

Advancing Health Equity Through Clinical Trial Diversity & Inclusive Research: The Integral Role of Pharmacists Camille Pope, PharmD, RPh Chief Medical Lead, Acclinate

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#### **Learning Objectives**

- $\ensuremath{\textbf{REVIEW}}$  key terms related to clinical trial diversity, inclusive research, and health
- **DESCRIBE** current FDA guidance and legal requirements related to improving participation of historically underrepresented racial and ethnic groups in clinical
- $\begin{tabular}{ll} \textbf{OUTLINE} trust-based frameworks for optimizing clinical trial diversity and outreach to historically underrepresented communities \end{tabular}$
- **RECOGNIZE** the role of pharmacists in advancing clinical trial diversity efforts, based on various practice settings: community, health system, industry

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Disclosure

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# Key Terms<sup>1,2</sup>

### **Diversity**

Anything that sets one apart from another, including the full spectrum of human demographic differences as well as different ideas. backgrounds, and opinions

# Inclusion

Implies a cultural and environmental feeling of belonging and sense of uniqueness; represents the extent to which one feels valued, encouraged to fully participate

Fair treatment for

all, while striving to

identify and eliminate inequities

and barriers

and just opportunity to be as healthy as possible; requires removing obstacles such as poverty, discrimination, and their consequences, and eliminating health disparities and determinants that adversely affect excluded or marginalized groups

**Health Equity** Everyone has a fair

# Why Is Applying A "Health Equity Lens" to Clinical Trials Important?<sup>3,4</sup>

- It's the right thing to do for patients!
- Addresses key health disparities in historically underrepresented groups
   Improves access to life-prolonging medicines

I, Camille Pope, PharmD, RPh, am an employee at Acclinate, Inc

 Representation in clinical trials should be reflective of real-world patient populations who actually use the drugs

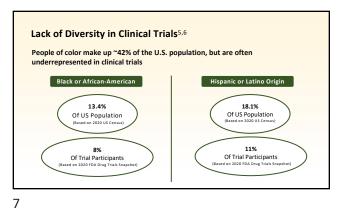
Furthers understanding of how medicines work and answers scientific questions

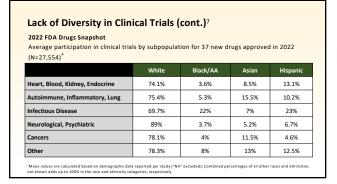
E.g., there may be differences in drug efficacy/safety based on biology and genetic make-up

Impacts timing of FDA approvals, availability of drugs, overall clinical development and business strategies

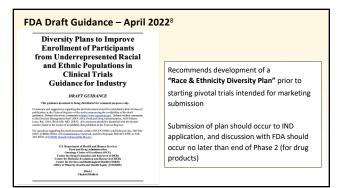
• E.g., potential for delayed/denied FDA drug approvals, based on lack of diversity in trials

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FDA Draft Guidance - April 2022 (cont.)8 Diversity Plans to Improve Recommended Components of Diversity Plan: Enrollment of Participants from Underrepresented Racial and Ethnic Populations in Clinical Trials Overview of disease in underrepresented racial/ethnic populations in the US, including any differential data/findings **Guidance for Industry** Scope of development program, including expected DRAFT GUIDANCE geographic locations that may address inclusion Goals for enrolling underrepresented populations, based on demographics and background research Specific plan to enroll diverse populations -detailed operational measures, including sustained community engagement plan and metrics Status of efforts, including plan for post-marketing data collection if initial diversity goals not met [Date] Clinical/Medica

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# Food and Drug Omnibus Reform Act (FDORA) – December 2022 Sections 3601-3604 $^{\rm 9,10}$

Includes laws related to clinical trial diversity, modernization, and diversity action plans. Calls on FDA to:

- Require submission of diversity action plans for all Phase 3 clinical studies of new drugs or pivotal trials, as appropriate
- Update current diversity plan guidance by Dec 2023, with considerations for sponsors to incorporate data disaggregated by age group, sex, racial/ethnic demographic characteristics, and potentially geographic location and socioeconomic status
- Update current guidance to include considerations for public posting by sponsors of key information from diversity action plans on company websites, with regular reports to FDA reaarding progress
- Host public workshops to enhance clinical trial diversity
- Issue an annual summary report on progress to improve clinical trial diversity

### What is Trust?11

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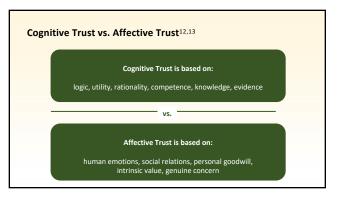
Willingness of a party to be vulnerable to the actions of another party

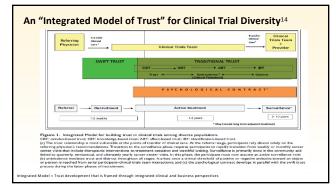
 Expectation that the other will perform an action important to the trustor, regardless of ability to monitor or control that other party

Applies to clinical trial recruitment and retention, as there is inherent risk when deciding whether to participate

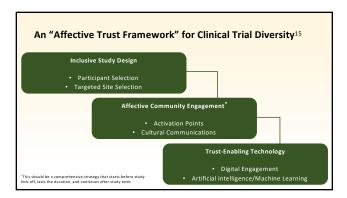


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Pharmacists: Bridging the "Trust Gap" 16,17

In 2022, pharmacists were ranked as the 3<sup>rd</sup> most trusted professionals in the US

Americans' Ethica Ratings of Medical Professionals in U.S.

Please tell me how you would rate the honesty and attical standards of people in thuse different fields—very high, high. everage, fow or very town?

16. Very high/High.

Nations—Medical doctors—Fhormacists

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GALLLIP

Pharmacists are ideal partners for building trust within historically excluded populations, connecting patients to research opportunities, and conducting clinical trials

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Advantages to Involving Community Pharmacists in the Clinical Trial Process & Diversity Efforts 17-19

Access to patients and patient information

Convenient locations (within 5-10 miles of most US households) and regular contact with patients

Can raise awareness of clinical trials, share study information, and identify potential participants

Real-world evidence from pharmacy databases can inform more inclusive study protocol designs

Knowledge of the community

Well-respected members of the community

Understand the health needs and concerns of communities in which they live, serve, and work -- including social determinants of health (SDOH) that impact their patients

Can develop and implement study recruitment strategies tailored to community needs

Advantages to Involving Community Pharmacists in the Clinical Trial Process & Diversity Efforts (cont.)17-19

Facilitating communication

Serve as a bridge or connector between research sponsors, principal investigators, study sites and community members

Can provide culturally- and community-tailored information about research opportunities

Providing care

Provide care to patients throughout study duration, including administration of medications and follow-up (i.e., in-person and/or leveraging virtual care models)

#### Community Pharmacies & Decentralized Clinical Trials 19-21,26

#### Decentralized Clinical Trial (DCT)\*

A clinical trial where some or all trial-related activities occur at locations other than a traditional clinical trial site

- Locations "other than a traditional trial site" may be a participant's home or a local healthcare facility
- May be fully decentralized or hybrid
- May leverage in-person and/or telehealth capabilities, and digital health technologies

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### Community Pharmacies & Decentralized Clinical Trials (cont.) 19-21,26

- Depending on study protocol, some activities may be conducted by healthcare providers (HCPs) close to the participant's home but not part of the trial personnel, as long as it aligns with HCP's clinical training. Conversely, some trial-related activities may require specifically trained trial staff
- In a recent consumer panel survey conducted by a national pharmacy retail
  - 32% of respondents said "ability to participate in a trial through my local pharmacy" would make it easier to be in a study
  - 56% of respondents said they've be willing to participate in a trial through a national pharmacy retail chain

# **Proposed Steps for Improving Clinical Trial Diversity** through Community/Retail Pharmacists18



- $1) \ \ Identify pharmacies within locations/communities that have been historically underrepresented and excluded$
- 1) Identify potential participants that match study protocol requirements
  - i.e., use of Al-enabled technology to assess de-identified pharmacy prescription databases to find patients
- 2) Initiate patient contact to determine interest in clinical trials
- Perform initial inclusion/exclusion criteria assessment
   e.g., administration of an IRB-approved questionnaire in-person or via telehealth
- 1) Refer patients meeting the criteria to the principal investigator for further screening
- 1) Monitor enrollment of historically underrepresented patients and adjust approach, as needed

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### **Challenges for Clinical Trial Programs at** Community/Retail Pharmacies 19,20,22

- Clinical trial oversight, data quality, and data privacy concerns could compromise integrity of study results
- Potential conflicts of interest, particularly with retail chains that have a financial stake in revenue generation (i.e., they are publicly held entities and may compromise patient safety or data quality for financial gain)
- · Operational hurdles --- limited infrastructure and staffing to support trials
- Barriers to participation that cannot be addressed by the pharmacist (e.g., inconveniences stemming from poor protocol design, a sponsor's responsibility)
- Business challenges related to venturing into a new market area
- At least 4 national pharmacy retail chains have created clinical trial units since 2021. However, one major chain recently confirmed closure of its unit by 2024, due to reassessment/realignment of "long-term strategic business priorities".

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# Health-Systems Pharmacists (Research-Focused\*)23,24

- An essential member of the research team, in a role that goes beyond traditional dispensing of medications Several opportunities exist for impacting clinical trial diversity within role
- Assists in background medication research on the study drug, including literature searches
- May write pharmacy section of study protocol (e.g., drug inventory, compounding, dispensing, record-keeping procedures)
  May write other protocol sections involving pharmacology, PK, drug exclusion criteria,
- adverse effects, and adherence monitoring
- May serve as a member of the institutional review board (IRB)

Health-Systems Pharmacists (Research-Focused\*) - cont. 23,24

- · Performs standard pharmacist tasks upon receipt of drug order for study medication from principal investigator
- Documents all processes and leads distribution of study drug including delivery to study location or patients' homes
- May meet face-to-face with patients during trial and afterward during transition-of-care
- May collaborate with principal investigator on organization, analysis, and write-up of data related to study drug



# Industry Pharmacists & Clinical Trial Diversity<sup>25,26</sup> diversity across various functions Clinical Develonment Study protocol development (including determination of population to be studied, diversity goals, and eligibility criteria) Selection of diverse principal investigators and advisory board participants Ensure proper data collection and interpretation Publish clinical study reports and manuscripts --- can ensure transparency of diversity data to external entities Clinical Operations - Diverse trial site and CRO selection/management (inclusive of training and monitoring)

Other Clin Op responsibilities may include: site activation, screening and recruitment, study timeline

nanagement, study tracking regulatory/audit readiness

Industry Pharmacists & Clinical Trial Diversity (cont.)25,26

#### Regulatory Affairs

Co-develop the clinical development and regulatory approval strategies/plans for trial diversity and communicate them to the FDA

- Medical Affairs (Including Field Medical)
  Recommend new trial sites in racially/ethnically diverse geographic areas
- Identify up-and-coming racially/ethnically diverse key opinion leaders and investigators
   Regularly amplify reminders to sites re: importance of recruiting racially/ethnically diverse patients from their communities
- Bring insights re: opportunities and challenges with disease/trial education and diverse recruitment back to the clinical study team

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Industry Pharmacists & Clinical Trial Diversity (cont.)25,26

Facilitate connections with patient advocacy groups who focus on racially/ethnically diverse patients and complement community engagement efforts

## Commercial/Marketing

- Enterprise business thinking --- leverage overall understanding of the business impact of reaching (or not reaching) trial diversity goals
- Conduct market research of real world-patient demographics by race, ethnicity and other subgroups (i.e., characterization of the "patient universe" or "patient funnel")

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Thank You!