.D., Marcella Alsan, M.D., Ph.D., Alanna A. Morris, M.D., and Scott D. Halpern, M.D., Ph.D.

N ENGL J MED 388;14 NEJM.ORG APRIL 6, 2023

Goals of Increasing Diversity in Clinical Trials.			
Goal	Key Challenges	Implications	
Building trust in medical research and institutions	Distrust of medical and scientific professions can be an important obstacle to receiving effective medical care.	The effect on public trust of the design and conduct of clinical trials can be as important to public health as trials' results.  Investments should be made in elucidating how clinical trial practices affect public trust.	
Promoting fairness for potential participants and their communities	Opportunities to participate in trials are limited. Preferences, resources, and trust all affect willingness to participate in trials. Health systems' capacities to conduct trials vary among communities.	Overcoming unjust barriers to participation for disenfranchised groups will require affirmative outreach and recruitment actions.  Grading trials on inclusive outreach and recruitment practices, rather than solely enrollment demographics, may better reflect recruitment equity.  Investing in trial capacity in marginalized communities may benefit such communities broadly by improving adoption of innovations.	
Generating biomedical knowledge	Sample sizes are often too small to permit assessment of treatment efficacy within particular subgroups.  Clinically significant differences in treatment efficacy between groups that are underrepresented and those that are overrepresented in trials may not be common.  Efforts to diversify trials address only some of the barriers to efficient patient recruitment.	Investigators should acknowledge that more inclusive trials may not show whether a treatment is effective for certain patient subgroups or meaningfully shift estimates of the treatment's efficacy.  Shifting the focus of trials to diseases that disproportionately affect marginalized groups may more effectively generate knowledge benefiting these groups.  Future meta-research could clarify the importance and detectability of heterogeneous treatment effects.	



JAMA Internal Medicine | Original Investigation

## Effectiveness and Ethics of Incentives for Research Participation 2 Randomized Clinical Trials

Scott D. Halpern, MD, PhD; Marzana Chowdhury, PhD; Brian Bayes, MS; Elizabeth Cooney, MPH; Brian L. Hitsman, PhD; Robert A. Schnoll, PhD; Su Fen Lubitz, MPH; Celine Reyes, MA; Mitesh S. Patel, MD, MBA, MS; S. Ryan Greysen, MD, MHS, MA; Ashley Mercede, MPH; Catherine Reale; Frances K. Barg, PhD, MEd; Kevin G. Volpp, MD, PhD; Jason Karlawish, MD; Alisa J. Stephens-Shields, PhD

**Parent RCT 1:** 4-arm trial of smoking cessation interventions among

outpatients with depression

**Parent RCT 2:** gamification intervention vs. usual care to promote

ambulation among inpatients

Main effectiveness outcome: signed consent to participate in parent trial

Ethical safety outcomes: undue\* & unjust inducement



Equalized racial enrollment in a real smoking cessation trial with incentives without adverse ethical safety outcomes in any group

Incentive	Black patients	White patients
\$0	17%	30%
\$200	36%	36%
\$500	46%	49%



### Recommendations

- Academic-Industry partnerships to test representativenesspromoting interventions in real RCTs
  - Outcomes fit for purpose: e.g., group-specific enrollment fractions
- Real-world and survey experiments exploring how interventions impact ethical safety outcomes (undue inducement) and trust
- All trials should fully capture the characteristics of all approached patients, not just those who consent
- Get over concerns about paying people to participate or at least be open to further tests

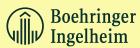


## **Diversity in Clinical Trials**

On the path to create health equity

Dooti Roy, PhD.

FDA Public Workshop to Enhance Clinical Study Diversity November 29, 2023





### "You have to dream before your dreams can come true." - A. P. J. Abdul Kalam





### The Bigger Picture

Equitable access in the second second

Engagement and infrastructure

ទី Vestibulum

Promoting a diverse healthcare workforce

RWE generation

"Health equity is achieved when everyone can attain their full potential for health and well-being" (WHO)

Expanded geographic footprint Diversity

Education and Prevention

Advocacy and policy

Ensuring treatment adherence Awareness

Boehringer focuses on clinical trial diversity as a part of eliminating healthcare disparities for people and animals in vulnerable communities.





### The regulatory context

In response to publication of FDA guidance, Boehringer Ingelheim developed a "Diversity Plan Working Group"

- Cross-functional
- Established Business Practice and Diversity Plan Template documents to ensure teams were working similarly across therapeutic areas and development programs



- Created mechanisms for sharing completed plans and lessons learned
- Provided educational sessions

Future focused: New Clinical Trial Diversity Lead and Team of Diversity Strategists



Enhancing the Diversity of Clinical Trial Populations — Eligibility Criteria, Enrollment Practices, and Trial Designs Guidance for Industry

> Diversity Plans to Improve Enrollment of Participants from Underrepresented Racial and Ethnic Populations in Clinical Trials Guidance for Industry

#### This guidance docu

Comments and suggestions publication in the Federal R guidance. Submit electroni to the Dockets Management Lane, Rm. 1061, Rockville,

> For questions regarding this 0205, (CBER) Office of Cor 402-8010, or CDRHClinical

> > U.S. Dep On Center for Center for I Center for Mi

Postmarketing Approaches to Obtain Data on Populations Underrepresented in Clinical Trials for Drugs and Biological Products

#### Guidance for Industry

DRAFT GUIDANCE

his guidance document is being distributed for comment purposes only

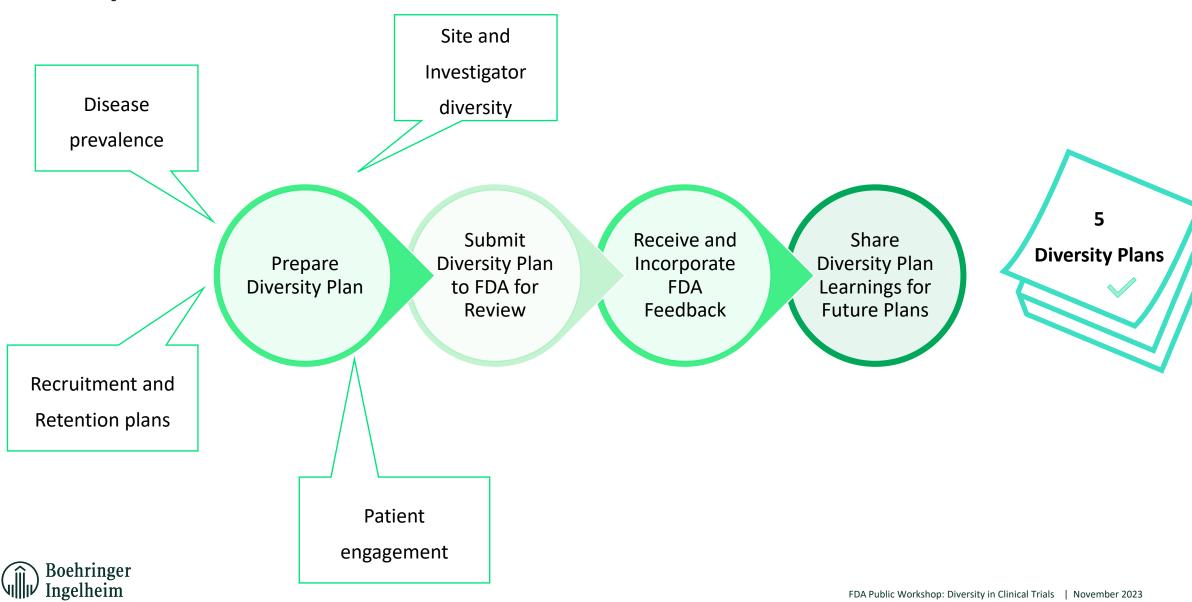
Comments and suggestions regarding this draft document should be submitted within 60 days of publication in the Federal Register of the notice amounting the availability of the draft guidance. Submit electronic comments to https://www.regulations.gov. Submit written comments to the Dockets Management Staff (IFA-030). Food and Drag Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852, All comments should be identified with the docket number listed in the notice of availability that roublises in the Federal Register.

For questions regarding this draft document, contact (OCE/CDER) Nicole Gormley 240-402-0210, or (CBER) Office of Communication, Outreach, and Development, 800-835-4709 or 240-402-8010.

> U.S. Department of Health and Human Services Food and Drug Administration Oncology Center of Excellence (OCE) Center for Drug Evaluation and Research (CDER) Center for Biologics Evaluation and Research (CBE)

> > August 2023

### **Diversity Plan in Action**

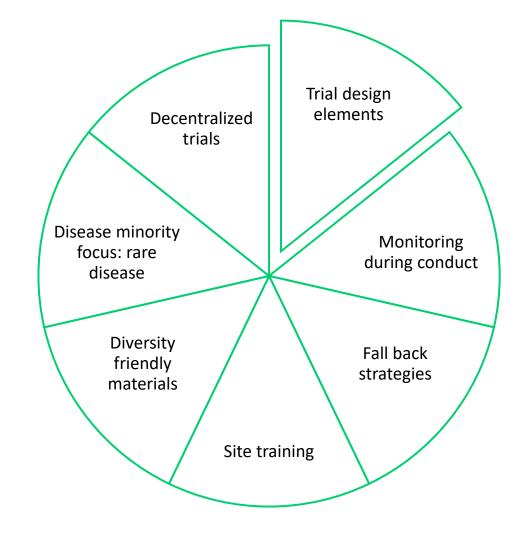


## From Plan → Action: Operations at work

Ensuring diversity in clinical trial is a multi-faceted, nuanced endeavor

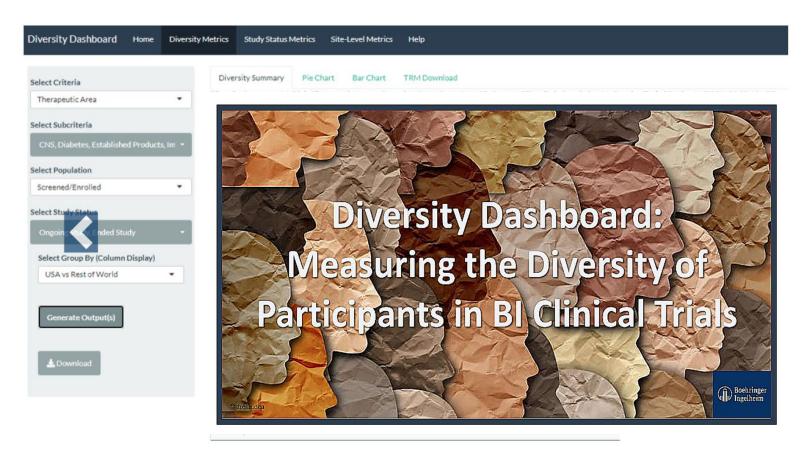
Focused commitment, strategy and execution at a broad spectrum of correlated topics are critical components for success

Learn ← → adapt





#### Monitoring diversity during trial conduct



- A R-Shiny based interactive data visualization dashboard has been implemented
- Site and trial level monitoring
- Enables during conduct real time tracking of diversity metrics
- Keeps teams on target and focused
- Insights for future use



#### Patients at the center

## Diversity and Inclusion Patient Council<sup>3</sup>

- Standing committee of diverse patients
- Direct input into a variety of topics e.g., clinical trial materials, design considerations
- EMPA-ASi trial

#### Yale Diversity Study<sup>2</sup>

- Oncology
- Cross-industry
- Understand facilitators and barriers to participation in early phase clinical trial
- Focus on underrepresented patients

#### Hear Your Heart<sup>1</sup>

- Empower Black and Latina women with heart failure who experience a higher mortality rate
- Encourage patients to prioritize their heart health

**Co-creating** solutions together with the under-served patient community: goal of turning those solutions back to the communities to create **impact for generations**.

1 Heart Failure: Health Disparities & Inequities for Women | BI US (boehringer-ingelheim.com)

2 Confronting health disparities in clinical trials | Boehringer Ingelheim US (boehringer-ingelheim.com)

3 Achieving Health Equity: The Importance of Patient Input at Every Phase of Care | Boehringer Ingelheim US (boehringer-ingelheim.com)





## It really takes a village.

#### Acknowledgement:

Elizabeth Meissner

Dr. Yabing Mai

Julie Shah

Dr. Hilary Wilson

Marie-Claude Raymond

Keri Yale

Dr. Lisa Crose

**Kathleen Collins** 

Vanessa Boulanger

Lesli Nordstrom

Shannon Darbouze

Sharon Attick

Paul Petraro

Christian Niyonkuru

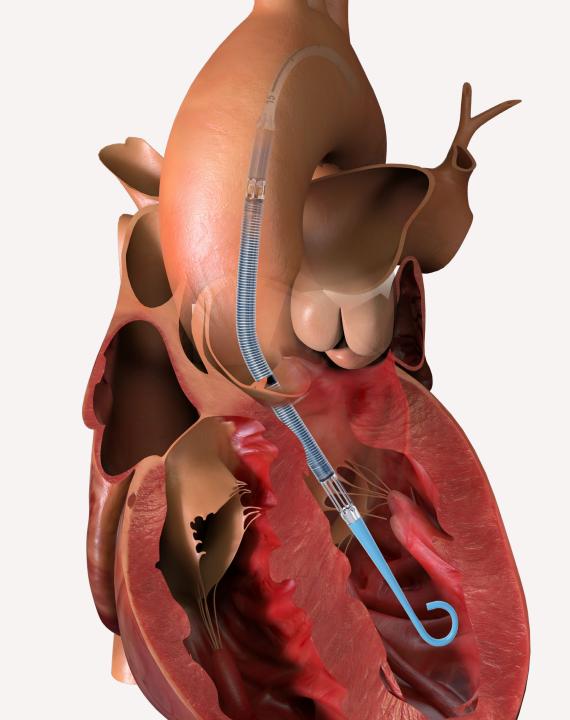
# Establishment of Clinical Study Enrollment

Goals & Use of Disease Prevalence or Incidence Data

FDA Workshop November 29, 2023

Bobbi Bogaev Chapman, MD Vice President, Heart Failure

Johnson & Johnson Med Tech



## Disclosures



Bobbi Bogaev Chapman, MD Vice President, Heart Failure

Full time employee for Abiomed

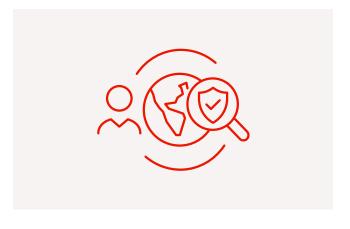
## Prevalence of Disease and Enrollment Targets



Published clinical trial data



Observational registries

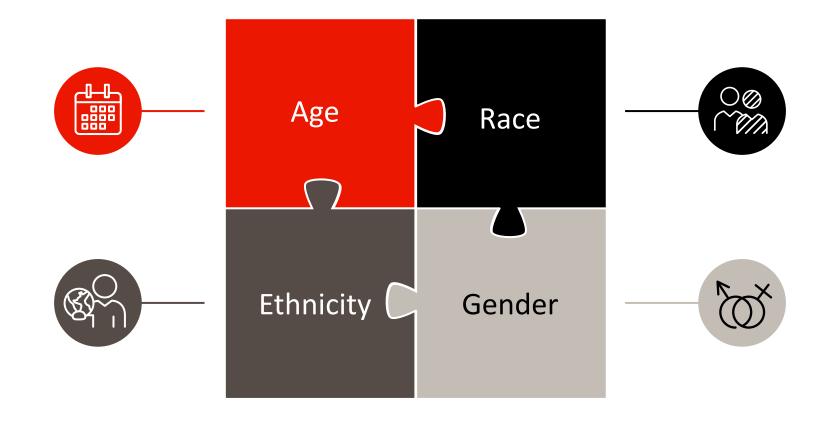


Real world evidence

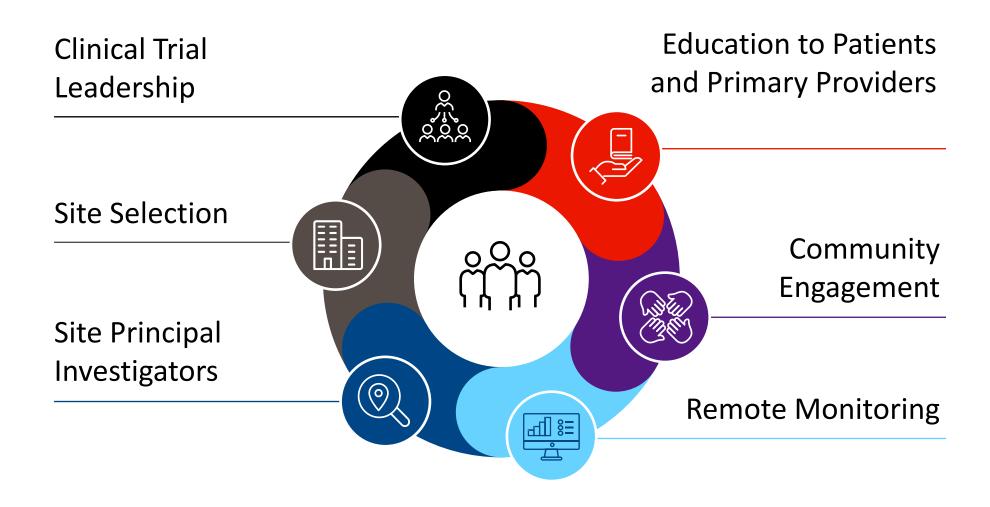
## Human Factors Consideration in Device Design

1980s	199	00s 200	00s	2010s	2022	
pulsatile	pumps bloc	ter durable axial od pumps sive sternotomy nps	<ul> <li>Smaller durable levitated centrif</li> <li>Thoracotomy or</li> </ul>	fugal pumps	The world's first minimally invasive, intravascular durable LVAD	
Heartm	ate XVE H	eartmate II	HVAD	Heartmate III	Impella BTR	

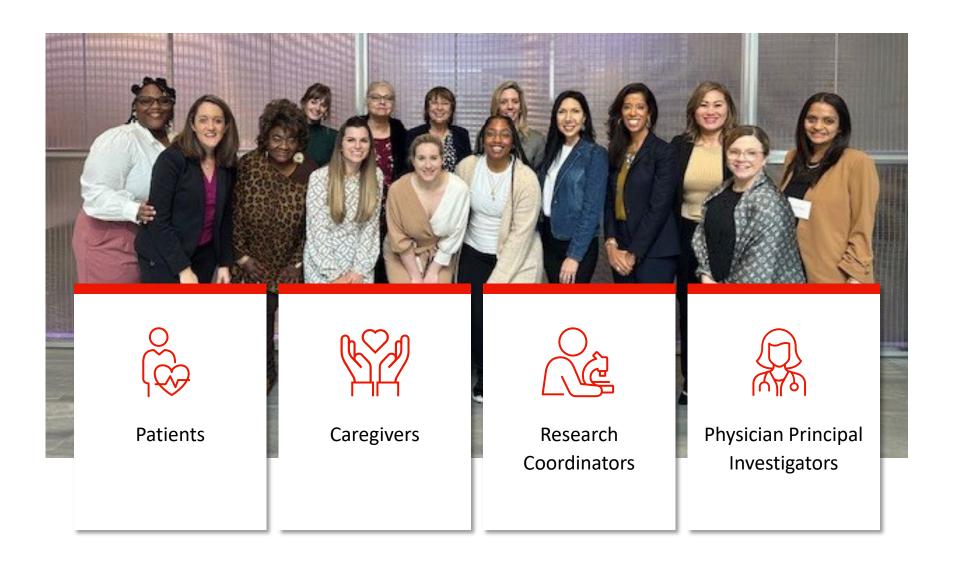
## **Enrollment Targets**



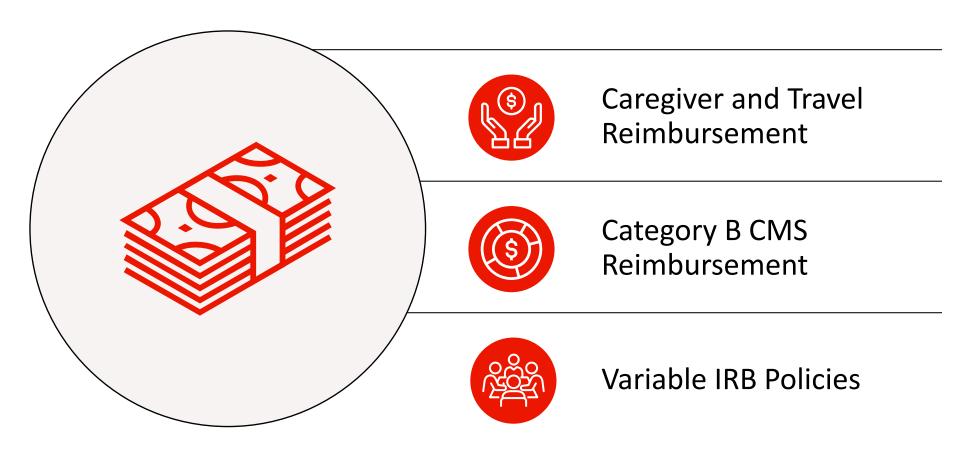
## Strategies to Diversify Enrollment



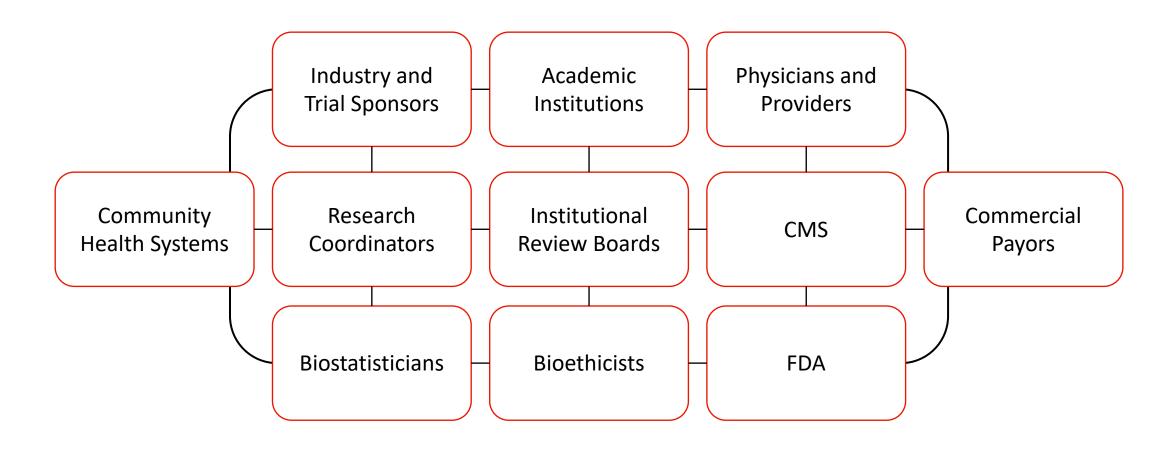
## Community Engagement: Patient Advisory Group



## Reimbursement Challenges to Equitable Enrollment



## Multi-stakeholder Alignment is Needed to Enhance Diversity, Equity, and Inclusion in Clinical Trials



## Thank you

If you have more questions, please contact: Bobbi Bogaev Chapman, MD Vice President, Heart Failure

rchapm11@its.jnj.com



### FDA Public Workshop

## Enhancing Clinical Study Diversity: Introductory Comments

November 29, 2023

Thomas R. Fleming, Ph.D.

Professor, Dept. of Biostatistics

University of Washington

The FDA has made "critically important contributions" to the "pursuit and implementation of evidence-based approaches for the prevention & treatment of diseases" \*

\* Fleming TR, DeMets DL, McShane LM. "The Role, Position and Function of the FDA— The Past, Present and Future". *Biostatistics* 18(3): 417-421, 2017

### FDA Public Workshop

## Enhancing Clinical Study Diversity

### Objectives of this Session:

Discuss the establishment of goals for enrollment in clinical trials, including the relevance of the estimated U.S. prevalence or incidence of the disease or condition for which the drug or device is being developed

Discuss how and when to collect and present the prevalence or incidence data on a disease or condition by demographic subgroup, possible sources for such data and methodologies for assessing such data

### **Enhancing Clinical Study Diversity**

Enhancing evidence-based medicine is of central importance

Clinical Trials should be properly designed and conducted

Among key design and conduct considerations are:

- ✓ Having proper primary & secondary endpoints: 'Feels, functions, survives' measures or validated biomarkers
- ✓ Being randomized, when possible, to enhance reliability
- ✓ Use of Controls receiving a proper version of Standard-of-Care
  - ✓ Ensuring evidence-based generalizability of results
    - Enabling properly informative descriptive presentations by important baseline characteristics

### Enhancing Clinical Study Diversity

Ensuring proper generalizability of clinical trial results:

Quality Research: Active rather than Passive Approaches are Needed

- ✓ Establishing of enrollment targets in clinical trials, including proper engagement of often underrepresented populations
  - Targets enlightened by the prevalence or incidence data for a disease or condition by demographic subgroup
- ✓ Creative proactive approaches to increase ability to achieve targets
  - Selection of sites that increase diversity of enrollees
  - Ensure adequate engagement of North American sites

CRDAC-O'Neill

- ✓ Monitoring enrollment diversity throughout trial conduct
  - Shared responsibilities of the study sponsor and the DMC

## Enhancing Clinical Study Diversity —An important role of Data Monitoring Committees

#### Data Monitoring Committee (DMC) Mission:

"Safeguard the interests of study participants as well as to preserve the integrity and credibility of clinical trials, enabling them to achieve both timely and reliable evaluations of experimental interventions for the benefit of the broader clinical community."

### ✓ DMCs: Enhancing engagement of often underrepresented populations

"There is need for proper diversity in clinical trial leadership, in DMC membership, and in patients enrolled in the clinical trial.

Not only should DMCs have inclusion of diverse members, but DMCs also should monitor the composition of the trial cohort...

DMC's have an opportunity throughout trial conduct to examine the representation of the enrolled cohort, and to make recommendations to enhance enrollment of specific groups that may be under-represented in the trial. This may include considerations around geography, race, sex, age, and other populations of interest." (HFC Article: To be submitted)

### Conclusions: Enhancing Clinical Study Diversity

Ensuring proper generalizability of clinical trial results:

Quality Research: Active rather than Passive Approaches are Needed

- ✓ Establishing of enrollment targets in clinical trials, including proper engagement of often underrepresented populations
  - Targets enlightened by the prevalence or incidence data for a disease or condition by demographic subgroup
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\* Fleming TR, DeMets DL, McShane LM. "The Role, Position and Function of the FDA— The Past, Present and Future". *Biostatistics* 18(3): 417-421, 2017





Session 3A: Approaches to Support the Inclusion of Underrepresented Populations and to Encourage Clinical Study Participation – Age, Race, Ethnicity, Sex, Pregnancy, and Lactation



Moderator:
Larissa Aviles-Santa
Director, Division of Clinical and
Health Services Research,
NIMHD, NIH



Rose Blackburne
VP, Global Therapeutic Area Head,
General Medicine & Women's
Health, Medical Science & Strategy
(MSS) PPD, Thermo Fisher
Scientific Company



Anne Lyerly
Professor of Social
Medicine, The University
of North Carolina
at Chapel Hill



Michelle Kipke
Professor of Pediatrics, Associate
VP of Strategic Health Initiatives,
Keck School of Medicine,
University of Southern California



Jennifer
Jones-McMeans
Divisional VP of Global Clinical
Affairs. Abbott



Dawn Corbett
Inclusion Policy
Officer, Office of
Extramural Research,
NIH



FDORA Virtual Public Workshop to Enhance Clinical Study Diversity convened by CTTI and FDA November 2023

Session 3A: Approaches to Support the Inclusion of Underrepresented Populations and to Encourage Clinical Study Participation – Age, Race, Ethnicity, Sex, Pregnancy and Lactation

#### Rose Blackburne, MD, MBA

Vice President, Global Head, General Medicine and Women's Health, Medical Science and Strategy PPD, part of Thermo Fisher Scientific

The world leader in serving science

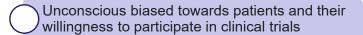


## Identified Barriers to Achieving Proper Diversity in Clinical Trials

**Key Innovative Solutions to Address Diversity in Clinical Trials** 



Historic lack of trust and cultural competency





Targeted minority patient engagement plans



Limited health literacy and clinical trial awareness

Historic unethical clinical research practices



Enhanced site and patient educational materials and decentralized trial tools



Limited access to clinical trials

Varying levels of understanding, ICF reading level too high



Digital tools, SiteCoach, data-driven feasibility and site placement



Overly restrictive eligibility criteria and complicated protocol design

Traditional sites lack proper training and experience recruiting minority patients



Protocol optimization, broadened and inclusive study design recommendations



Financial toxicity and burden in personal life

ranges

work schedules, logistical cost

Distance to site, child/senior care, impact on

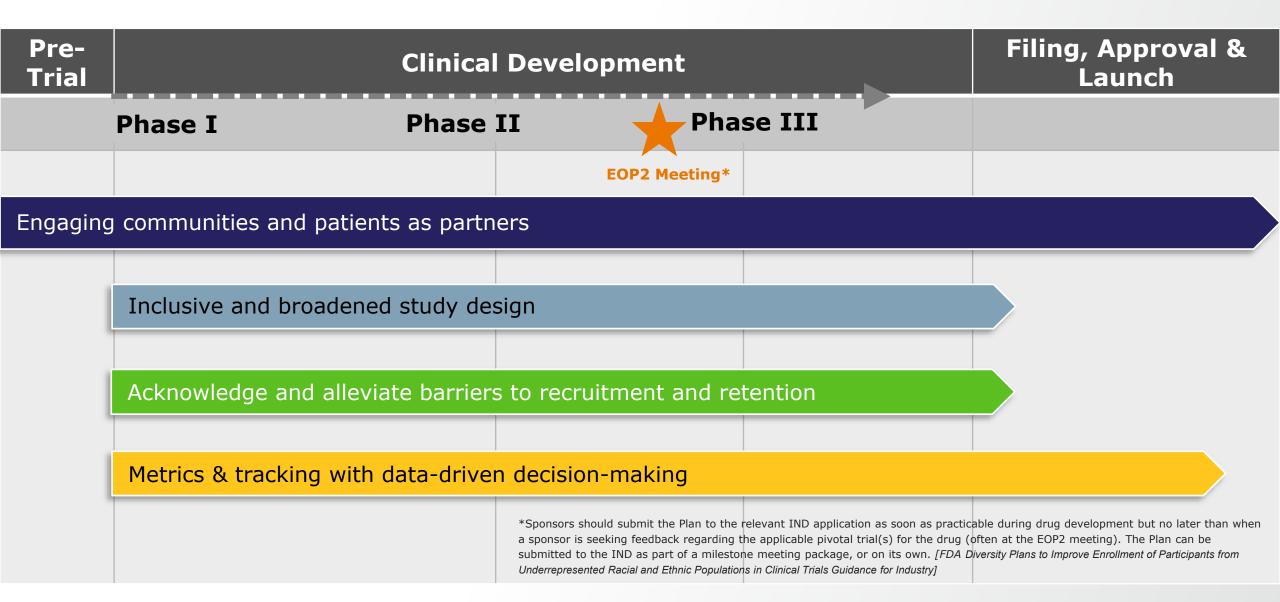
Eligibility criteria inadvertently excluding minorities due to comorbidities and lab values



Patient concierge, travel and transportation reimbursement



### **Diversity in Every Phase of Clinical Development**



#### **Engaging Communities and Patients as Partners**

- Get to know community well ahead of a trial
- Attend/sponsor community events
- Host open house events for community members to tour research sites

Establish Rapport

## Build Shared Values

- Host focus groups for patients and community members to share perspectives
- Establish patient advisory boards and steering committees
- Elicit feedback to understand the factors that impact recruitment and retention

- Invite community members and patient champions as consultants throughout the study lifecycle
- Use patient and community input to develop culturally appropriate health and research materials

Support and Train

#### Stay Involved

- Thank-you letters for trial participation; disseminate study results to participants and community
- Collect feedback from patients and caregivers after participation has ended
- Maintain authentic relationships and stay involved in community



## **Inclusive and Broadened Study Design**

## Many populations are inadvertently excluded, including and not limited to:

- People with cognitive and physical disabilities
- People living with HIV, hepatitis
- People with co-morbidities
- People with substance use disorders
- Individuals with laboratory values that can vary by race and ethnicity (e.g., serum creatinine)

#### Example I/E Criteria Considerations

Serum
Creatinine
Reference
Level

WBC/ANC Reference Levels

Comorbidities

HIV and HBC/HCV

**Minimum Age** 

#### **Opportunities**

Avoid vague criteria and specify exclusionary characteristics.

Investigator

**Judgment** 

**Document** and **track** reasons for screen fail.

Assess via
CrCI. If renal
toxicity and
clearance of IP
is not of
concern: CrCI
values of
>30mL/min
should be used
for inclusion.

Provide
race-specific
WBC and ANC
reference
intervals for
proper diagnosis
and clinical
research.

Offer clear guidance on comorbidities that are exclusionary and follow for every patient and avoid the use of investigator judgment when possible.

Clearly define exceptions for HIV patients that utilize treatment and/or maintain a low viral load.

Reexamine types of studies where HBV/HCV patients on an effective nonconflicting antiviral or other effective therapy are excluded. When appropriate, consider the inclusion of adolescents (ages 12-17) in disease and/or target-appropriate adult clinical trials at all stages of development.

Patient Concierge,
Travel and
Transportation
Reimbursement



Culturally
Competent and
Inclusive Study
Materials



Digital Technologies and Broadband/
WiFi Access



Support to Address Individual Site-Level Barriers



Strategies must consider the languages and varying levels of health/digital literacy, broadband access for digital tools, and accessibility among potential participants to enable inclusive and equitable participation

## Metrics and Tracking with Data-Driven Decision-Making

- ✓ Collect and track relevant demographic data in real time (e.g., race and ethnicity, sex, socioeconomic measures) and conduct ongoing data-driven assessment
- For relevant studies, collection of sexual orientation and gender identity (SOGI) data should be considered
  - Current gender identity (Person's current internal sense of gender.) "How do you describe yourself?"
  - Sex assigned at birth (Sex perceived at birth based typically on genitalia and listed on their birth certificate.)
  - **Sexual orientation** (Person's romantic, relational and sexual orientation toward one or multiple genders.) "Do you think of yourself as ..."
- Clearly define and track KPIs to monitor program performance and refine strategies to effectively reach target patient populations

#### Sample KPIs: Monitoring and Measuring Program Performance

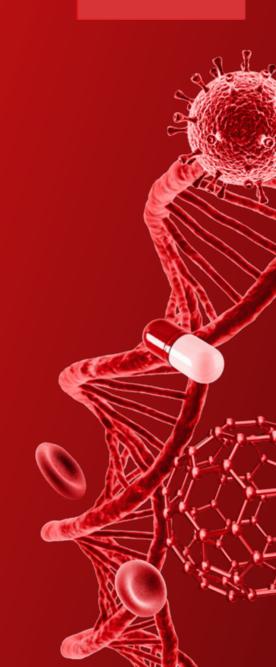
	KPI	Metric Definitions
	Site has staff with language capabilities matching patients	Site has staff/translators to include diverse populations of the community (Spanish, Creole, Tagalog, Mandarin, etc.)
	Site assessed for accessibility standards (mobility, sensory, vision, audio, etc.)	Site is inclusive of and accessible to patients with disabilities
	Site staff trainings (e.g., unconscious bias, cultural competence, psychological safety)	Site (investigators, CRCs, etc.) participates in diversity training
	Site staff demographics reflect community diversity demographics	Site staff demographics reflects the community they serve
	Specific plan per site/study to enroll and retain diverse participants	Numerical, percentage or ratio recruitment goal set for ethnicity, gender unique to each site and the surrounding community that matches overall study recruitment goal

Everyone should be able to see themselves represented in clinical trial data collection, with no penalty for those who opt out of sharing their personal information



## Thank you

https://www.ppd.com/how-we-help/patient-diversity-in-clinical-trials/

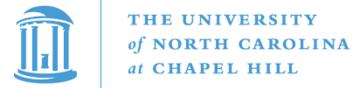


## Ethical Considerations for Inclusion of Pregnant Persons in Biomedical Research

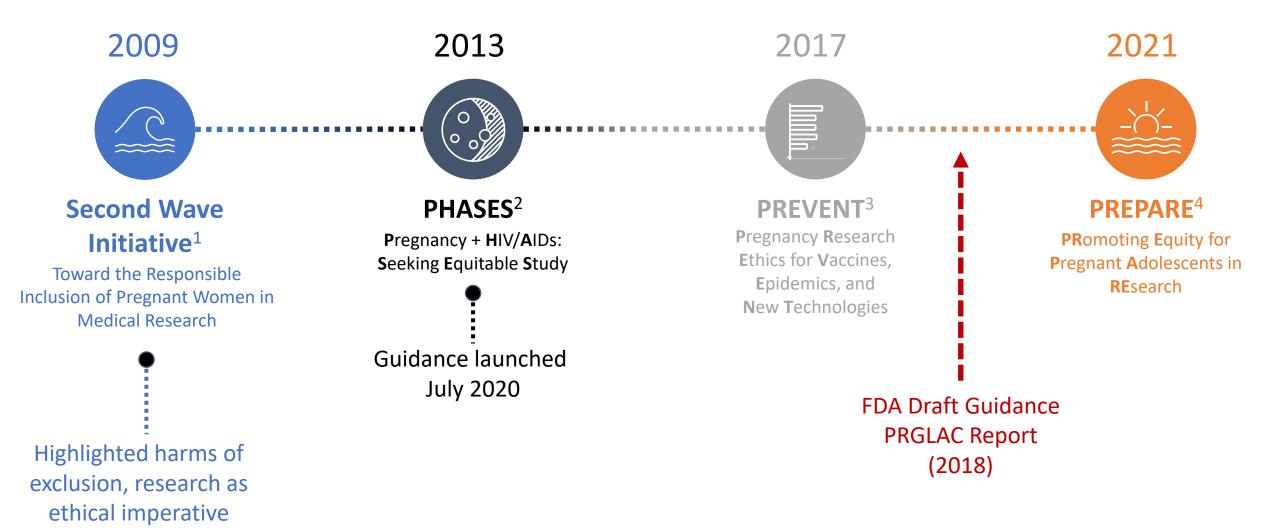
#### Anne Drapkin Lyerly, MD, MA

Professor, Departments of Social Medicine and Ob-Gyn Center for Bioethics

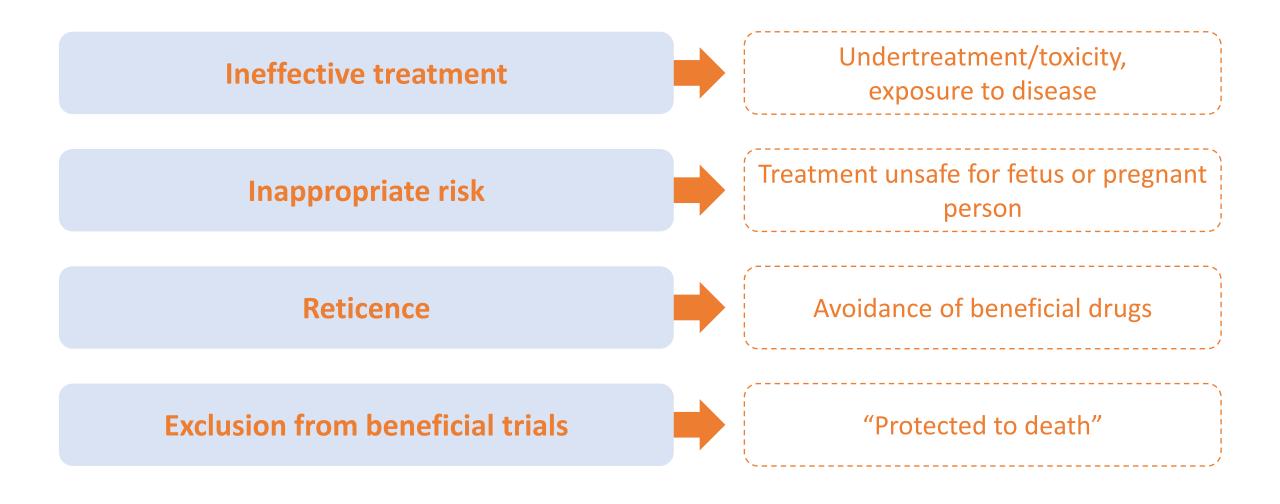
Public Workshop to Enhance Clinical Study Diversity



## Toward a Paradigm of Inclusion



### Harms of Exclusion from Research



## Barriers



## In a few words, what do you think is the greatest barrier to including pregnant women in clinical trials?



## Conceptual Shifts Toward Inclusion

#### **Exclusion**



Vulnerable population



Protection from research



**Presumptive exclusion** 

#### **Inclusion**



## Conceptual Shifts Toward Inclusion

#### **Exclusion**

*Vulnerable* population

Protection from research

**Presumptive exclusion** 

#### **Inclusion**

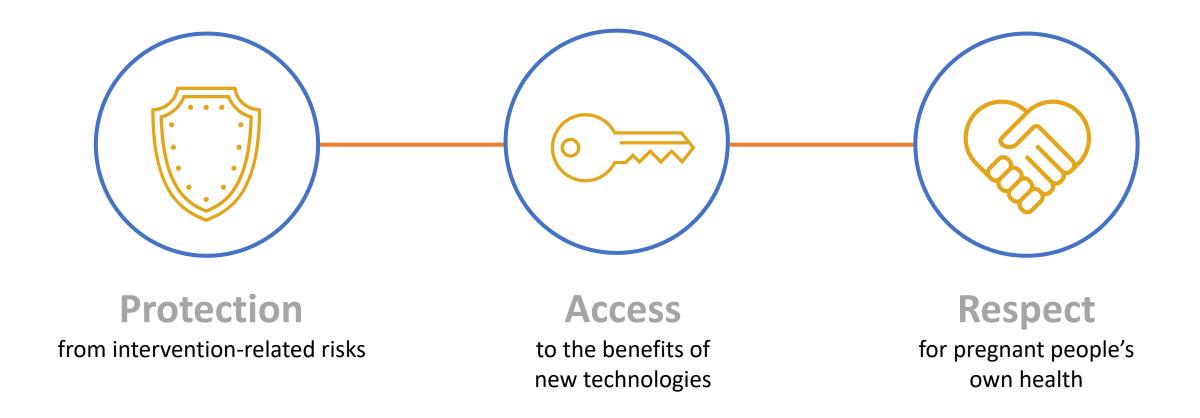








# Ethical Foundations of Research in Pregnancy





# Strategies to advance ethical inclusion



#### **Affirm**

the need for research with pregnant populations

### **Enhance training**

of those involved in conduct and evaluation of research

# Design for inclusion,

integrating pregnant people and gathering pregnancy-specific data

# **Evaluate** for inclusion,

and require justification for exclusion

# **Center** pregnant persons

throughout the design,
evaluation and
conduct and reporting
of trials

Work from the PHASES and PREPARE Projects supported by the National Institute of Allergy and Infectious Diseases of the National Institutes of Health under award number R01AI108368. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

hivpregnancyethics.org

@pregnancyethics





# Session 3B: Approaches to Support the Inclusion and Clinical Study Participation of Individuals with Disabilities Including Intellectual or Developmental Disabilities



Moderator:
David Resnik
Bioethicist, National
Institute of Environmental
Health Sciences, NIH



Willyanne
Decormier Plosky
Program Director, Multi-Regional
Clinical Trials Center Harvard
University



**Kellie Malloy Foerter**VP, Global Trial
Management,
Immunology, Cardiovascular
and Neuroscience, BMS



**Ari Ne'eman**PhD Candidate, Harvard
University



Alison Barkoff
Performing the Duties
of the ACL Administrator
and Assistant Secretary
for Aging



#### Session 3B:

Approaches to Support the Inclusion and Clinical Study
Participation of Individuals with Disabilities Including Intellectual or
Developmental Disabilities

Public Workshop to Enhance Clinical Study Diversity November 29, 2023

#### Disclaimer

- This material and opinions expressed here are not intended to represent the position of Brigham and Women's Hospital, Mass General Brigham, Harvard University, HHS, FDA, or any organization, institution, or entity.
- The MRCT Center is supported by voluntary contributions from foundations,
  corporations, international organizations, academic institutions, and government entities
  (see <a href="https://mrctcenter.org/">https://mrctcenter.org/</a>), as well as by grants. We are committed to autonomy in our
  work and to transparency in our relationships.
- This work is licensed under a CC BY-NC-SA 4.0 license.





### The Multi-Regional Clinical Trials Center (MRCT Center)

The MRCT Center is a research and policy center focused on addressing the conduct, oversight, ethics, and regulatory environment of clinical trials.

#### **Our Vision**

Improve the integrity, safety, and rigor of global clinical trials.

#### **Our Mission**

Engage diverse stakeholders to define emerging issues in global clinical trials and to create and implement ethical, actionable, and practical solutions.









### "We are regular people. We should have the same health care as others."

- 1 billion people and 240 million children globally have a disability.
- There are many different kinds disabilities. People can identify as having more than one.
- Federal laws like Section 504 of the Rehabilitation Act and Section 1557 of the Affordable Care Act (ACA) prohibit discrimination against people with disabilities and require equal access to healthcare.
- Diversity Action Plans are now required f or Phase 3 and later trials. Guidance from the Food and Drug Administration (FDA) focuses on race and ethnicity but does mention disability. People with disabilities are the largest minority group in the US (1 in 4 adults; 1 in 3 Black and Hispanic adults).







### "Medical Workers Must Treat Us Equally."



- 99% of studies required informed consent.
- 85% allowed for investigator discretion to exclude people.
- Only 24% of the exclusions had a listed justification.
   The listed justifications were often very broad.
- People with cognitive and intellectual/developmental disabilities were excluded in 42% of overall studies (dementia, depression, diabetes, lung cancer), and in approximately 90% of dementia studies.

https://www.healthaffairs.org/doi/full/10.1377/hlthaff.2022.00520



# "We have the right to information in a way we can understand. Buildings must have a way for us to get in. We have the right to get the help we need."

# Accessibility by Design in Clinical Research Toolkit website:

https://mrctcenter.org/diversity-inclinical-research/tools/abd\_toolkit/





- Don't assume: Ask, and practice active listening.<sup>53</sup> Provide the opportunity for participants to take time to think and to ask for something to be repeated, rephrased, or expressed visually.
- Respect autonomy, treat people with disabilities as capable adults, and speak directly to the individual (e.g., not to a family caregiver or supporter). When possible, keep your face and mouth visible. Treat physical aids as an individual's personal space. Do not pet or walk beside service animals.<sup>54, 55</sup>
- Ask the participant how they would prefer to be addressed (e.g., person-first language, identity-first language)(see Tool B.l.i). Use plain ["every day" or easy-read] language. 56, 57 Use clear sentences, break down ideas, ask questions one at a time, and avoid medical jargon and acronyms. 58
- Provide a quiet and relaxing environment. Avoid cell phones, computers, and ambient office noise and smells while communicating with the participant.
- 3. Design for clarity and consistency
- Provide consistent labeling, terminology, and headers.<sup>74</sup> Define terminology and any unusual words.
- Supply instructions, reminders, and opportunity for easy error correction.



Use breadcrumbs (e.g. Home > Tools > Accessibility by Design Toolkit), megamenus (i.e. a dropdown menu or expandable navigation area that shows in



# "Society must break down the walls that keep us from having the same rights as everyone else. Discrimination is one wall."

 Revise eligibility criteria in study protocols. Provide justification for exclusions.

 Expect to provide reasonable accommodations, and clearly state they will be available.

#### Problematic

Subject is judged by (or is in the opinion of) the Investigator inappropriate for the study.

Subject has any condition that confounds the ability to interpret data from the study.

Participant lacks capacity to consent for themselves.

#### Preferred

- Subject is documented by the Investigator to be inappropriate for the study due to the following specific scientific, safety, or ethical reasons: [Specify] (e.g., subject has a cochlear implant and can't complete the necessary MRI for safety reasons).
- Subject has a physical or mental condition, as predetermined by the study team, that is expected to significantly impact study data interpretation: [Specify]

  Predetermination of significant impact is due to the following specific scientific reasons: [Specify] (e.g., subject has a condition documented to be associated with atypical enzyme [X] function).
  - Participant lacks the cognitive capacity to consent for themselves, as determined [when capacity is questionable] by a capacity assessment conducted with a supporter and any other accommodations desired by the participant.





"We have the right to make decisions about our lives."

# **Supported Decision-Making**

A Guide for Supporting Clinical Trial Participants With Cognitive or Communication Challenges

- Supported decision-making.
- Participation as researchers:
   RE4ALL: Accessible Research
   Ethics Education for Community
   Research Partners. Available from:
   <a href="https://re4all.org/">https://re4all.org/</a>

People who take part in research are called participants. Supported decision-making is a strategy that lets participants choose supporters to assist them.

Supporters can be family members or friends. Others may be allowed, but it depends on the state law.

Supporters assist participants to learn more about the study and explain to researchers what they need and want.

#### Q: What Can I Do?

A supporter who is assisting with supported decision-making can:

- Discuss what actions might help the participant make decisions.
- Explain new things in easier ways for the participant, such as with stories or pictures.
- Work with the participant to think through the good and bad things about each option.
- Talk with the participant about their questions and concerns.
- Help access the participant's health, financial, school, and other information.
   You can do this without a special "ok" (permission) if that is the rule in your state.
- If the participant needs or wants you to, help the participant tell the research team about their questions and decisions. Check
   that the research team understands.

### Thank you



Please note: All quotes in the slide headings were drawn from "We Have Human Rights" A Handbook for People with Developmental Disabilities. From the Harvard Law School Project on Disability. Available at: <a href="https://hpod.law.harvard.edu/pdf/we-have-human-rights.pdf">https://hpod.law.harvard.edu/pdf/we-have-human-rights.pdf</a>







# Closing remarks



Sally Okun
Executive Director,
Clinical Trials Transformation Initiative (CTTI)





# Public Workshop to Enhance Clinical Study Diversity

November 29 - 30, 2023 / 10 a.m. - 2:00 p.m. EST







# Public Workshop to Enhance Clinical Study Diversity

November 29 - 30, 2023 / 10 a.m. - 2:00 p.m. EST







Meeting will begin at 10:00 a.m. EST





# Day 2 Opening remarks



CDR Mathilda Fienkeng

Director, Division of Medical Policy Development

Office of Medical Policy

Center for Drug Evaluation and Research

FDA

# Day 2 - Agenda



- Approaches to support the inclusion of individuals with mental illness
  - Approaches to enhance inclusion in clinical studies
  - Overcoming informed consent barriers
- Study elements that may enhance trial diversity
  - Decentralized studies
     Biomarker selection
  - Digital health tools
- Study analyses

- Clinical endpoints
- Public dissemination of demographic enrollment data
- Community engagement
- Moving forward

### **Post Comments to FDA Public Docket**



FDORA Public Workshop to Enhance Clinical Study Diversity

A docket is open for the public to submit electronic or written comments related to the topics addressed during this workshop.



Link to provide comments to the docket

Docket Number: FDA-2023-N-2462

Comment Period Closes: January 29, 2024





# Session 3C: Approaches to Support the Inclusion and Clinical Study Participation of Individuals with Mental Illness



Moderator:
Paul Appelbaum
Professor of Psychiatry,
Medicine & Law
Columbia University



Patricia Areán
Director, Division of
Services and Intervention
Research, NIMH



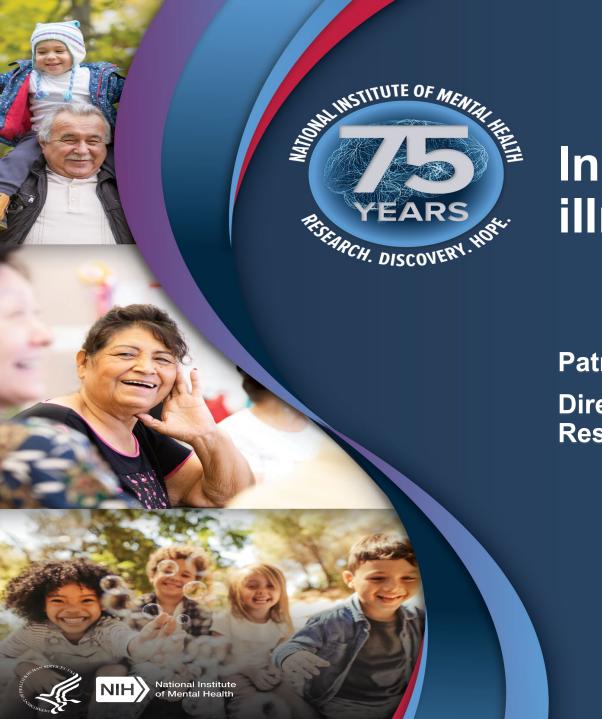
Allissa Torres
Director of Mental Health
Equity, Mental Health
America



Scott Kim
Senior Investigator,
Department of Bioethics,
NIH Clinical Center



Eric Lenze
Professor and Head,
Department of Psychiatry,
Washington University
School of Medicine



# Including people with mental illnesses in clinical trials.

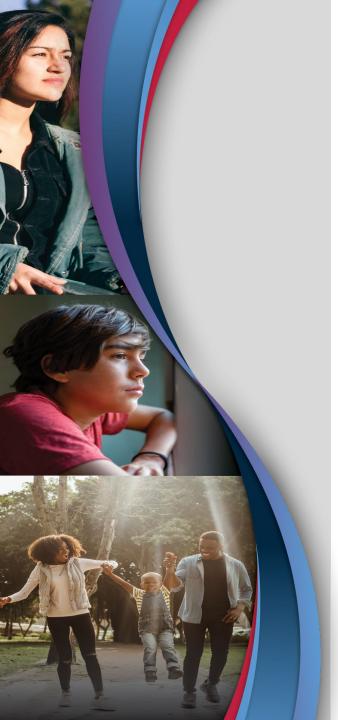
Patricia A. Areán, PhD.

Director, NIMH Division of Services and Interventions Research



# Importance of inclusion

- Rates of mental illness in US adults is ~20%, with 7% suffering from severe mental illness.
- People with diabetes are 2-3 times more likely to suffer from depression than those without diabetes; nearly half of people with bipolar disorder suffer from diabetes. <sup>2-3</sup>
- 8-15% of people with cancer suffer from depression. <sup>3</sup>
- 23% of people with epilepsy suffer from depression and anxiety.
- People with Autism also tend to suffer from many chronic health conditions.

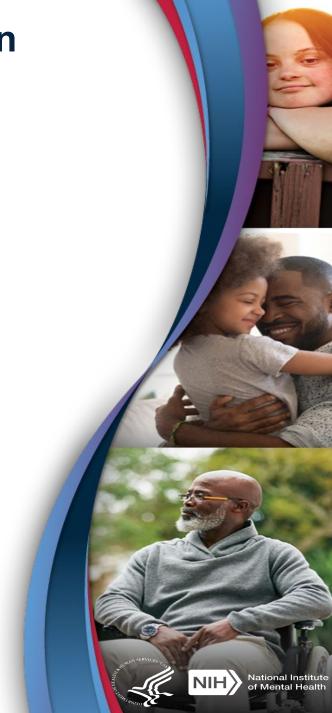


# Impact of mental illness on health.

- People with severe mental illness die 25 years earlier, with leading health cause being heart disease.
- Mild depression increases healthcare cost two-fold, and major depression three-fold, compared to those without depression.
- Mental illness can attenuate the effectiveness of physical health conditions (diabetes, heart disease).

# People with mental health conditions often experience health care disparities and are very often excluded from clinical trials. <sup>7</sup>

- Lack of guidelines for clinicians.
- Limits to generalizability.
- Safety of drugs or devices ignores the risk to those with mental health risks.
- Is an example of discriminatory practice against a large group of people in the US.



## Why do we exclude?

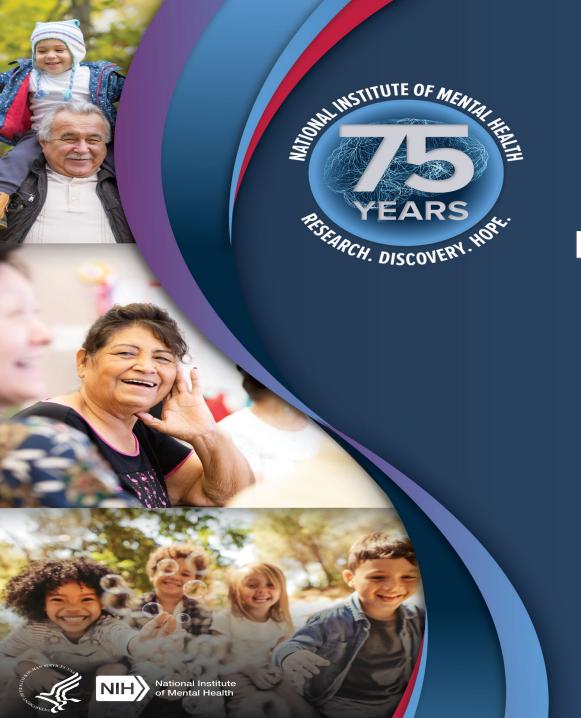
- Assumptions about capacity to consent to research.
- Concerns about retention rates or interrupted participation owing to hospitalization.
- Lack of guidance as to how to measure, monitor and manage psychiatric symptoms in the context of physical health.
- Institutional Review Board variation in whether people with mental illnesses are vulnerable populations.





# **Citations**

- 1. <a href="https://mhanational.org/issues/2022/mental-health-america-adult-data#:~:text=Adult%20Prevalence%20of%20Mental%20Illness%20(AMI)%202022&text=19.86%25%20of%20adults%20are%20experiencing,experiencing%20a%20severe%20mental%20illness."
- 2. <a href="https://www.cdc.gov/diabetes/managing/mental-health.html#:~:text=People%20with%20diabetes%20are%202,often%20gets%20worse%2C%20not%20better">https://www.cdc.gov/diabetes/managing/mental-health.html#:~:text=People%20with%20diabetes%20are%202,often%20gets%20worse%2C%20not%20better</a>.
- 3. Krebber AM, Buffart LM, Kleijn G, Riepma IC, de Bree R, Leemans CR, Becker A, Brug J, van Straten A, Cuijpers P, Verdonck-de Leeuw IM. Prevalence of depression in cancer patients: a meta-analysis of diagnostic interviews and self-report instruments. Psychooncology. 2014 Feb;23(2):121-30. doi: 10.1002/pon.3409. Epub 2013 Sep 16. PMID: 24105788; PMCID: PMC4282549.
- 4. Fiest KM, Dykeman J, Patten SB, et al. Depression in epilepsy: a systematic review and meta-analysis. *Neurology*. 2013;80(6):590-599.
- 5. Viron MJ, Stern TA. The impact of serious mental illness on health and healthcare. Psychosomatics. 2010 Nov-Dec;51(6):458-65. doi: 10.1176/appi.psy.51.6.458. PMID: 21051676.
- Schousboe JT, Vo TN, Kats AM, Langsetmo L, Diem SJ, Taylor BC, Strotmeyer ES, Ensrud KE. Depressive Symptoms and Total Healthcare Costs: Roles of Functional Limitations and Multimorbidity. J Am Geriatr Soc. 2019 Aug;67(8):1596-1603. doi: 10.1111/jgs.15881. Epub 2019 Mar 23. PMID: 30903701; PMCID: PMC6684454.
- 7. Shepherd, V., Wood, F., Griffith, R. *et al.* Protection by exclusion? The (lack of) inclusion of adults who lack capacity to consent to research in clinical trials in the UK. *Trials* 20, 474 (2019). <a href="https://doi.org/10.1186/s13063-019-3603-1">https://doi.org/10.1186/s13063-019-3603-1</a>



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# Session 4: Appropriate Use of Decentralized Studies, Digital Health Tools, and Other Trial Elements to Support the Inclusion of Underrepresented Populations in Clinical Studies



Moderator:
Craig Tendler
Vice President, Oncology
Clinical Development,
Diagnostics, & Global
Medical Affairs Janssen



Craig Lipset
Co-Founder and Co-Chair,
Decentralized Trials and
Research Alliance



Laura Esserman
Professor of Surgery &
Radiology, School of
Medicine, University of
California, San Francisco



Luther T. Clark
Deputy Chief Patient
Officer, Merck



Alanna Morris
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Ivor Horn
Director of Health
Equity and Product
Inclusion, Google

# Appropriate Use of Decentralized Studies to Support the Inclusion of Underrepresented Populations

Craig H Lipset

@craiglipset

30 November 2023









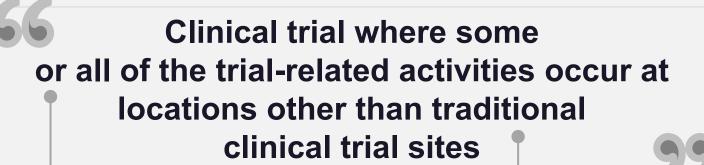






Views expressed do not necessarily represent my current affiliations

### Decentralized Clinical Trials [DCT]: Defined



FDA Draft Guidance: "Decentralized Clinical Trials for Drugs, Biological Products, and 2 Devices " May 2023

- Inclusive of hybrid and fully-remote
- Create optionality and choice

- May be at home
- Or may be pharmacy, community centers, local health providers, pop-up sites, mobile units, etc.

### Decentralized Clinical Trials [DCT]: Defined

Source	Definition
FDA Draft Guidance May 2023	some or all of the trial-related activities occur at locations other than traditional clinical trial sites.
EMA Recommendations December 2022	using procedures conducted outside the traditional 'clinical trial site'.
CTTI	those in which some or all study assessments or visits are conducted at locations other than the investigator site via any or allDCT elements.
DTRA	utilizing technology, processes, and/or services that create the opportunity to reduce or eliminate the need for participants to physically visit a traditional research site.
IMI Trials@Home	make use of digital innovations and other related methods to make them more accessible to participants; by moving clinical trial activities to the participant's home or to other local settings this minimises or eliminates physical visits to a clinical trial centre.

#### Different words / Same themes:

- Umbrella term inclusive of hybrid and fully-remote approaches
- Represents a collection of decentralized methods and tools (both processes and technologies)
- Focus on providing options for participation outside of a traditional "site"

### Reasons to Decentralize Trials



### **Patient Factors**

Experience & Access

Representation & Equity



# **Business Continuity**

Maintaining trials in an unpredictable environment



### **Sustainability**

Support Green Trials and ESG commitments

### Decentralized as a Tool for Diversity Plans



**Rural / Frontier** 

Leverage DCT to manage distance

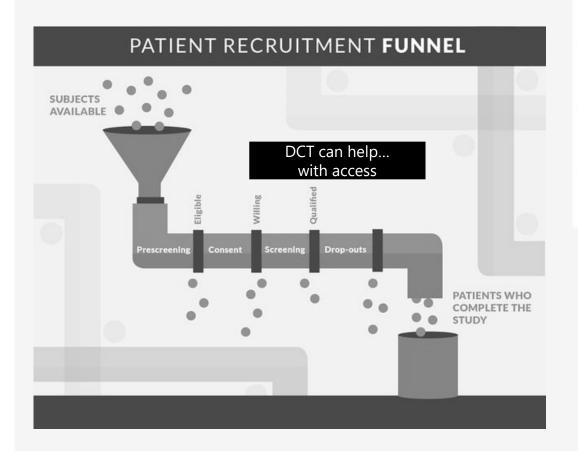


Leverage DCT to address barriers with time & travel



Leverage DCT to support those physically unable to reach a site

### Decentralized Contributes to Access [but may also Unlocks the "HCP"]



### **Investigator Delegation of Activities**



- When permitted by the trial protocol, investigators may delegate trialrelated activities to local HCPs to perform trial-related procedures that require in-person interactions with trial participants
- A critical consideration when delegating trial-related activities to local HCPs is the potential for variability in the approach across different practices
- Videoconferencing and other technologies may be useful to allow investigators to oversee trial personnel performing activities described in the trial protocol at participants' locations

# Documentation: Investigators, Subinvestigators, Local HCPs



- Drug trials (Form 1572)
  - When trial personnel contribute directly and significantly to the trial data, they should be included on Form FDA 1572 as subinvestigators
  - Local HCPs (as defined in the draft guidance) should not be listed on Form FDA 1572 as subinvestigators. However, local HCPs should be included in a task log.
- For device trials, local HCPs are generally not considered investigators and should not be included in the IDE list of investigators. However, these local HCPs should be included in a task log

### More Investigators Can Bring More Diversity, But Does Not Address Equitable Access

Without addressing the barriers to stimulating referrals into research studies,

"More investigators" (diverse investigators in diverse communities) may help research sponsors enroll more diverse patients

But will not address equitable research access for all.

Access will still be based on serendipity.

For equitable access, we need all providers to have pathways to stimulate referrals

And the draft DCT guidance language on a role for HCPs in research is the right start.

### Special Considerations for DCT to Support Diversity

#### Not a silver bullet

DCT supports access, but still require DAP to ensure representative patients are being invited to participate

#### **Digital divide**

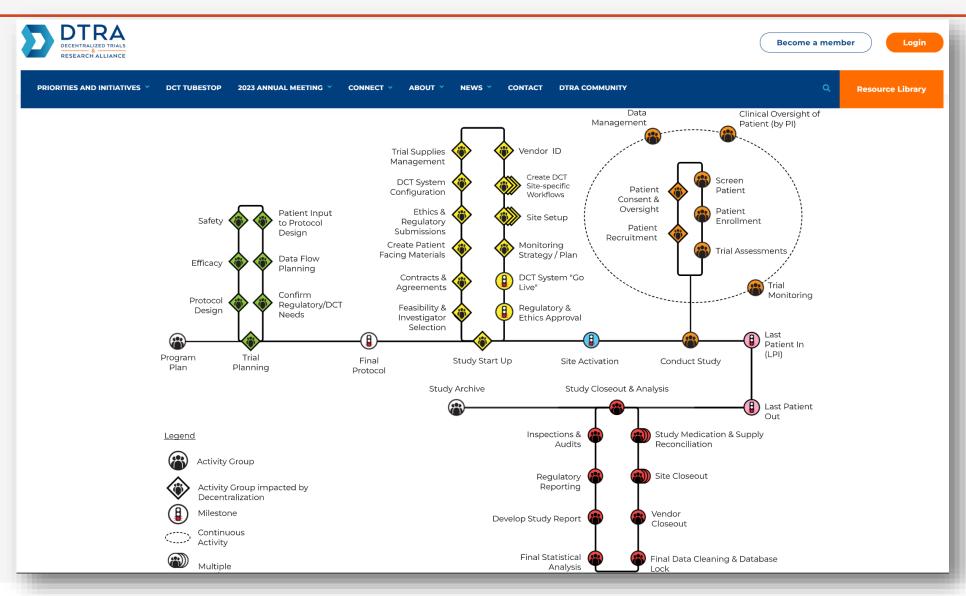
Must ensure participation is feasible for those without technology or bandwidth and help support digital literacy

#### **General considerations**

- Representative patient insights
- Proper investigator oversight
- Appropriate role for HCPs
- Aspire to optionality and choice
- Patients should feel more connected to care and support

### Research Community Resources for DCT at DTRA.org

@craiglipset



## The Wisdom Study

Laura Esserman, MD MBA
on behalf of the WISDOM consortium
Revolutionizing Breast Cancer Screening
to Ensure that tomorrow will be better than today





### A Few Important Things to Know About Screening

- Screening every year vs every other year has gotten politicized
- Finding cancers under 2cm, equally treatable with identical outcomes
  - Stage 1 cancers HR+, molecularly low risk get endocrine therapy
  - Stage 1 cancers that are Her2+, TNBC- less aggressive
- Mortality is not impacted up to 2cm because of improvement in treatments and outcomes





### Where Has Screening Fallen Short?

- 42,370 women still die every year despite screening
- We are not finding the fast growing tumors at earlier stages
  - In the I-SPY TRIAL (stage 2/3 cancers)- the vast majority are NOT screen detected
- We treat stage 0 cancers (DCIS) like stage 1 cancer (likely overtreatment)
- Call back rates are high (especially for women in the 40's)
- We are not using the tools we have to PREVENT breast cancer
  - 276,480 diagnosed in 2021









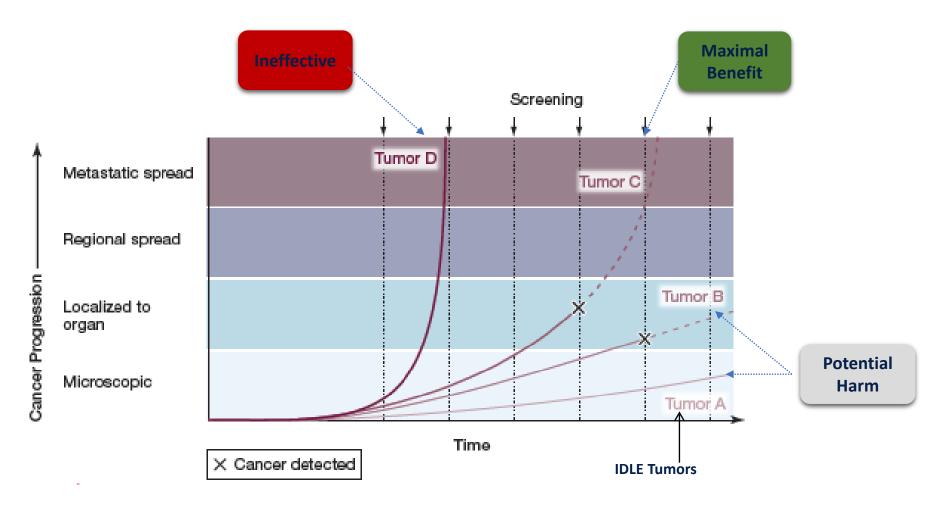






### Breast cancer is not a single disease

Rate of tumor progression explains benefit (lack of) from screening



More for the people who need it, less for those who do not





### What is the solution? Improve our screening algorithm

- ✓ Integrate risk assessment, screening, and prevention
- ✓ Allow women to join regardless of where they get their care
- ✓ Test a strategy where everyone is not screened the same
- ✓ Improve identification of women at risk for fast growing and "interval" cancers (WISDOM 2.0)







### (Women Informed to Screen Depending on Measures of risk)

A study of women aged 40-75 without a history of breast cancer that compares:

- Personalized breast screening
- Standard (annual) screening

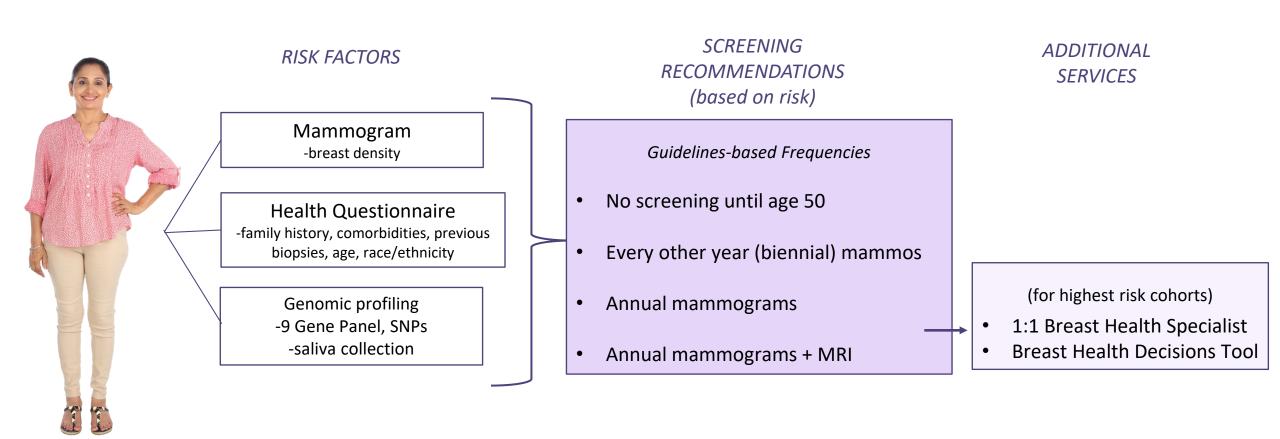
### **Study Questions**

- 1. Safety Is it just as good at avoiding high risk cancers?
- 2. Morbidity Will it reduce biopsies & false positives?
- 3. Prevention Will it encourage prevention in high-risk women?
- 4. Acceptance Is it accepted by women?
- 5. Value Is it better?





### Personalized Screening Group







### WISDOM: Genetic testing

20,000+ women received genetic testing in personalized arm REPORT ~2.5% have a pathogenic mutation LATEST ~67% of mutation carriers do not report first degree family relative with cancer

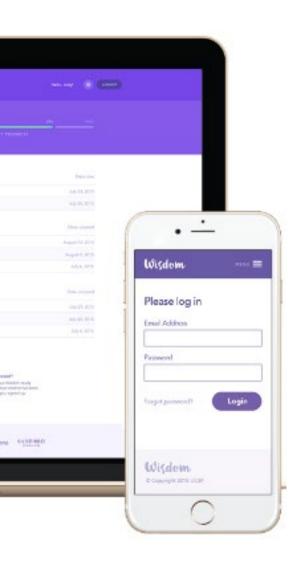
Family history is not the best way to find women who inherit a mutation-

We have a simple test to find these errors- rare but critical and we should look starting at age 30





### How do patients participate?



### Women enroll and participate online

- No requirement to travel to a recruitment center
- Study website <u>wisdomstudy.org</u>
- Mobile, tablets, computers

### All study services are rendered virtually

- Breast Health Specialist available telehealth
- No additional visits

### **Provide information back to participants**

Deliver screening assignments and reports to personal participant account

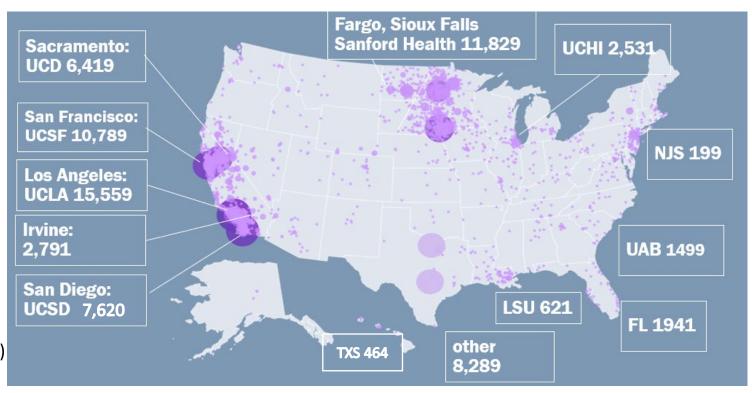
#### **Personal and Confidential**





### Wisdom impact to date

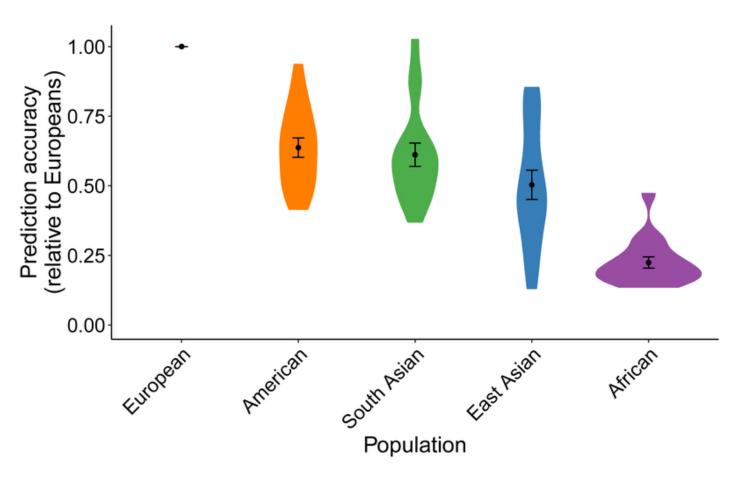
- Over 55k women across the US have joined
- Women from every state in the US
- Over 20,000 learned their genetic risk for breast cancer
- Over 2,000 learned they are at elevated risk and received counseling from us
- We've identified over 500 active cancers in women who didn't know they had it
  - Self report highly accurate (based on registry, EMR)







### Current risk models perform poorly in non-White groups



Decline in performance with increasing genetic divergence from the training population

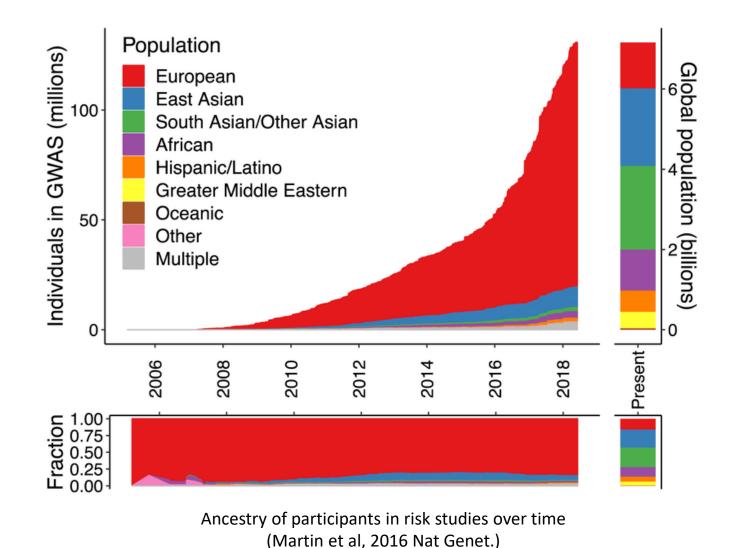
In WISDOM- we have ancestry specific SNPs

Prediction accuracy relative to European ancestry for 17 quantitative traits (Martin et al, 2019 Nat Genet.)





### Low representation of non-White groups



Persons of European ancestry are ~16% of global population but make up 70% of risk studies

- Availability
- Accessibility
- Participation





### Improvements in Racial and Ethnic Diversity

- Significant improvement in representation since 2020
- 1.7% Black/African American participants through 2019; in Q4 2022, WISDOM included over 16% Black/AA participants

Overall study numbers show gradual improvement each quarter and year

Year/Timeframe	White alone, non-Hispanic or Latino	Black or African American alone non-Hispanic or Latino	American Indian and Alaskan Native alone non-Hispanic or Latino	Asian alone, non-Hispanic or Latino	Native Hawaiian and Other Pacific Islander alone, non-Hispanic or Latino	Two or More Race, non-Hispanic or Latino	Hispanic or Latino	Unknown, Prefer not to answer, some other race not listed	Total N
Start-2019	81.4%	1.7%	0.2%	4.5%	0.2%	2.9%	7.9%	1.3%	21,399
2020	74.2%	4.2%	0.3%	6.0%	0.1%	3.4%	10.5%	1.3%	7,725
2021	73.4%	8.1%	0.3%	4.0%	0.1%	0.3%	10.1%	0.8%	10,053
2022	67.1%	11.9%	0.5%	4.6%	0.1%	3.7%	11.5%	0.8%	10,108
Q1 2023	57.9%	18.1%	0.1%	5.6%	0.7%	3.8%	12.2%	1.6%	1,076
All Time	75.3%	5.7%	0.3%	4.7%	0.2%	3.2%	9.5%	1.1%	50,300
US Population	60.1%	13.4%	1.3%	5.9%	0.2%	2.8%	18.5%	n/a	

### Available in English and Spanish

Join now

Login

En Español

### Spanish

- Printed Materials
- All study communications, questionnaires, education for high-risk participants, letters

### Plain-language

 Materials tailored to make sure they are understandable to everyone





# Supporting the Inclusion of Underrepresented Populations in Clinical Studies: Clinical Endpoints & Study Analysis

FDA/CTTI Workshop to Enhance Clinical Study Diversity;
Session Number: 4
Appropriate Use of Decentralized Studies, Digital Health Tools, and Other Trial Elements to Support the Inclusion of Underrepresented Populations in Clinical Studies

Thursday, November 30, 2023; 10:35-11:35 AM EST



Executive Director
Patient Innovation & Engagement
Global Medical and Scientific Affairs
Merck Research Laboratories
Rahway, NJ, USA

### Barriers to Inclusion in Clinical Trials



#### **Critical Barriers**

- Lack of Awareness
- Access
- Mistrust
- Logistical and Resource Constraints

 Shortage of Sites, Networks, and Investigators in Underrepresented Communities

### **Key Stakeholders**

- Patients & Community Members
- Healthcare Providers
- Investigators
- Coordinators, Clinical Sites
- Sponsors

Clark et al. Curr Probl Cardiol 2019: 44:148-172

Bierer B.E., White S.A., Meloney L.G., Ahmed H.R., Strauss D.H., Clark L.T., (2021). Achieving Diversity, Inclusion, and Equity in Clinical Research Guidance Document and Supplementary Toolkit Version 1.2. Available at: https://mrctcenter.org/diversity-in-clinical-trials/





### **Clinical Trial Endpoints**

### **Endpoints**

 Measures designed to test the efficacy and safety of study medications (mortality, disease progression, other clinical events, measures of function, etc.)

### **Patient-Centered Endpoints**

 Outcomes or measures relevant and meaningful to patients, aligned with patient preferences, needs, and priorities (quality of life, knowledge and satisfaction, caregiver burden, etc.)



Clark et al. Curr Probl Cardiol 2019: 44:148-172.

\*Griffiths P, Rofail D, Lehner R, Mastey V. The Patient Matters in the End(point). Adv Ther. 2022;39(11):4847-4852.

Clark L. Increasing Diversity in Medicines Discovery, Development, Access & Utilization: The Critical Role of Community Partnerships and Collaborations". Clinical Leader (October 6, 2020).

Bierer BE, et al. Achieving Diversity, Inclusion, and Equity in Clinical Research Guidance Document and Supplementary Toolkit Version 1.2. Available at: https://mrctcenter.org/diversity-in-clinical-trials/.





### Patient Engagement, Community Partnerships, and Collaborations

#### **Patient-Centered Research and Outcomes**

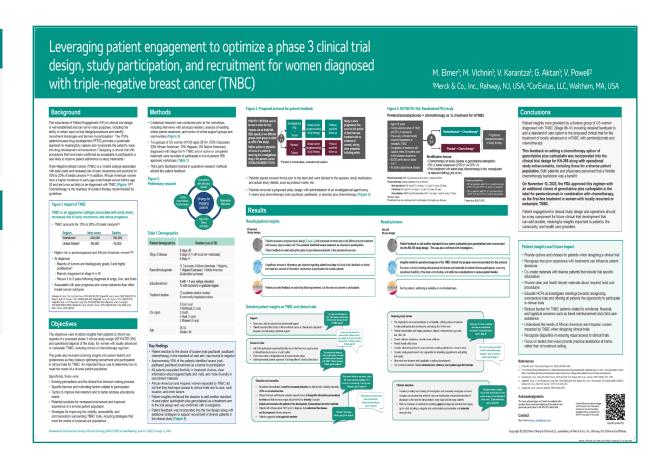
 Patients, caregivers, and patient advocates advising on all aspects of the research, including patient-relevant, patient-centered endpoints and outcomes

#### **Successful Patient/Community Engagement**

- Establishing meaningful partnerships
- Demonstrating mutual benefits
- Collaborating early and often



Patient insights and feedback impacting study design and conduct



Elmer, Mary E; Karantza, Vassiliki; Vichnin, Michelle; Aktan, Gursel; Powell, Valerie J (American Society of Clinical Oncology, 2022-06-01).

Bloom D, et al. The Rules of Engagement: CTTI Recommendations for Successful Collaborations Between Sponsors and Patient Groups Around Clinical Trials. Ther Innov Regul Sci. 2018 Mar;52(2):206-213.

Bierer BE, et al. Achieving Diversity, Inclusion, and Equity in Clinical Research Guidance Document and Supplementary Toolkit Version 1.2. Available at: <a href="https://mrctcenter.org/diversity-in-clinical-trials/">https://mrctcenter.org/diversity-in-clinical-trials/</a>. Collins SP, et al. Incorporating Patient and Caregiver Experiences Into Cardiovascular Clinical Trial Design. JAMA Cardiol. 2017:1263-1269.





### Enhancing Clinical Trial Relevance, Value, and Equity for Underrepresented Populations

#### **Study Relevance and Value**

- Results relevant to and understood by participants and communities
- Consistency of treatment benefits and/or risk differences
- Participant experience and feedback to improve design of future trials

"Underrepresented groups acutely feel the disconnect between trial efficacy and real-world effectiveness both because they do not see themselves in trials and because under-representation can affect trial results" "...enrolling a diverse population provides the best opportunity for an informed analysis of important subgroups, illuminating potential signals of disproportionate benefit or risk..."

#### **Study Attrition: Indicator of Social Vulnerability**

- Representative clinical trials includes recruitment, enrollment and equity in trial completion
- Differential attrition of participants can lead to bias and limit generalizability of results
- Participant attrition may be associated with financial resource strain and/or other vulnerability indicators, independent of race or gender
- Understanding differential attrition may help advance patient care, outcomes and equity

Shah SJ, Essien UR. Equitable Representation in Clinical Trials: Looking Beyond Table 1. Circ Cardiovasc Qual Outcomes. 2022 May;15(5).

Bierer B.E., White S.A., Meloney L.G., Ahmed H.R., Strauss D.H., Clark L.T., (2021). Achieving Diversity, Inclusion, and Equity in Clinical Research Guidance Document and Supplementary Toolkit Version 1.2. Cambridge and Boston, MA: Multi-Regional Clinical Trials Center of Brigham and Women's Hospital and Harvard (MRCT Center). Available at: <a href="https://mrctcenter.org/diversity-in-clinical-trials/">https://mrctcenter.org/diversity-in-clinical-trials/</a>.

Collins SP, Levy PD, Holl JL, Butler J, Khan Y, Israel TL, Fonarow GC, Alikhaani J, Sarno E, Cook A, Yancy CW. Incorporating Patient and Caregiver Experiences Into Cardiovascular Clinical Trial Design. JAMA Cardiol. 2017 Nov 1;2(11):1263-1269. doi: 10.1001/jamacardio.2017.3606. PMID: 29049526. Relationship Between Social Vulnerability Indicators and Trial Participant Attrition: Findings From the HYVALUE Trial

Kamal H. Henderson, MD, MSc, Laura J. Helmkamp, MS, John F. Steiner, MD, MPH, Edward P. Havranek, MD, Suma X. Vupputuri, PhD, Rebecca Hanratty, MD, Irene V. Blair, PhD, Julie A. Maertens, PhD, Miriam Dickinson, PhD, Stacie L. Daugherty, MD, MSPH National Academies of Sciences, Engineering, and Medicine. 2022. Envisioning a Transformed Clinical Trials Enterprise for 2030: Proceedings of a Workshop. Washington, DC: The National Academies Press. https://doi.org/10.17226/26349.





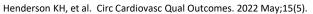
### Equitable Clinical Trial Representation Beyond Recruiting and Enrollment: Gateway to Innovative Therapies



### Advancing science, health care solutions, health outcomes, confidence in trial results and equity

Schwartz AL, et al. Why Diverse Clinical Trial Participation Matters. N Engl J Med 2023; 388:1252-1254.

Bierer BE, et al., Achieving Diversity, Inclusion, and Equity in Clinical Research Guidance Document and Supplementary Toolkit Version 1.2. Available at: <a href="https://mrctcenter.org/diversity-in-clinical-trials/">https://mrctcenter.org/diversity-in-clinical-trials/</a> Collins SP et al. JAMA Cardiol. 2017;2(11):1263-1269.









### Achieving Increased Clinical Trial Inclusion and Participation



#### **Patient-Centered**

- Patient and community awareness, education, training, partnerships and collaborations
- Achieving optimal outcomes with minimal added burden to patients
- Meaningful, ongoing patient engagement
- Earning and building trust and trustworthiness



### **Inclusive Study Design and Conduct**

 Meaningful, relevant, measurable & equitable endpoints and outcomes for patients and communities



#### Sustainability

- Demonstration of benefits, implications and relevance of study findings for impacted individuals and communities
- Equitable representation beyond recruiting and enrollment
- Recognition and addressing social determinants of health (SDOH) and vulnerability indicators





### Thank you





### Session 5A: Post-Approval Dissemination of Clinical Study Enrollment Demographic Data to Public



Moderator:
James Hildreth
President and CEO,
Meharry Medical College



Paula Boyles
External Clinical Trial
Data Sharing
Program Lead, Pfizer



Cynthia Chauhan
Patient
Representative/Advocate,
Independent



**Tarek Hammad**VP, Head of Medical
Safety, Marketed Products,
GPSE, Takeda
Pharmaceutical Company



Barbara Bierer
Professor of Medicine,
Center for Bioethics,
Harvard Medical School

### FDA / CTTI Workshop to Enhance Clinical Study Diversity

Post-Approval Dissemination of Clinical Study Enrollment Demographic Data to the Public

Presented by Paula Boyles





### Health information equity helps improve patient outcomes

Health information equity is the sharing of information in a way that is accessible and understandable to all people, allowing everyone to reach their full potential for health.<sup>1</sup>



Studies show that **low health literacy** (the degree to which individuals can understand and use information to inform health-related decisions)<sup>2</sup> can **increase mortality rates**.<sup>3-5</sup>



People with the knowledge needed to become actively engaged in their health care have better outcomes, according to research. <sup>6</sup>



To achieve better health outcomes, we must produce patient-facing content that is easy to read, understand and act on. 7

<sup>1</sup>Berkman https://doi.org/10.1002/aris.1440370112

Information Equity - Introduction to design Equity (umn.edu)

Health equity Leadership & Exchange Network, 2020

<sup>2</sup>What Is Health Literacy? | Health Literacy | CDC

<sup>3</sup>Berkman ND, Sheridan SL, Donahue KE, et al. low health literacy and health outcomes: an updated systematic review. *Ann Intern Med.* 2011;155(2):97-107. doi: 10.7326/0003-4819-155-2-201107190-00005

<sup>4</sup>Mitchell SE, Sadikova E, Jack BW, Paasche-Orlow MK. Health literacy and 30-day post discharge hospital utilization. *J Health Commun.* 2012;17(suppl 3):325-338. doi: 10.1080/10810730.2012.715233

<sup>5</sup>Bostock S, Steptoe A. Association between low functional Health health literacy and mortality in older adults: longitudinal cohort study. BMJ. 2012;344; e1602. doi:10.1136/bmj.e1602

<sup>6</sup>CDC: Patient Engagement | Health Literacy | CDC

<sup>7</sup>Shoemaker SJ, Wolf MS, Brach C. Development of the Patient Education Materials Assessment Tool (PEMAT): a new measure of understandability and actionability for print and audiovisual patient information. Patient Educ Couns. 2014;96(3):395-403. doi: 10.1016/j.pec.2014.05.027





### The Pfizer Clinical Trials Ecosystem delivers a World Class consumer experience for Participants

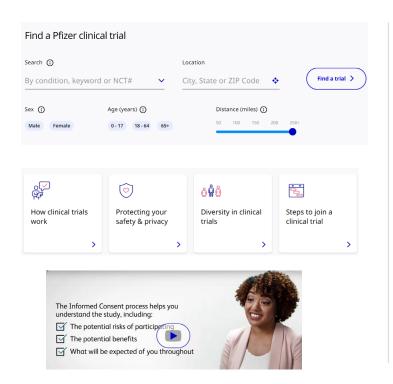
#### **Information Seekers**

**Awareness** 

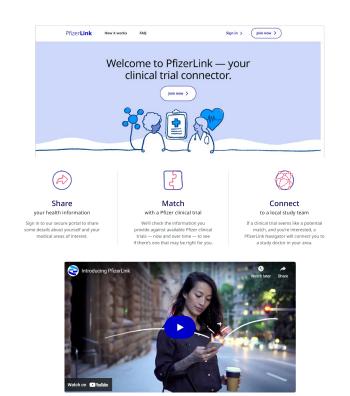
→ Education

→ Action

#### PfizerClinicalTrials.com



#### PfizerLink.com



#### **Former Participants**

→ Get back

#### PfizerClinicalTrialAlumni.com

For past clinical trial participants

Your time meant the world. And it could change the world, too.



Accessing Pfizer's clinical trial results



Pfizer will provide your study doctor with information about your clinical trial's results when all participants have completed the trial. We also post study results on ClinicalTrials.gov and summaries of the results (also called Clinical Study Report Synopses) on Pfizer.com.

Additionally, for certain Pfizer-sponsored clinical trials, "Plain Language Study Results Summaries" can be found by visiting this page on Pfizer.com and using the search function. These are non-technical descriptions of the design and results of our studies started in 2015 and later. The summaries are intended to make the study results more understandable and accessible to a general audience.

When a study's plain language study results summary becomes available in the future, past participants in Pfizer clinical trials who registered for the Pfizer Link website will receive a notification and links to their study's plain language summary.

Share your story about being in a Pfizer clinical trial





### Pfizer is committed to Health Equity via Participant Data Return



Fulfill our social contract with participants by enabling response to any data requests and allowing patients to opt-in to data return



Empower participants with data based upon accepted health literacy principles to make more informed healthcare decisions by providing necessary context to their clinical trial data, and facilitate continued care beyond trial



Maintain engagement with participants to improve trial experience, and in turn optimize trial adherence and retention

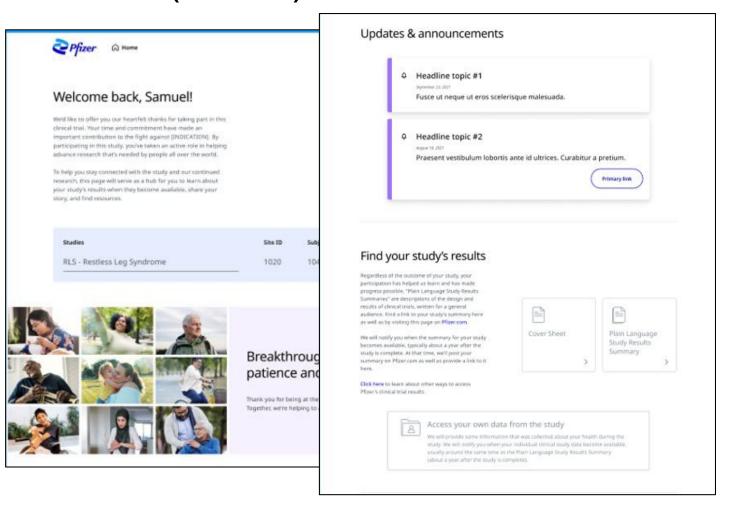
Clinical Trial Participants have demanded the ability to Access, Visualize, and Share their data, and Clinical Researchers have a responsibility to provide more Transparency and Engagement with participants



### Pfizer Clinical Trial Alumni Site (PCTA)

PfizerClinicalTrialAlumni.com is an opt-in portal that helps Pfizer clinical trial participants find information, resources, and data related to their current or prior study.

PCTA allows participants to feel connected to Pfizer and their trial, well after their study has completed.





# TransCelerate's Individual Participant Data Return (iPDR) initiative is developing solutions to support flexible processes for the planned, intentional, and meaningful return of pre-defined individual data to participants who choose to receive it

### Participant Data Return Resource Pack [PUBLICLY AVAILABLE]

A document that provides access to a consolidated set of resources from across the clinical research ecosystem that can assist with returning individual data globally.



### Individual Participant Data Return Package [COMING SOON]

#### **Considerations Guide**

Provides considerations for implementing the return of individual data

### **Template**

Provides a customizable template example of how a study team might capture important operational details for enabling individual data return at a study or program level

#### **Socialization Presentation**

A presentation to educate key internal stakeholders of the potential value of returning participant data in clinical studies and to obtain support to operationalize within sponsor organization



### Conclusion



**Common efforts** across industry



Solutions are **NOT** "one size fits all"



Ensure we reach ALL populations globally







### Session 5B: Community Engagement



Moderator:
Tesheia Johnson
Deputy Director
and COO, Yale Center
for Clinical Investigation



Ileana Pina
Professor of Medicine,
Thomas Jefferson
University



B. Angeloe Burch, Sr. African American Community Collaborative, Inc.



Reed Tuckson Managing Director, Tuckson Health Connections, LLC



Perla Nunes Perla Nunes, Consulting



Billy
Caceres
Assistant Professor,
Columbia University
School of Medicine



Kali Zhou
Assistant Professor
of Clinical Medicine,
Keck School of
Medicine, University
of Southern California

# **Enhance Clinical Study Diversity The Role of Community**

- The Definition of Community
  - Geographical
  - Racial
  - Ethnicity
  - Sex
  - Age

Whose responsibility to enroll or support diversity in clinical trials.

Need to bring the patients into the clinic environment prior to enrollment in clinical trials.

Pts in clinic make the best participants in RCT's

Who to train?







### Session 6: Moving Forward



Moderator:
Nakela Cook
Executive Director,
Patient-Centered Outcomes
Research Institute



Peter Marks
Director, Center for
Biologics Evaluation and
Research, FDA



**Jeff Shuren**Director, Center for Devices and Radiological Health, FDA



Peter Stein
Director, Office of New
Drugs, Center for Drug
Evaluation and Research,
FDA



Marc Theoret
Deputy Director, Oncology
Center for Excellence,
FDA



Meghan McKenzie
Patient Inclusion and
Health Equity,
Chief Diversity Office,
Genentech





### Day 2 Closing Remarks



Karen Hicks
Deputy Director, Office of Medical Policy
Center for Drug Evaluation and Research
FDA



### Public Workshop to Enhance Clinical Study Diversity

### CLOSING REMARKS Day 2

Karen A. Hicks, M.D., FACC

Deputy Director, Office of Medical Policy Center for Drug Evaluation and Research Food and Drug Administration

November 30, 2023

### FDA has a longstanding commitment to promote diversity in clinical trials



- Let's not wait for Congress to pass additional legislation to move the needle
- Responsive guidelines that are informed by the community
- Engagement and communication
  - Sharing ideas
  - Sharing experiences
  - Sharing best practices
- Implementation of innovative approaches
  - "What got us here won't get us there"

### **Patients First**



- Acknowledge earned mistrust and establish trust
- Address the fear
- Invite patients to participate
- Simplify informed consent
- "Treat others the way YOU want to be treated"
- Create clinical trial environments that reflect love and care
  - Warm blankets
  - Patient concierges (travel and transportation reimbursement, coordinate appointments, more)
- Eliminate the enrollment gaps
  - Remuneration
  - Other strategies
- Meet patients where they are
- Shift paradigm from protecting patients from research to protecting patients through research
- Include patients and trial participants as trusted partners in research

### **Understand the Demographics and the Reasons**



- All approached patients
  - Those not enrolled in the trial
    - Screen Failures
      - "Physician Discretion"
      - Scientific basis for exclusion/safety concern
    - Eligible patients that do not sign the informed consent
  - Those enrolled in the trial
    - Patients that discontinue from the trial or withdraw consent for participation

### **Monitor Enrollment Diversity throughout Trial Conduct**



- Sponsors
  - Diversity Dashboards
- Data Monitoring Committees





- FDA
- Industry
- Academic Institutions
- Institutional Review Boards
- Clinical Investigators
- Trial personnel
- Clinicians
- Participants
- Patient Advocacy Groups
- Health care systems
- Other members of the diversity community

**Training and Education are Critical** 

### FDA is committed to enhancing diversity in clinical trials



### Our policies:

- Focus on the diversity of the population that will use the medical product, if approved
- Support a pragmatic approach
- Encourage the use of clinical trial designs that minimize complexity and reduce burden
- Leverage innovative "fit for purpose" technology
- Incorporate learnings from innovative trial designs and lessons learned from public health emergencies
- Promote **fit-for-purpose** approaches as well as innovations in design and technologies
- Encourage better informed consent process
- Facilitate the utilization of available **healthcare infrastructure**, processes, and workforce

### To Achieve Meaningful Representation in Clinical Trials



### It Takes a Village!

### **Post Comments to FDA Public Docket**



FDORA Public Workshop to Enhance Clinical Study Diversity

A docket is open for the public to submit electronic or written comments related to the topics addressed during this workshop.



Link to provide comments to the docket

**Docket Number:** FDA-2023-N-2462

Comment Period Closes: January 29, 2024

