

Diversifying Clinical Trials: A Path Forward

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Sinai**
Fuster
Heart Hospital

Disclosures

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|--|---|
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| Honorarium: | JAMA Cardiology (Associate Editor), ACC (BOT Member, SC Member CTR Program) |

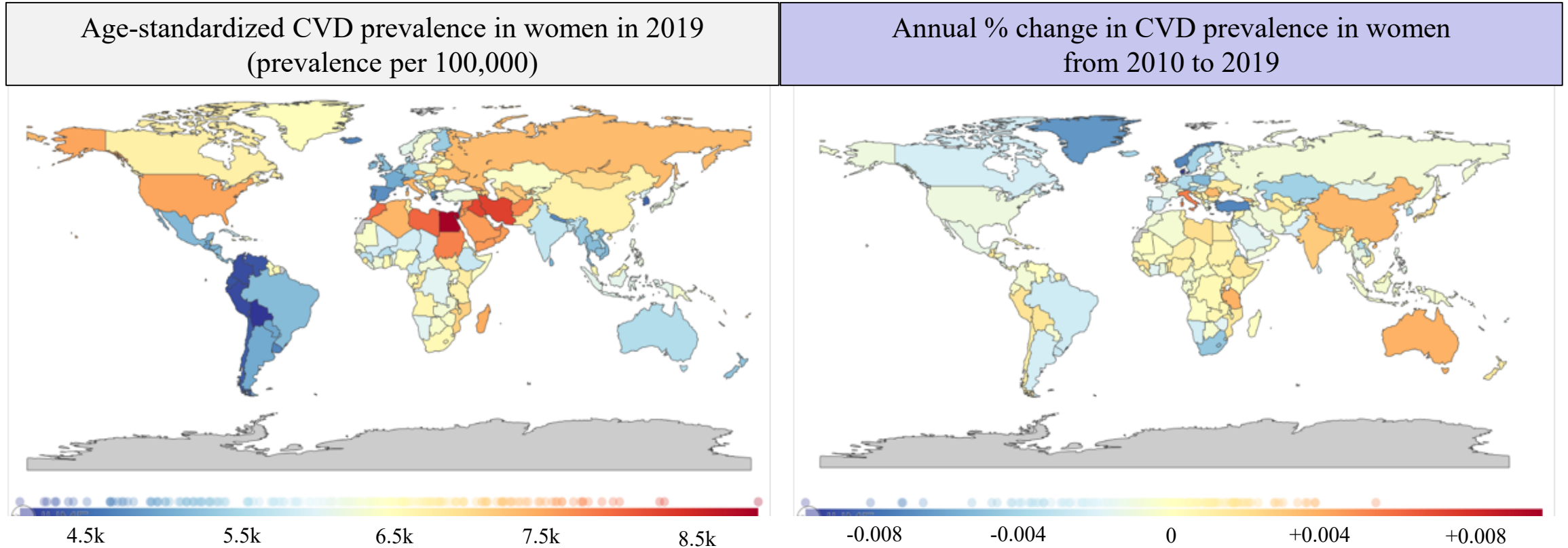
Gender disparities in CV health

Women's Cardiovascular Health:

Extent of the Problem?

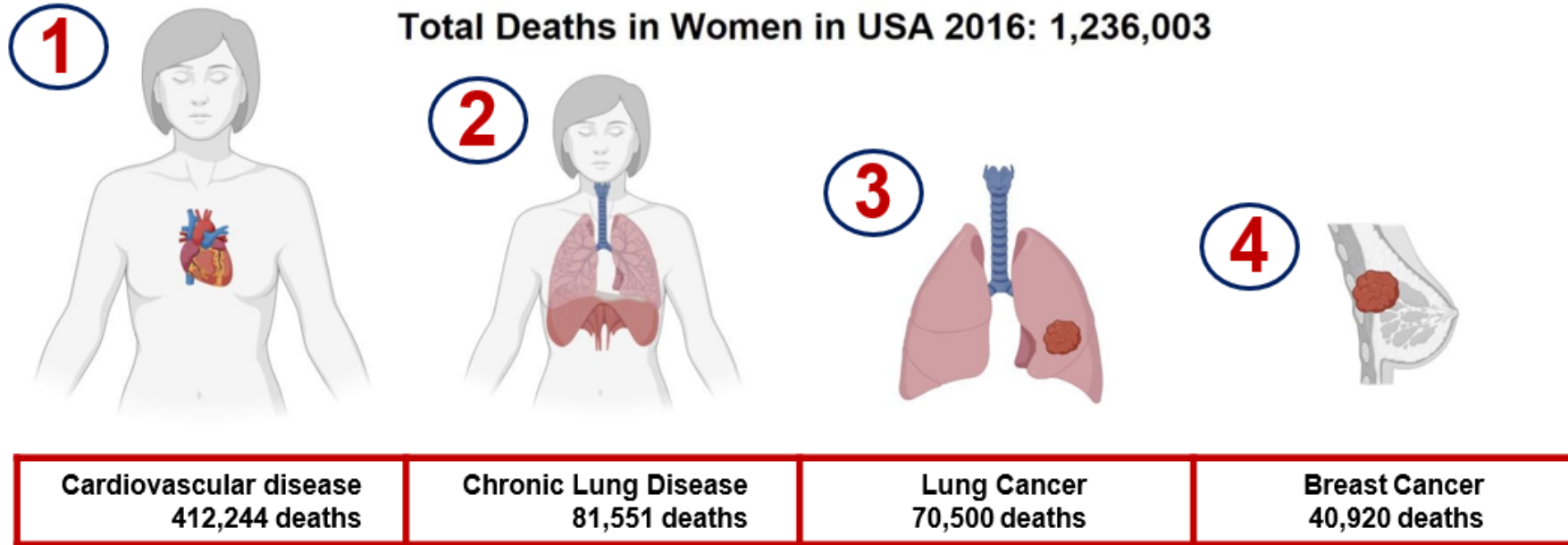


Prevalence of Cardiovascular Diseases in Women



**Globally CVD prevalence decreased between 1990 and 2010,
but it slightly increased since 2010**

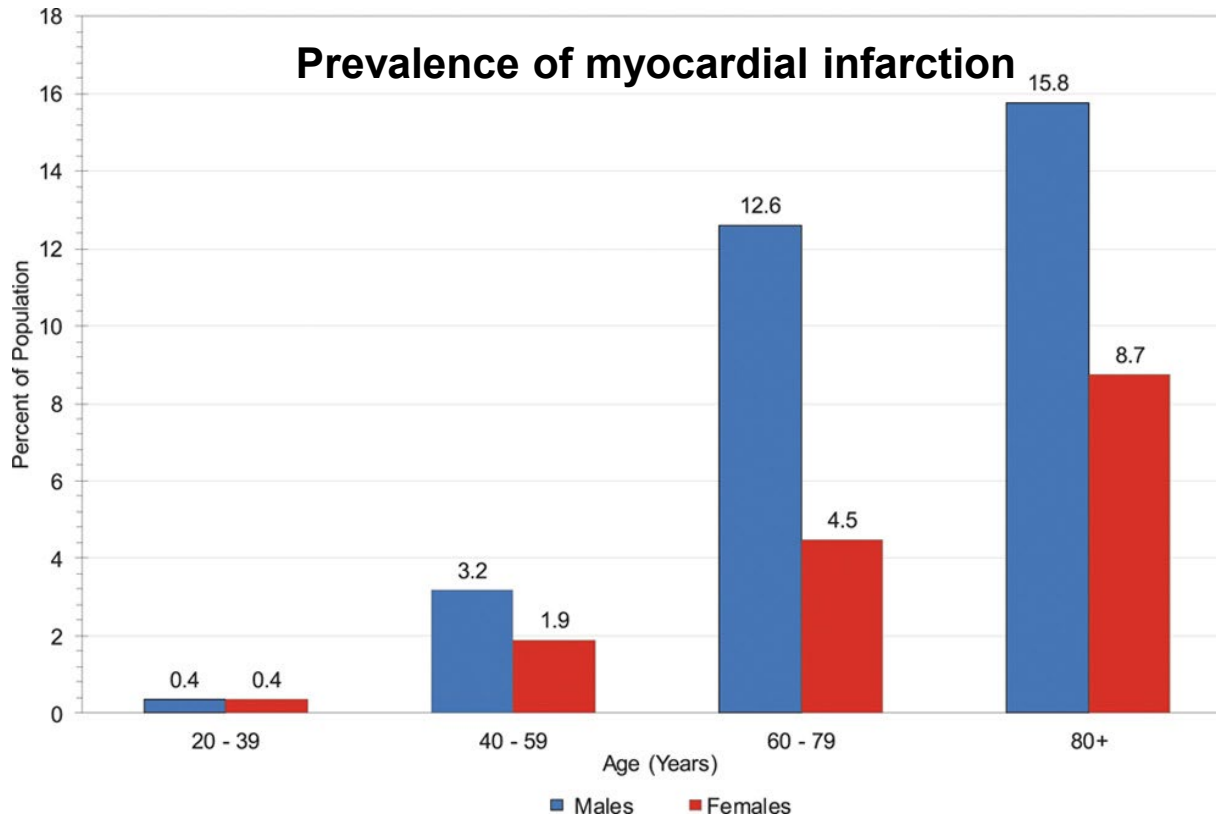
CVD is the Leading Cause of Mortality in Women



With regard to cardiovascular disease subtypes, **ischemic heart disease is the most common cause of cardiovascular death in women globally**

Prevalence of Acute Myocardial Infarction

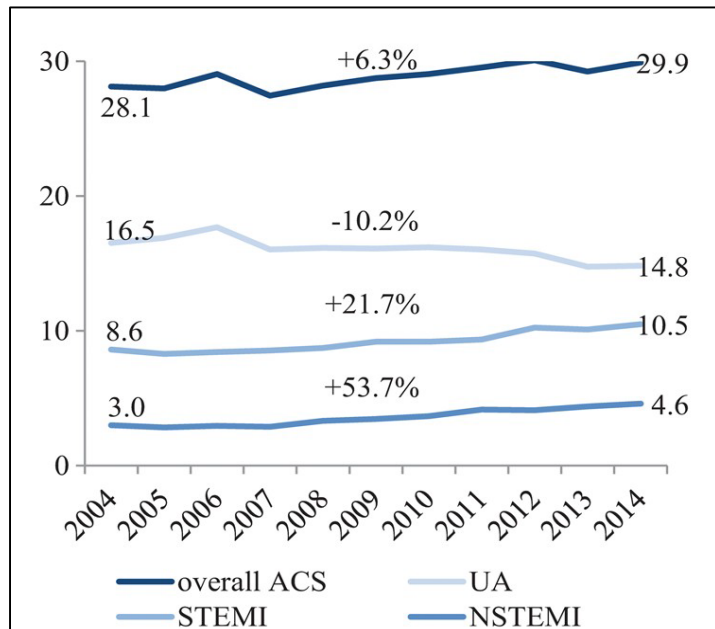
Heart Disease and Stroke Statistics—2021 Update (Report from AHA)



- The median survival time after a first MI is as follows: **at ≥ 45 years of age, 8.2 for males and 5.5 years for females.**
- Of those who have a first MI, the percentage with a recurrent MI or fatal CHD within 5 years is as follows: **at ≥ 45 years of age, 17% of males and 21% of females.**

There is an Increase in Myocardial Infarction in Young Women

French women <65 years of age



Hospital admissions with acute coronary syndrome in women younger than 55 years

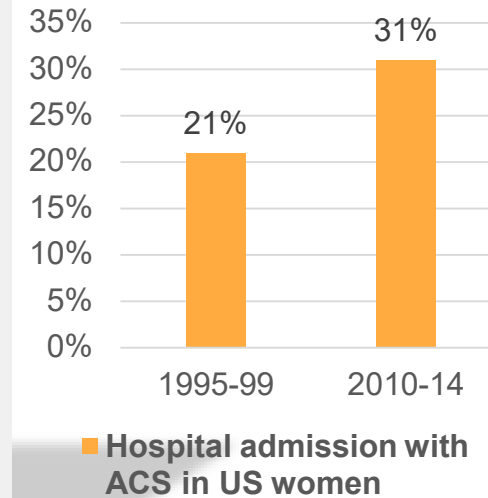
INCREASE

21% in

1995-99

31% in 2010-14

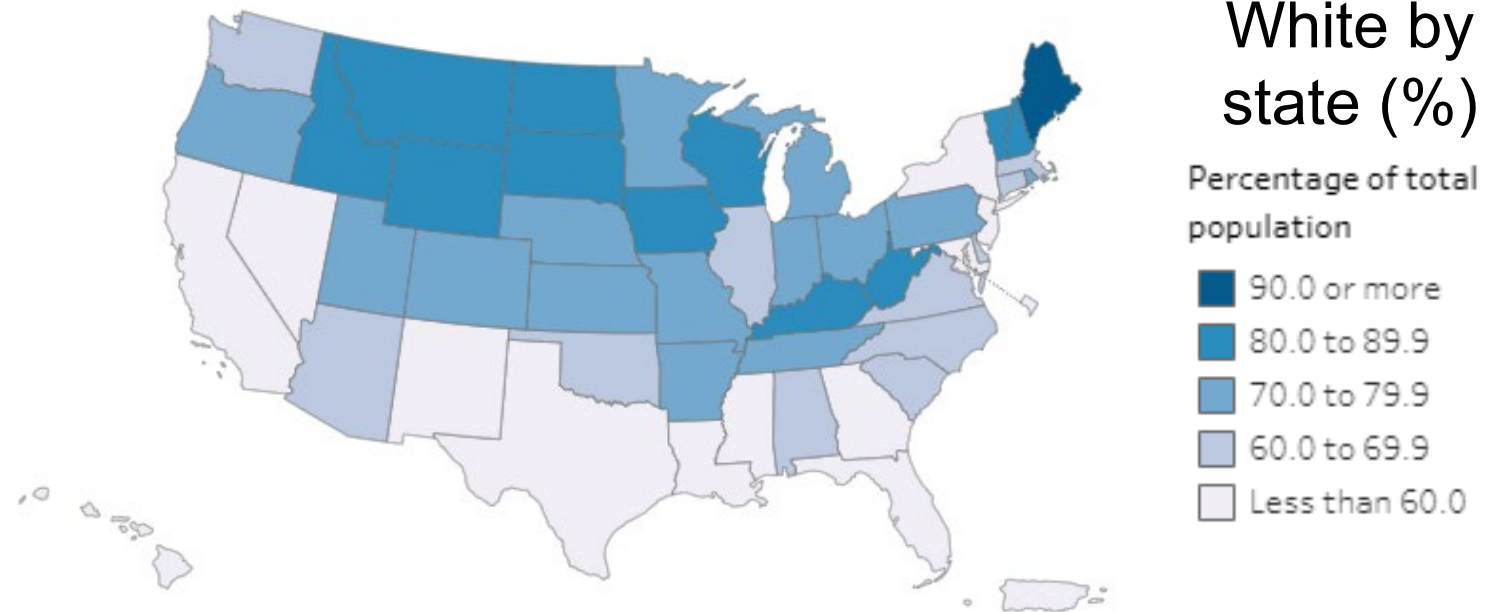
Data from US



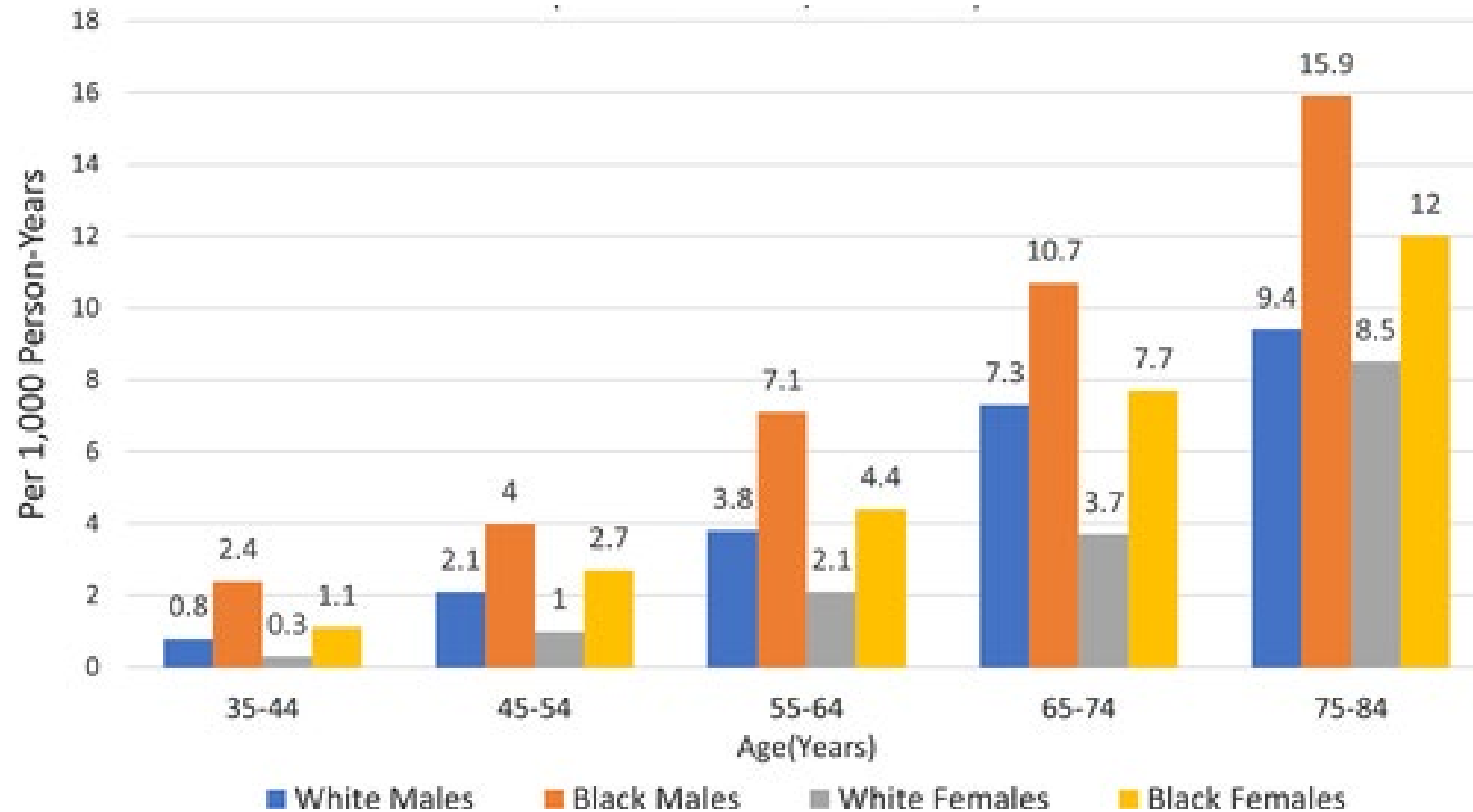
Not only gender disparities, but also ethnic/racial disparities exist!

US 2020 Census: 38.4% are other than Non-Hispanic White

In 2045, >50% of the population is expected to be other than non-Hispanic White



Incidence of myocardial infarction by age, sex and race



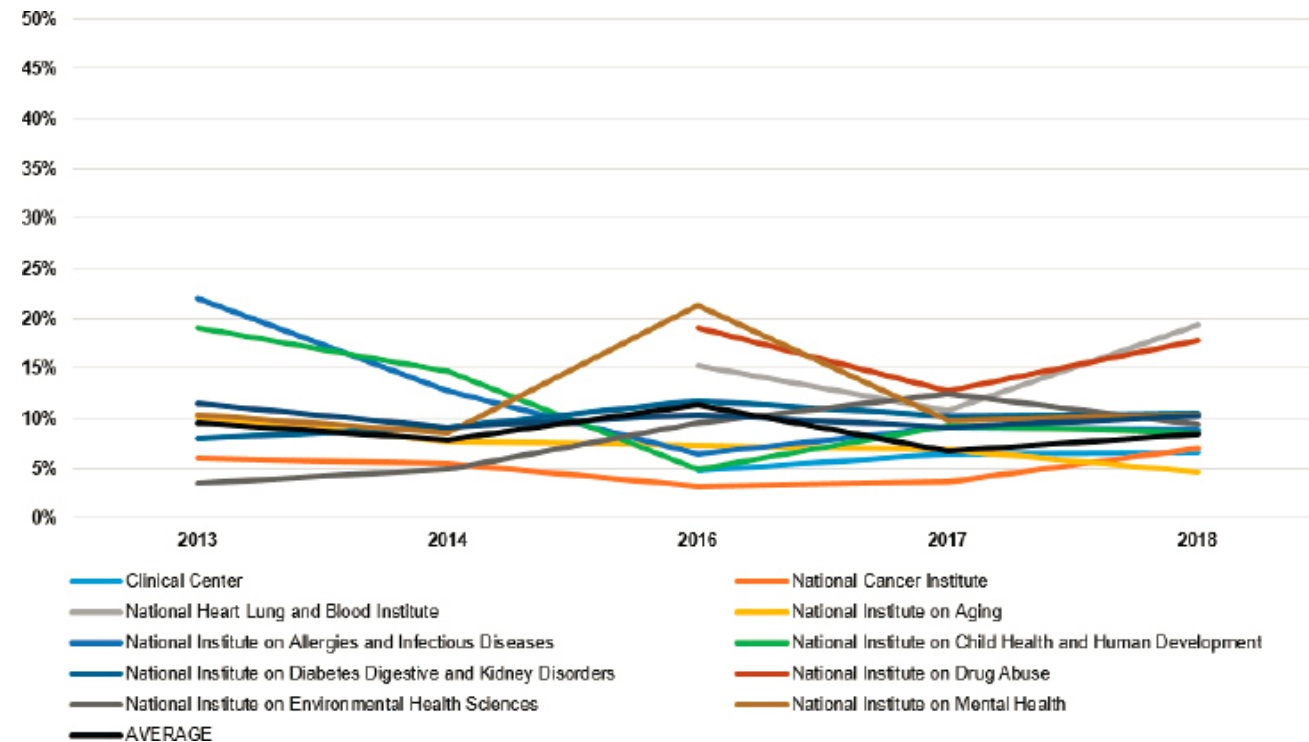
ARIC surveillance 2005-2014

- Remarkably higher risk in black females and males
- Consistent across all ages

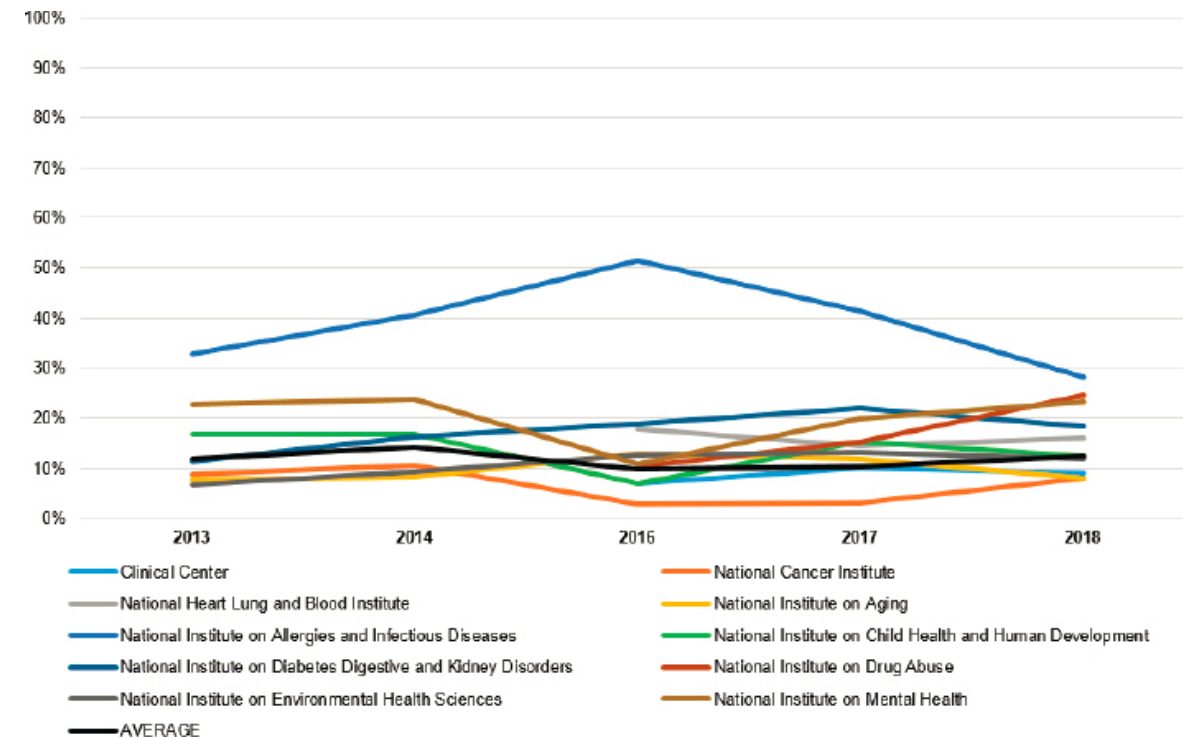
Diversity in RCTs

Enrollment of ethnic minorities in NIH clinical trials

Share of Hispanic participants in clinical trials by NIH institutes

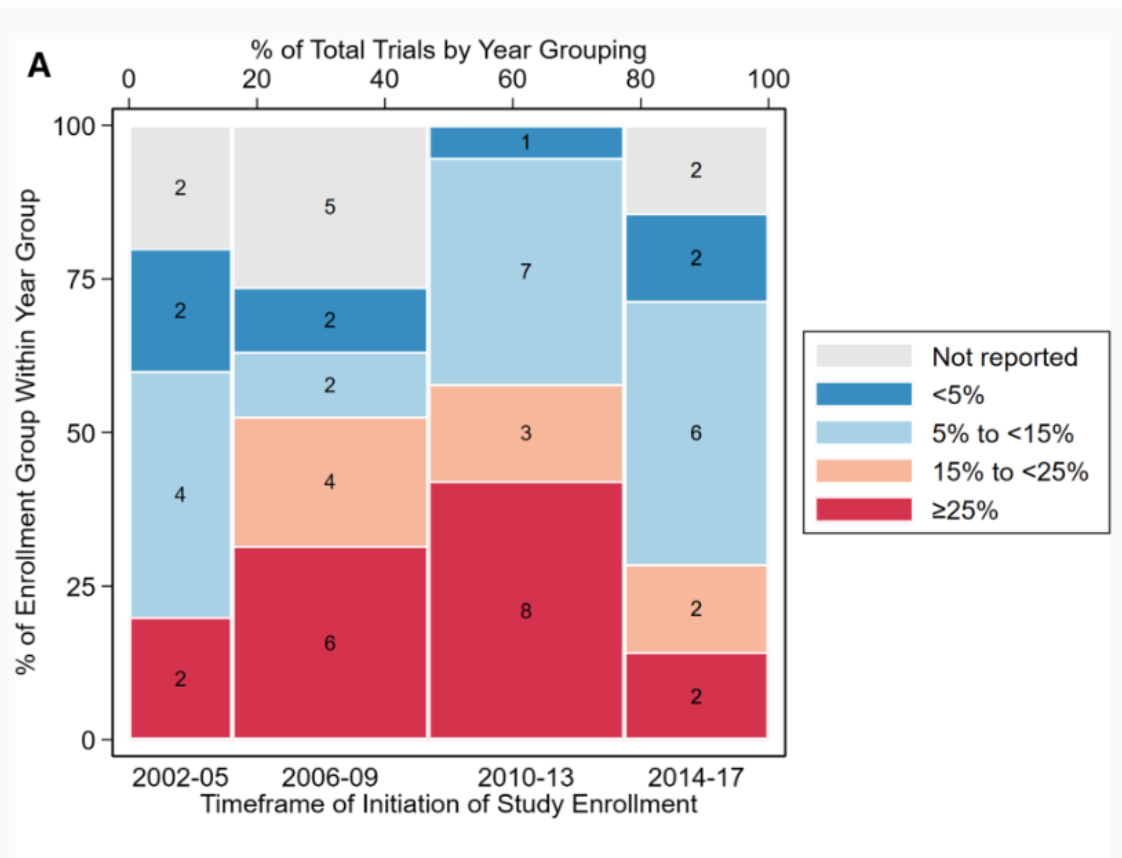


Share of African American/Black participants in clinical trials by NIH institutes



Rate of African American/Black participants in cardiovascular trials by time frame

Recruitment characteristics of NIH funded CVD trials (n=62 analysed from 2000-2019)



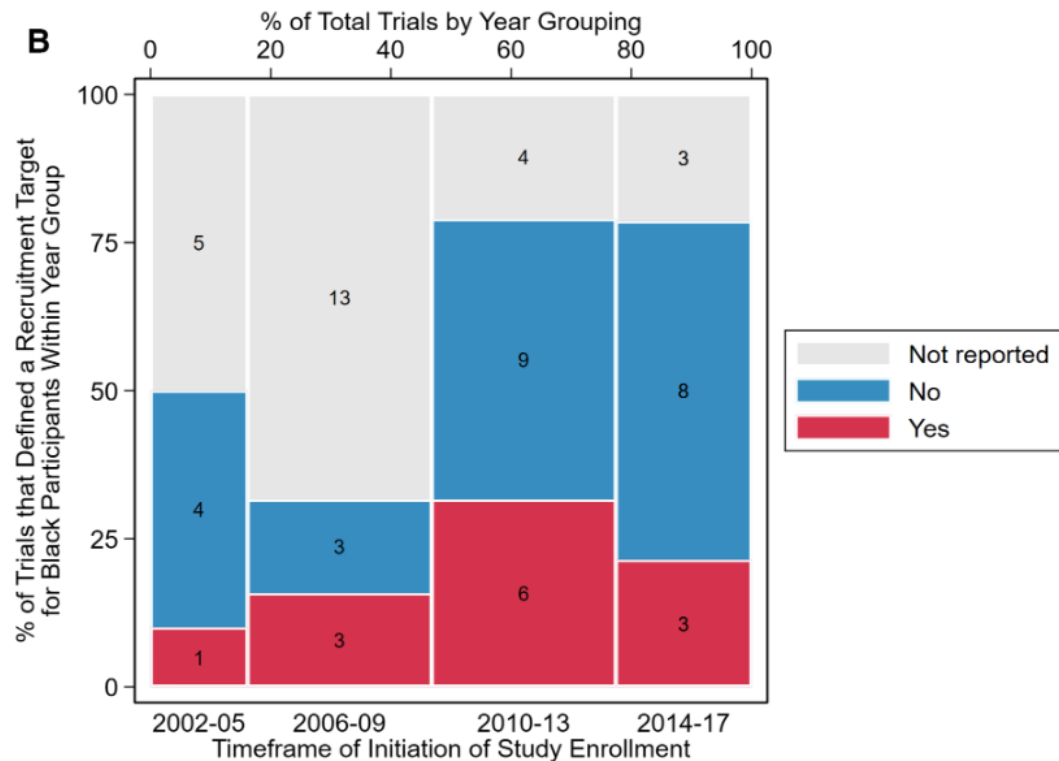
Number of clinical trials population composed of Black participants, by timeframe

- 46% of trials reported enrolling <25% Black participants
- No significant change in the recruitment of Black adults between 2002 and 2017

Setting and achieving recruitment goals for enrollment of Black participants

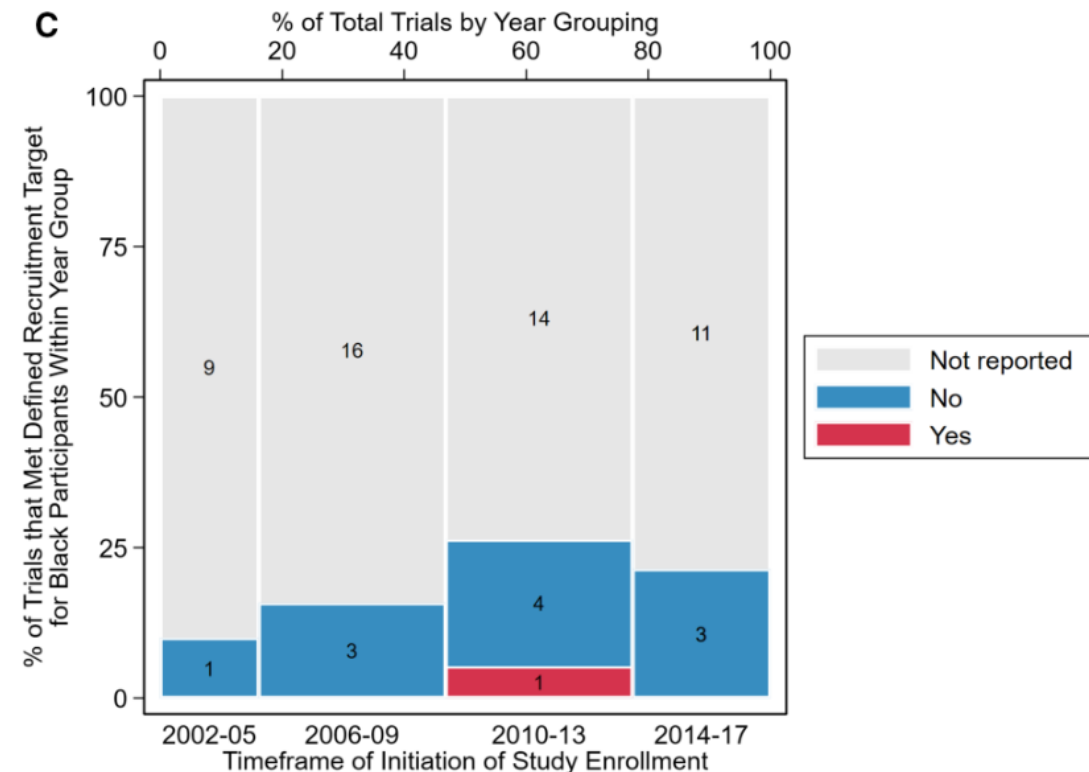
Rate of studies that defined recruitment target for Black participants, by timeframe

- Majority of trials do not define or report on recruitment targets for black participants



Rate of studies that achieved recruitment target for Black participants, by timeframe

- only 1 trial explicitly documented achieving recruitment goals for Black participants during this period



Diversity in trials supporting FDA approval of cardiometabolic drugs

Findings:
35 novel drugs

Study Participants (n=296,163)

81% White
36% Women
4% Black
12% Asian
11% Hispanic/Latino

Women: underrepresented
(particip. to prev. ratio of 0.5 for HF, CAD)

No change in enrollment over 10 years

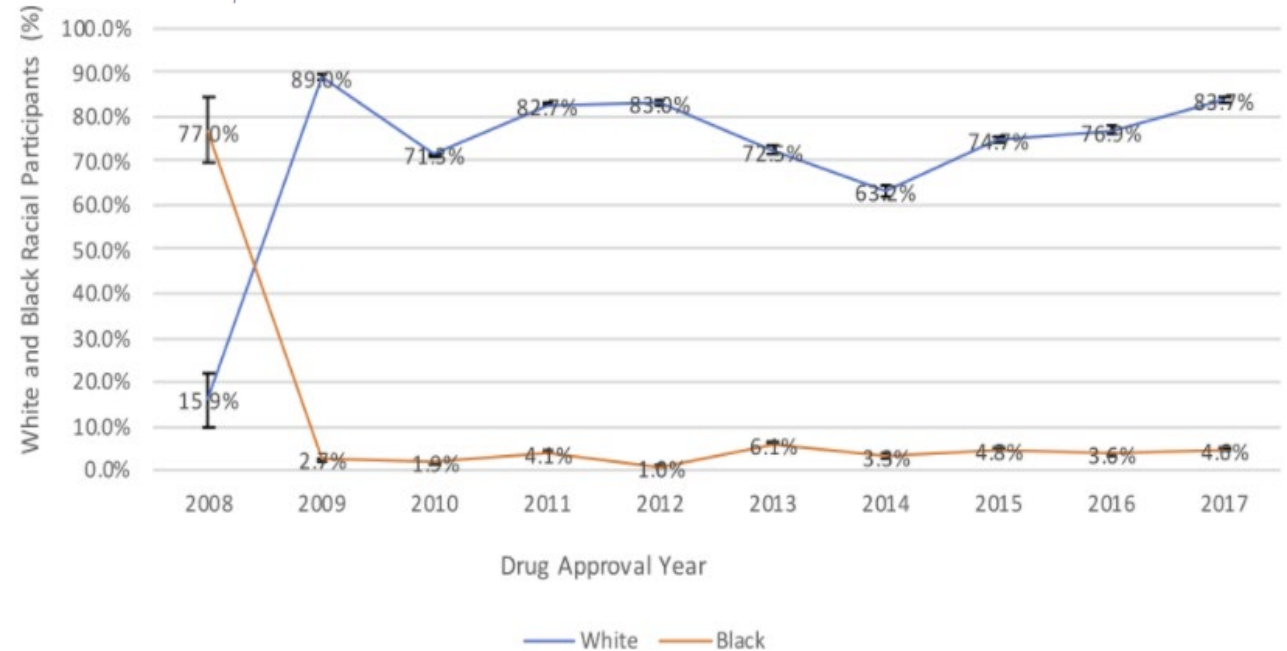
EPIDEMIOLOGY

JAHA 2020

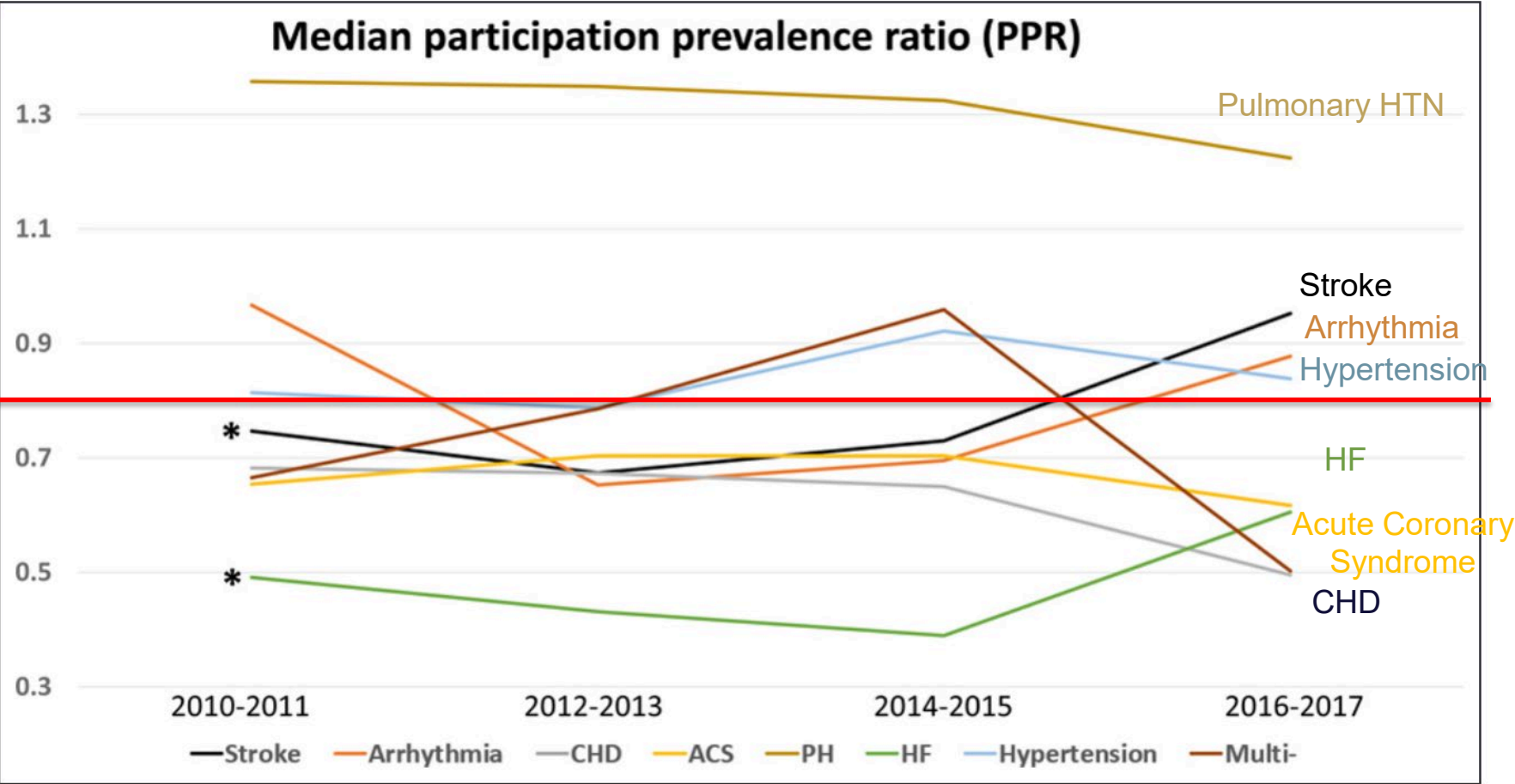


Ten-Year Trends in Enrollment of Women and Minorities in Pivotal Trials Supporting Recent US Food and Drug Administration Approval of Novel Cardiometabolic Drugs

Muhammad Shahzeb Khan, MD; Izza Shahid, MBBS; Tariq Jamal Siddiqi, MBBS; Safi U. Khan, MD; Haider J. Warraich, MD; Stephen J. Greene, MD; Javed Butler, MD, MPH, MBA; Erin D. Michos, MD, MHS



Participation-prevalence ratio of women in 740 CVD trials between 2010 and 2017



Women have been under-represented in heart failure, acute coronary syndrome, stroke, and arrhythmia trials.

PPR of <0.8 indicates underrepresentation in relation to disease prevalence

Diversity in RCTs - Why does it matter?

Generalizability of results

Ethical considerations: provide equal opportunities

Address health disparities

Practice precision medicine

Detect potential differences in safety and efficacy

Tailor practical guidelines

Improve public health outcomes



Strategies to increase the proportion of women in clinical trials



Be Inclusive

- Avoid upper and lower age limits in exclusion criteria for enrolment in trials



Meet women where they are

- Target outreach in community settings frequented by women
- Involve primary care physicians and family members
- Provide education and information about the risk but also the benefits of participation



Exchange knowledge

- Educate recruiting personnel on importance of enrolling women
- Share experience of enrolling women after each study
- Conduct routine surveys on motivations for participation and non-participation in trials



Remove barriers

- Arrange childcare and free transportation
- Offer flexible hours and at-home follow-up

Strategies to increase diversity in CVD trials



1: Ensure your eligibility criteria and recruitment pathway do not limit participation in ways you do not intend

Ensure that eligibility criteria do not disproportionately affect the ability of ethnic minority groups to take part in the trial.



2: Ensure your trial materials are developed with inclusion in mind

Consider language and not just in written form but also verbal and expressed in other ways.



3: Ensure trial staff are culturally competent

Provide support and training to all staff on cultural competency to avoid stereotypes and increase their confidence to engage with different ethnic groups.

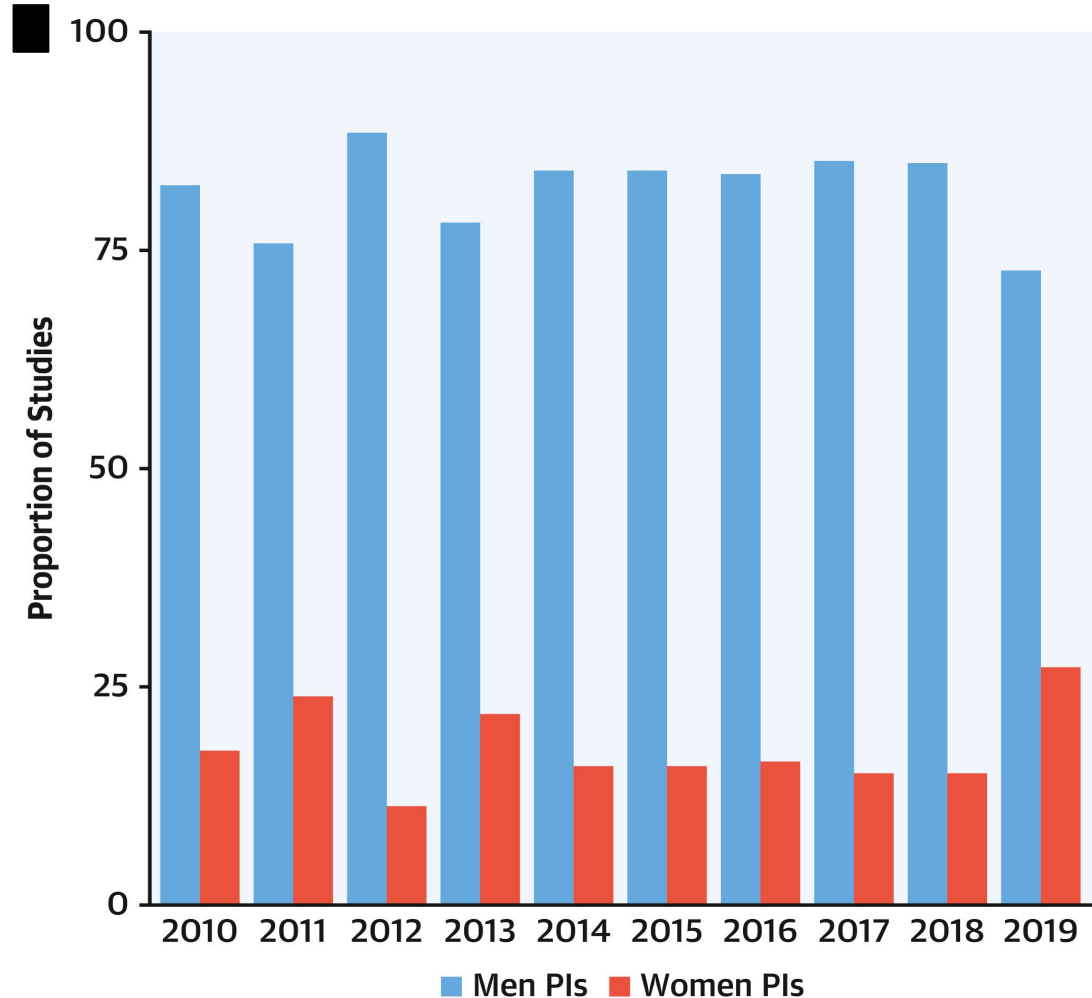


4: Build trusting partnerships with community organisations that work with ethnic minority groups

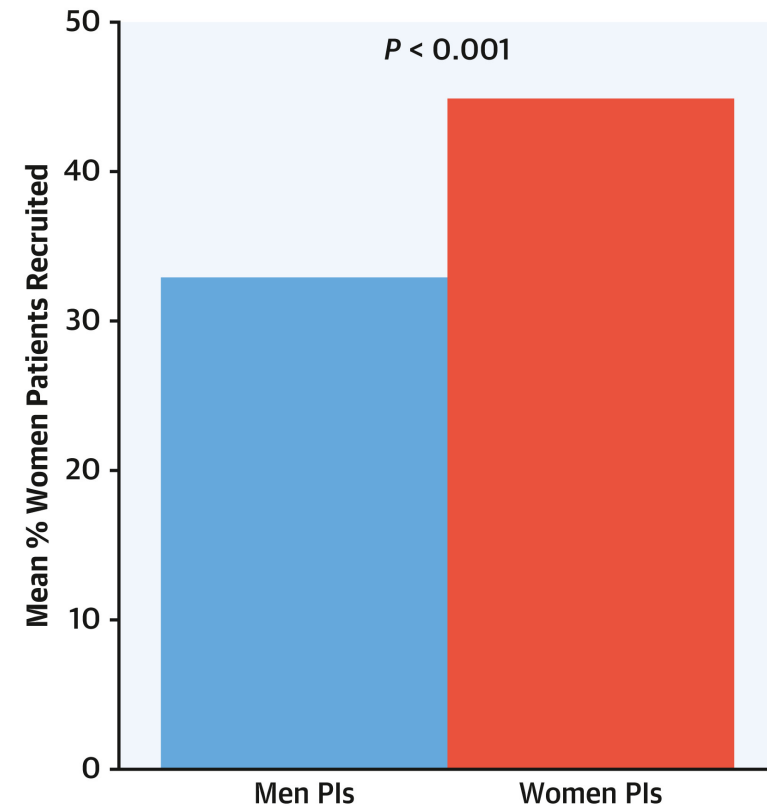
Spend time to build relationships with local community organisations and ensure you allocate time and resources to this when designing the trial.



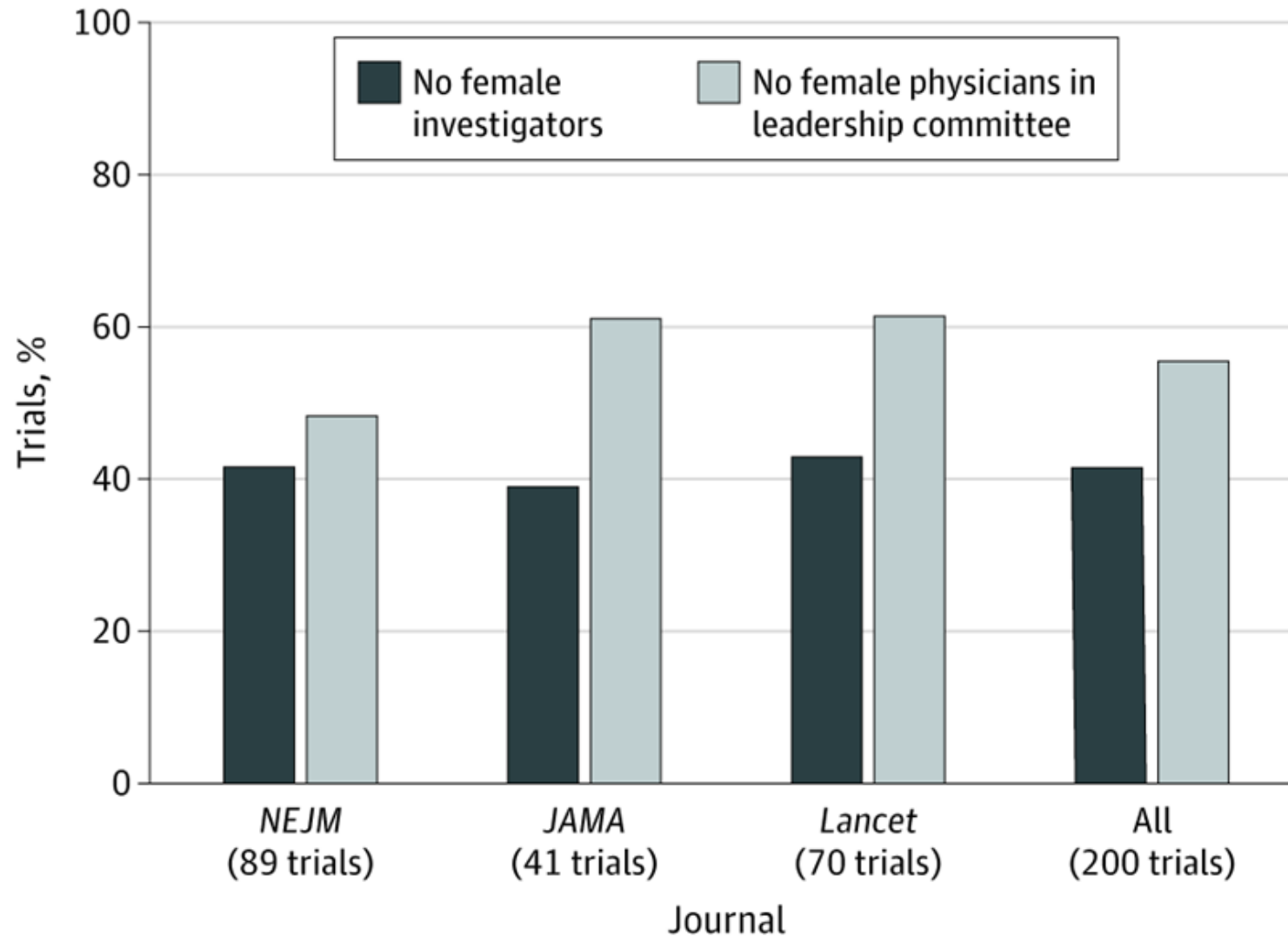
Temporal trends in principal investigator gender and association with patient diversity



Female PIs lead to a higher rate of female recruitment!



Representation of Women in CVD Clinical Trial Leadership



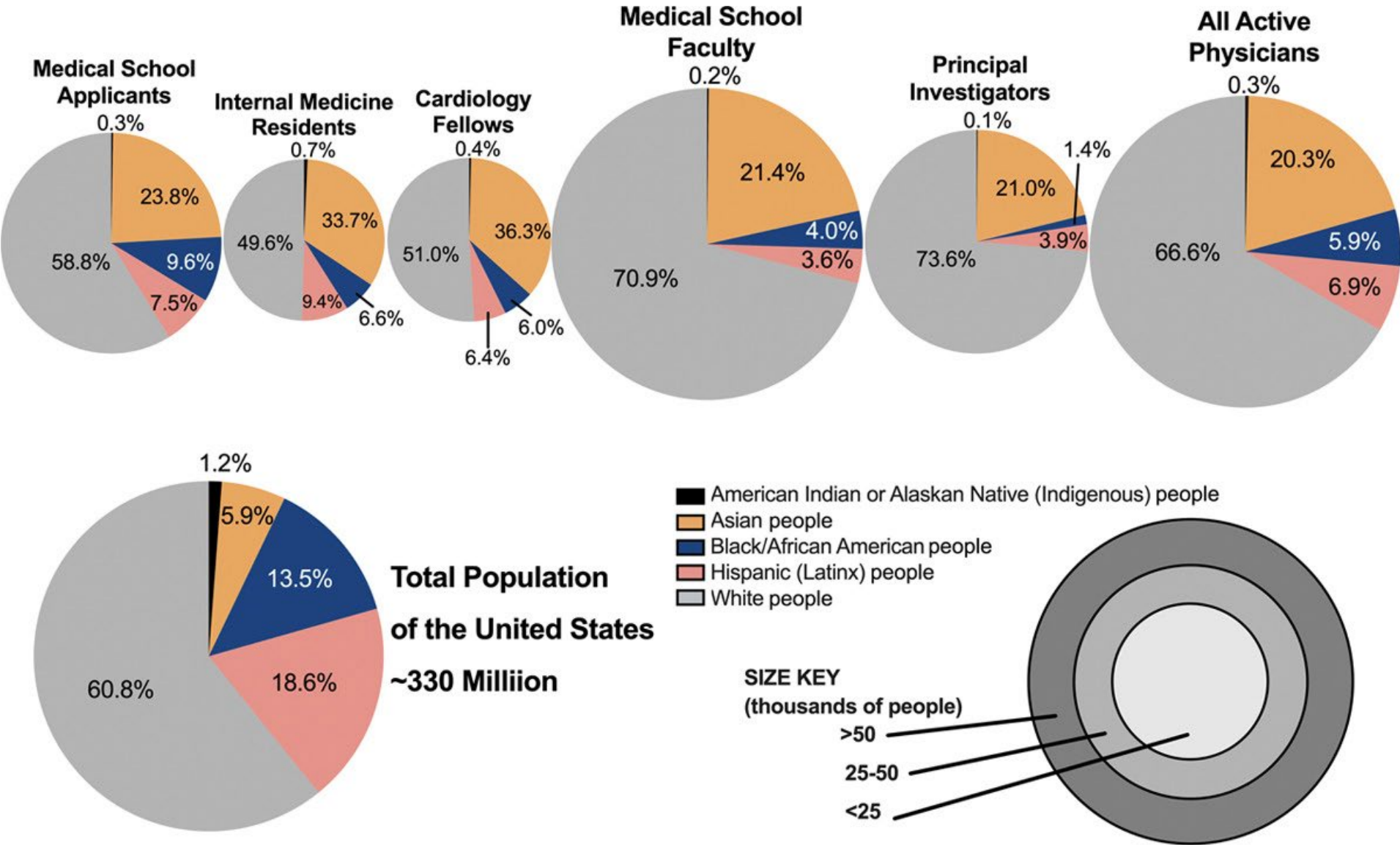
- 56% of leadership committees had no female representation.
- 42% of trials had NO women investigators.
- 9% of trial publications had women in first authorship position.

Gender Differences in Grant Funding

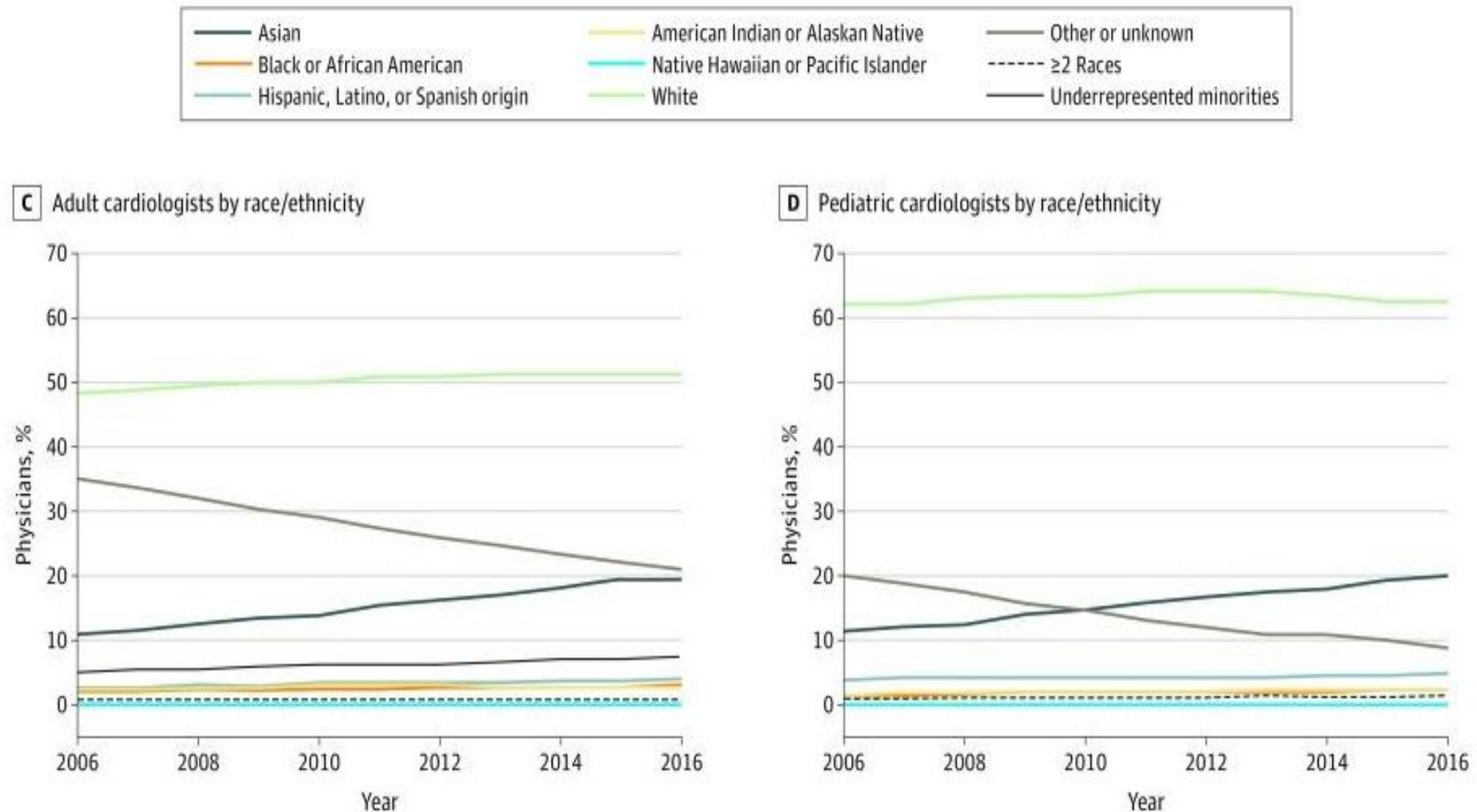
- Women are **less frequently mentored** than men and experience **less sponsorship** for NIH Mentored Career Development grants.
- Because first author roles do not track into later senior authorships as often for women, they represent **only 1 in 10 lead authors** of cardiovascular trials published in high-impact journals.
- **More than one-half** of cardiovascular trials published in 3 high-impact factor journals between 2014 and 2018 **lacked women investigators** on their executive committees.

Workforce Considerations

Contemporary trends in underrepresentation in medicine



Cardiologists by race in the US: Temporal trends



Representation of American race groups in the cardiology workforce

Data from US Census and Association of American Medical Colleges (AAMC)

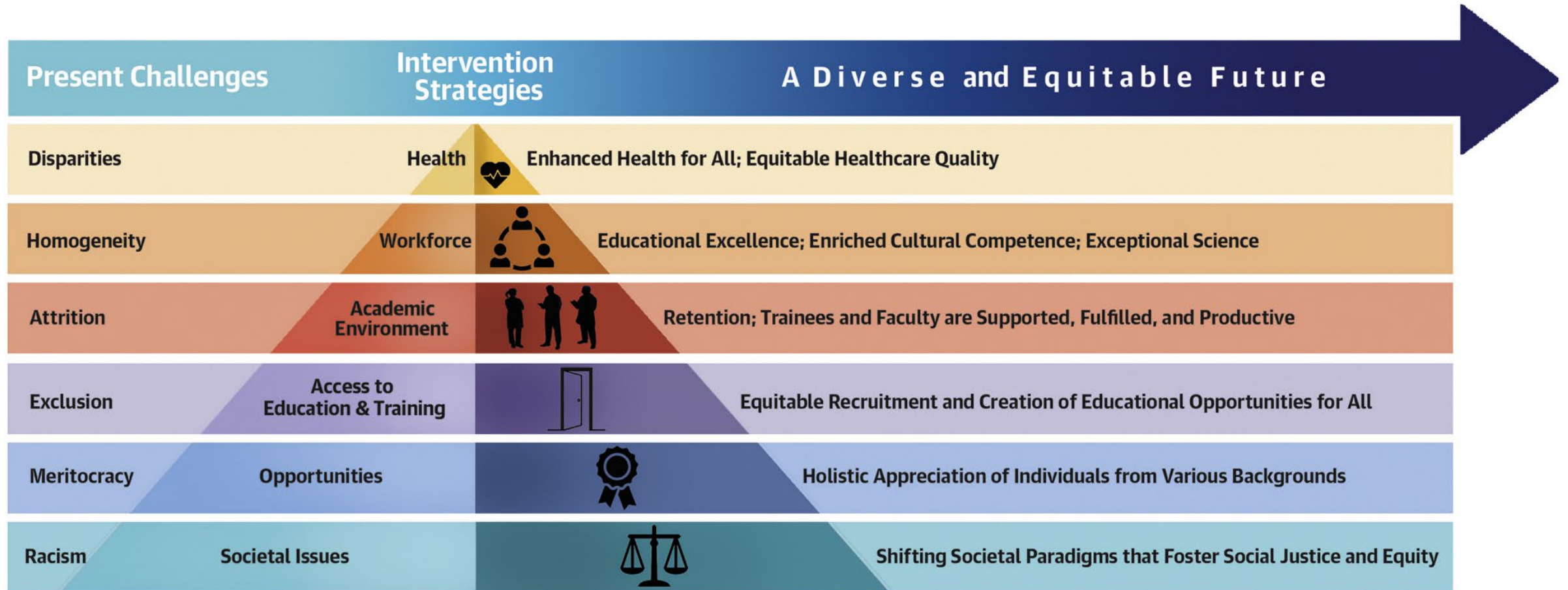
| US Federal Definition | AAMC Terminology | Terminology used in this Review | % of US Population | %of US Adult Cardiology Physician Workforce | % Difference |
|---|---------------------------|---------------------------------|--------------------|---|----------------|
| American Indian or Alaska Native. | Native American | Indigenous | 1.3 | 0.2 | -1.1 |
| Asian.[*] | Asian or Pacific Islander | -- | 5.9 | 19.9 | +14.0 |
| Black or African American. | Black | Black | 13.4 | 3 | -10.4 |
| Hispanic or Latino. | Latino/Hispanic | Latinx | 18.5 | 4.2 [§] | -14.3 |
| Native Hawaiian or Pacific Islander.[*] | Native Hawaiian | -- | 0.2 | Data not available | Unknown |
| White. | White | White | 60.5 | 51.2 | -9.3 |

Women in cardiovascular medicine

Women are only

- ❑ **18% of cardiology fellows**
- ❑ **10-15% of practicing cardiologists**
- ❑ **4% of interventional cardiologists**

Optimizing CV health requires diversification of the cardiology workforce



Six pillars of increasing the proportion of women in cardiology



How to improve (gender) diversity in clinical trial leadership?



Underrepresentation of women and minorities in cardiology and underrepresentation of women and minorities in cardiovascular research go hand in hand!

WOMEN AS ONE
promoting talent in medicine



Women as One

Proactive Solutions for Diversifying Clinical
Trial Leadership

Our Story



Women as One was founded in 2019 by **Dr. Roxana Mehran & Dr. Marie-Claude Morice**, two internationally recognized leaders in cardiovascular care and research.

Our mission is to promote talent in medicine by offering women physicians unique professional opportunities. By doing this, we aim to build a more inclusive, diverse and just workforce in medicine.

Our Mission

CLIMB Research Scholars

Uplifting women in clinical trial leadership

WOMEN AS ONE
promoting talent in medicine

Congratulations to the 2023 Awardees



Erin Bohula
MD, PhD
*Harvard Medical School,
United States*



Caroline Coats
MBBS, MSc, PhD
*Queen Elizabeth University
Hospital, Scotland*



Sonali Gnanenthiran,
MD, PhD
*Concord Hospital,
Australia*

Join the Talent Directory to be eligible for the 2024 program

www.womenasone.org/talent-directory

With thanks to 2023 program partners

CVCT

ESPERION

REACHING GOALS

THE 2024 ESCALATOR AWARDS

- ✓ Gain **professional visibility** with **targeted financial support**
- ✓ Access to **mentorship** and **exclusive networking opportunities**

Focus on mentorship for 2024

- Pairs fellows-in-training (mentees) to women with more than 10 years of professional experience (mentors).
- Together, the match will develop a project that can be carried out over the course of the 12-month award cycle.



Take your career to the next level

Applications open January 2024

The Talent Directory

The Talent Directory is a global community of **2300+** women cardiologists.



For women physicians, the Talent Directory unlocks professional advancement opportunities.



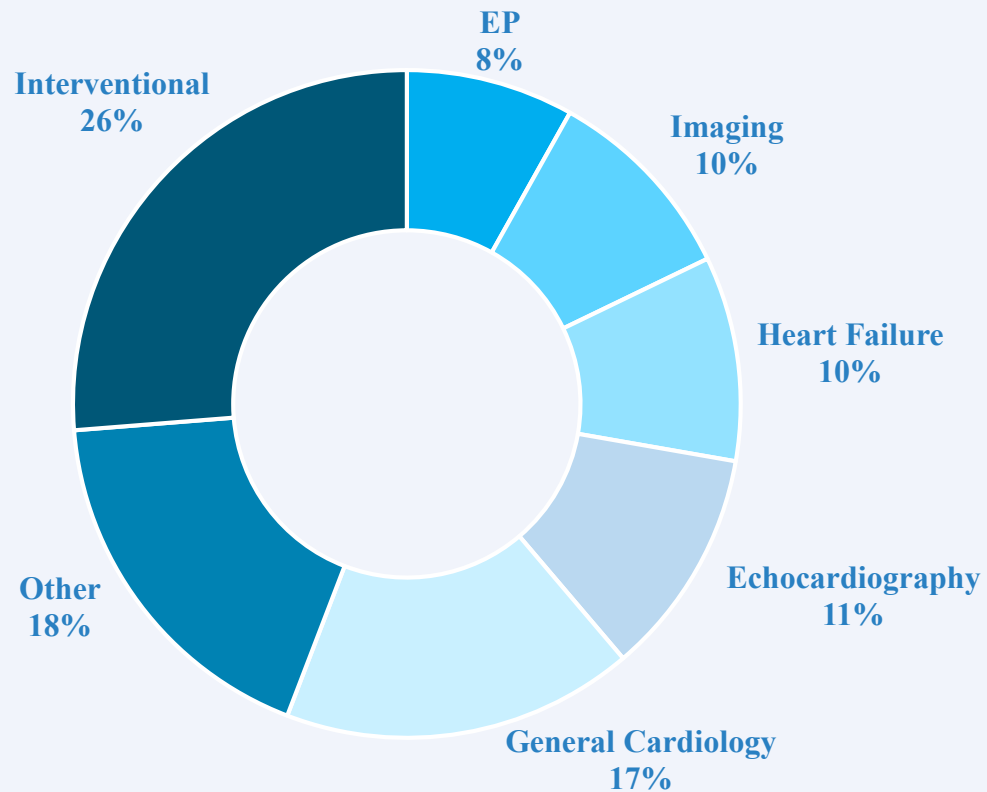
For organizations, the Talent Directory provides access to the insights and qualifications of a global pool of women physicians.



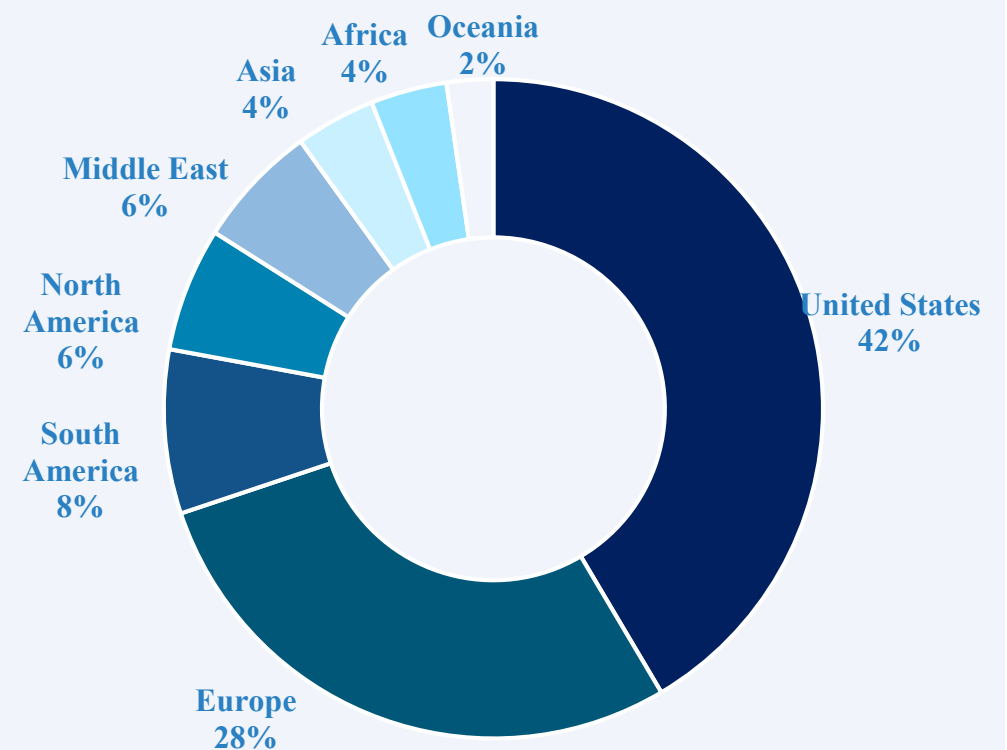
Breakdown of the Talent Directory

2345 total registrants
99 countries represented
Full CVs collected, sortable data

Subspecialty

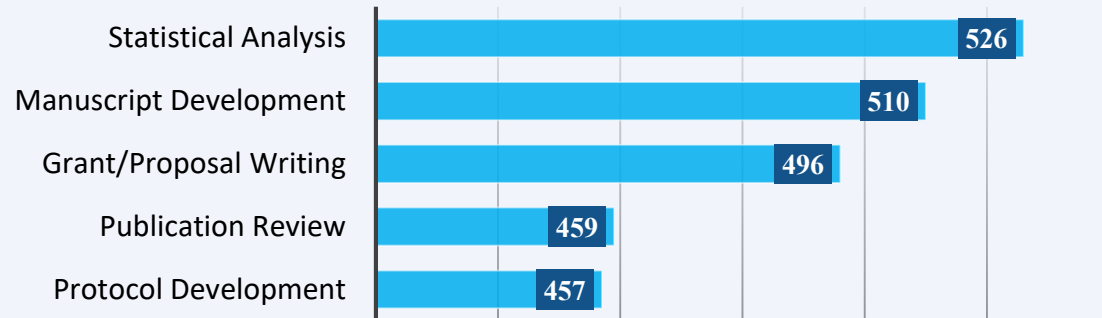


Region



Research Registrant Snapshot

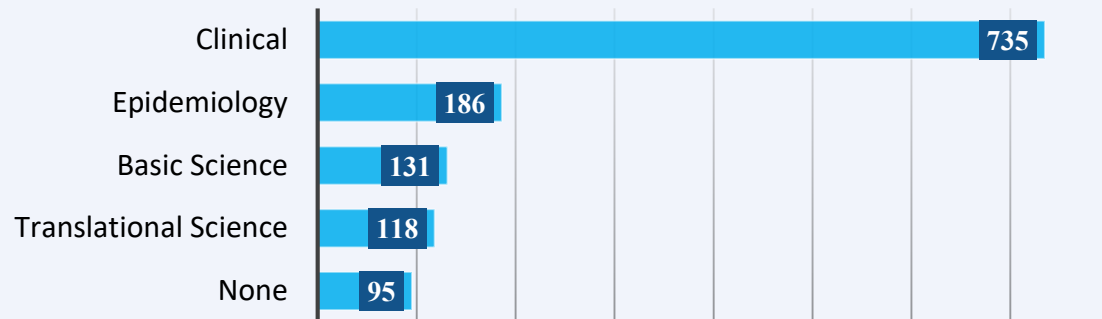
Research Topic Interests



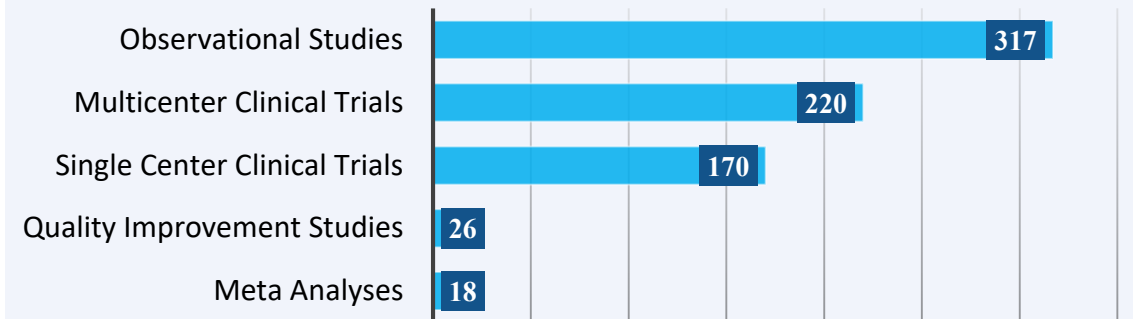
1017 Completed Research Profiles

- ❖ 222 registrants have Clinical Trial Leadership Experience.
- ❖ 435 registrants are interested in Clinical Trial Leadership.

Research Type



Clinical Research Type



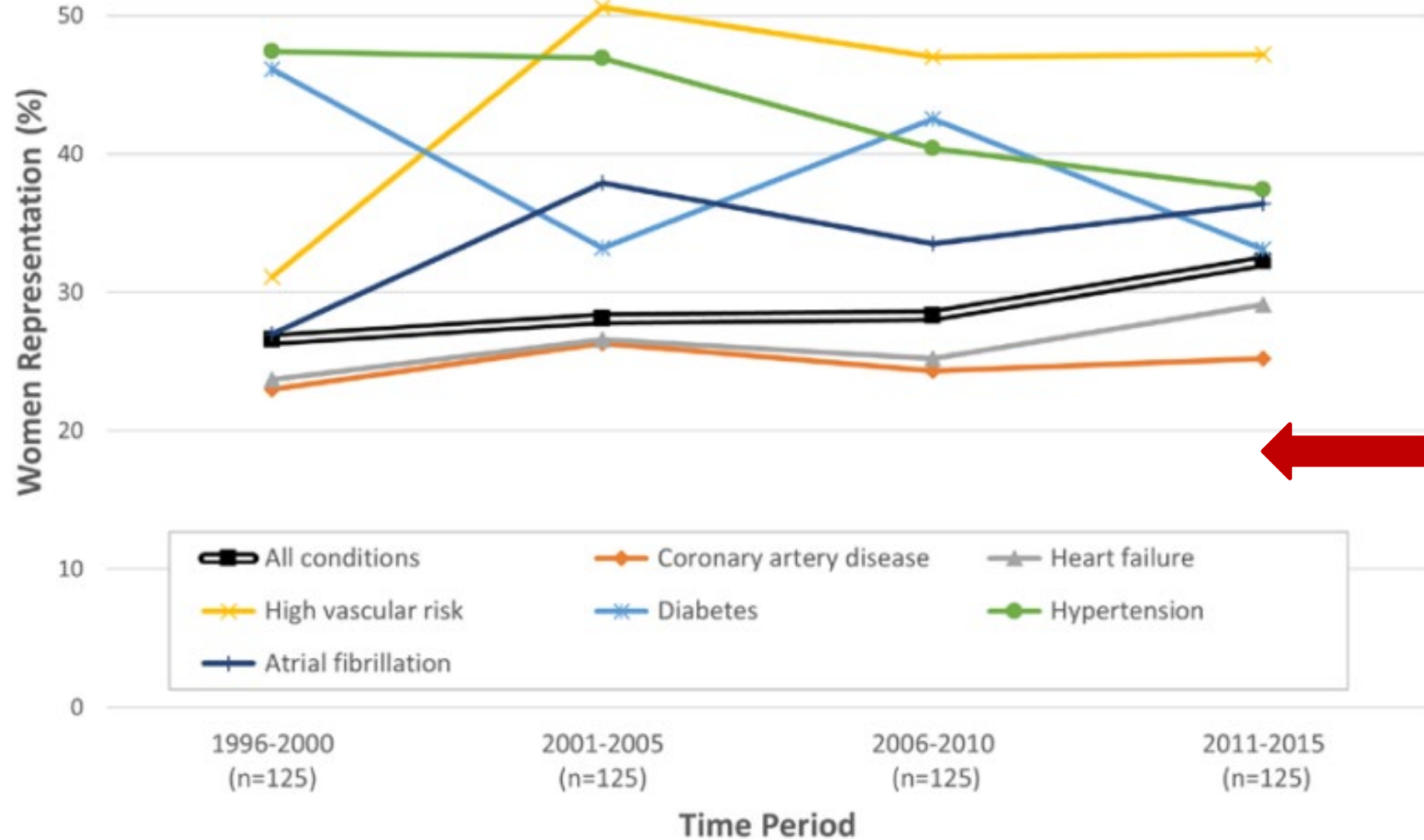
Women as One Institute for Research Innovation

Increasing and enhancing the participation of women within cardiovascular clinical research.

- ✓ Training, identification & qualification of women investigators
- ✓ Funding & promoting women researchers
- ✓ Consultancy services to increase representation of women in trials
- ✓ De novo study development
- ✓ Development & dissemination of best practices

COMING IN 2024

Female representation in cardiology trials over time



Colchicine in patients with chronic coronary syndromes:

LODOCO

Nidorf SM et al. N Engl J Med 2020;383:1838-47

Table 1. Characteristics of the Trial Patients at Baseline.*

| Characteristic | Colchicine (N = 2762) | Placebo (N = 2760) |
|----------------------|--------------------------|-----------------------|
| Age — yr | 65.8±8.4 | 65.9±8.7 |
| Female sex — no. (%) | 457 (16.5) | 389 (14.1) |
| Country — no. (%) | | |
| Australia | 951 (34.4) | 953 (34.5) |
| The Netherlands | 1811 (65.6) | 1807 (65.5) |

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4S study:

| Pedersen TL, et al Lancet 1994 | Placebo (n=2223) | Simvastatin (n=2221) |
|--------------------------------|---------------------|-------------------------|
| No (%) of patients | | |
| Male | 1803 (81) | 1814 (82) |
| Female | 420 (19) | 407 (18) |
| Age ≥60 yr | 1126 (51) | 1156 (52) |

A Placebo-Controlled Trial of Percutaneous
Coronary Intervention for Stable Angina

NEJM nov 2023 ORBITA-2

| Characteristic | PCI (N = 151) | Placebo (N = 150) | Overall (N = 301) |
|--------------------|------------------|----------------------|----------------------|
| Age — yr | 65±9 | 64±9 | 64±9 |
| Male sex — no. (%) | 120 (79) | 118 (79) | 238 (79) |

A Placebo-Controlled Trial of Percutaneous Coronary Intervention for Stable Angina

NEJM nov 2023 ORBITA-2

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|--------------------|------------------|----------------------|----------------------|
| Age — yr | 65±9 | 64±9 | 64±9 |
| Male sex — no. (%) | 120 (79) | 118 (79) | 238 (79) |

33 randomized clinical trials

104,972 total enrolled trial participants

31 of the 33 randomized clinical trials were mentioned

Searched 4 academic databases for randomized clinical trials reporting interventions resulting in reduced mortality or hospitalization for heart failure (1995-2021)

CLINICAL PRACTICE GUIDELINE: FULL TEXT

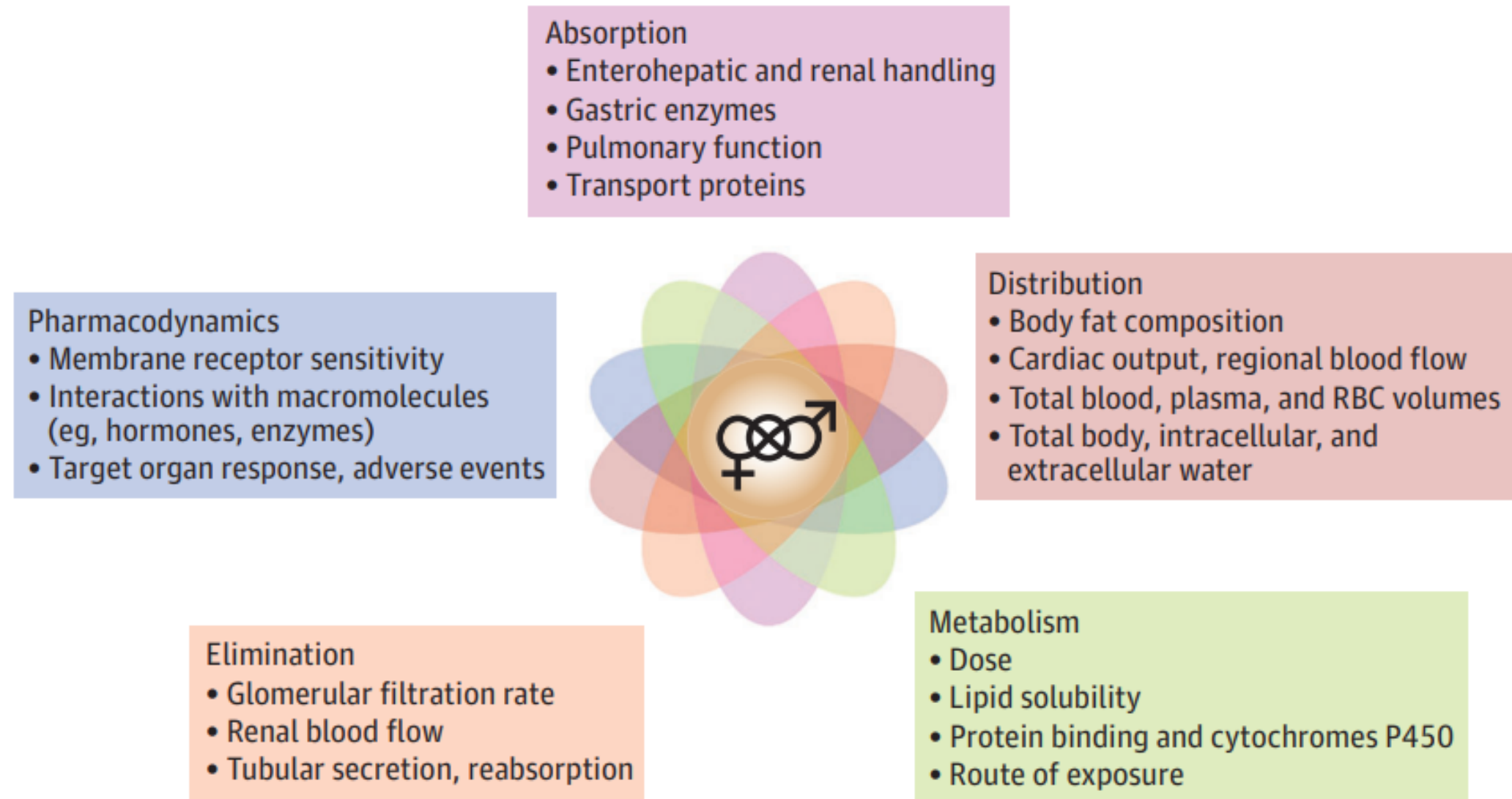
2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure

A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines

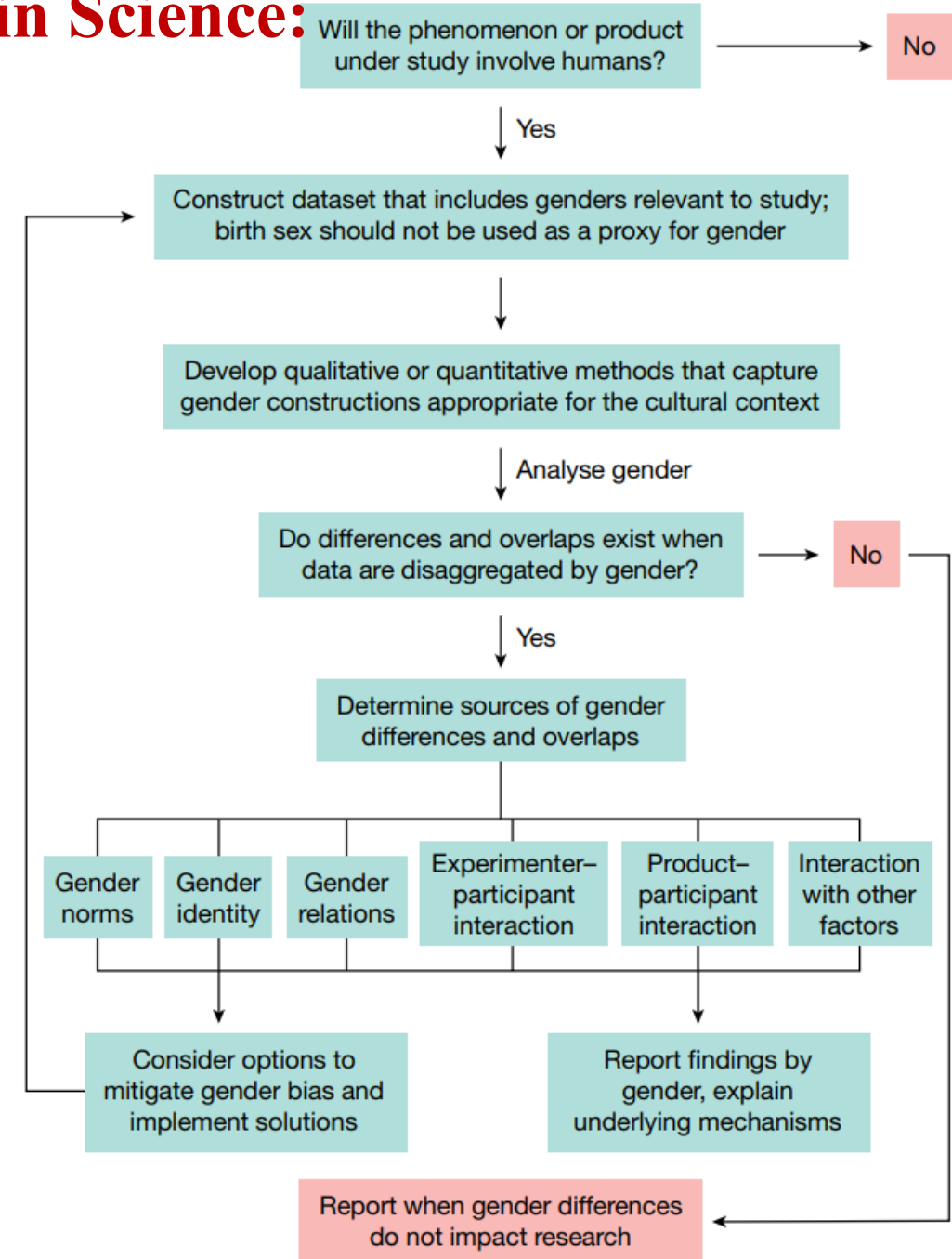
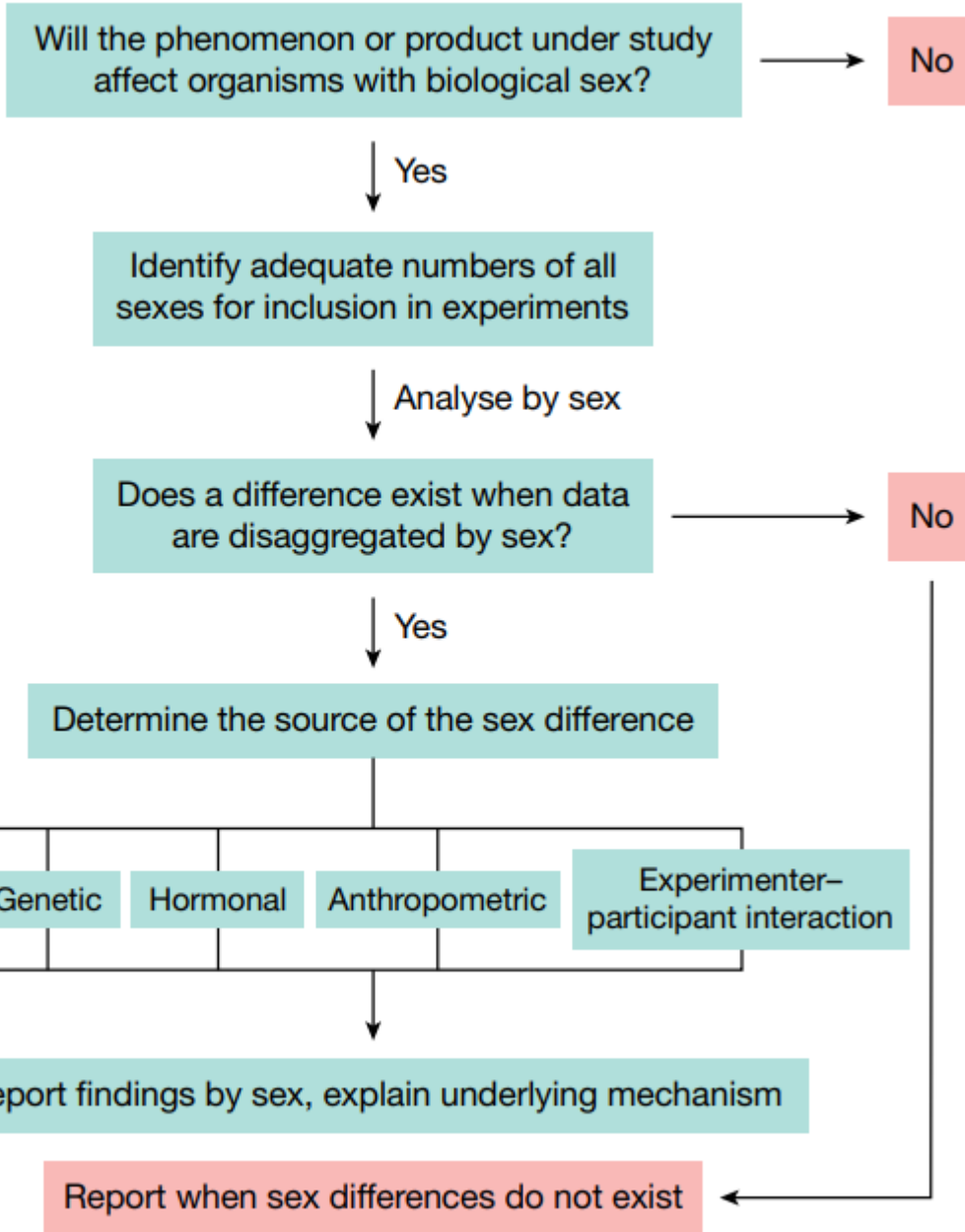
Representation of women in heart failure with reduced ejection fraction trials

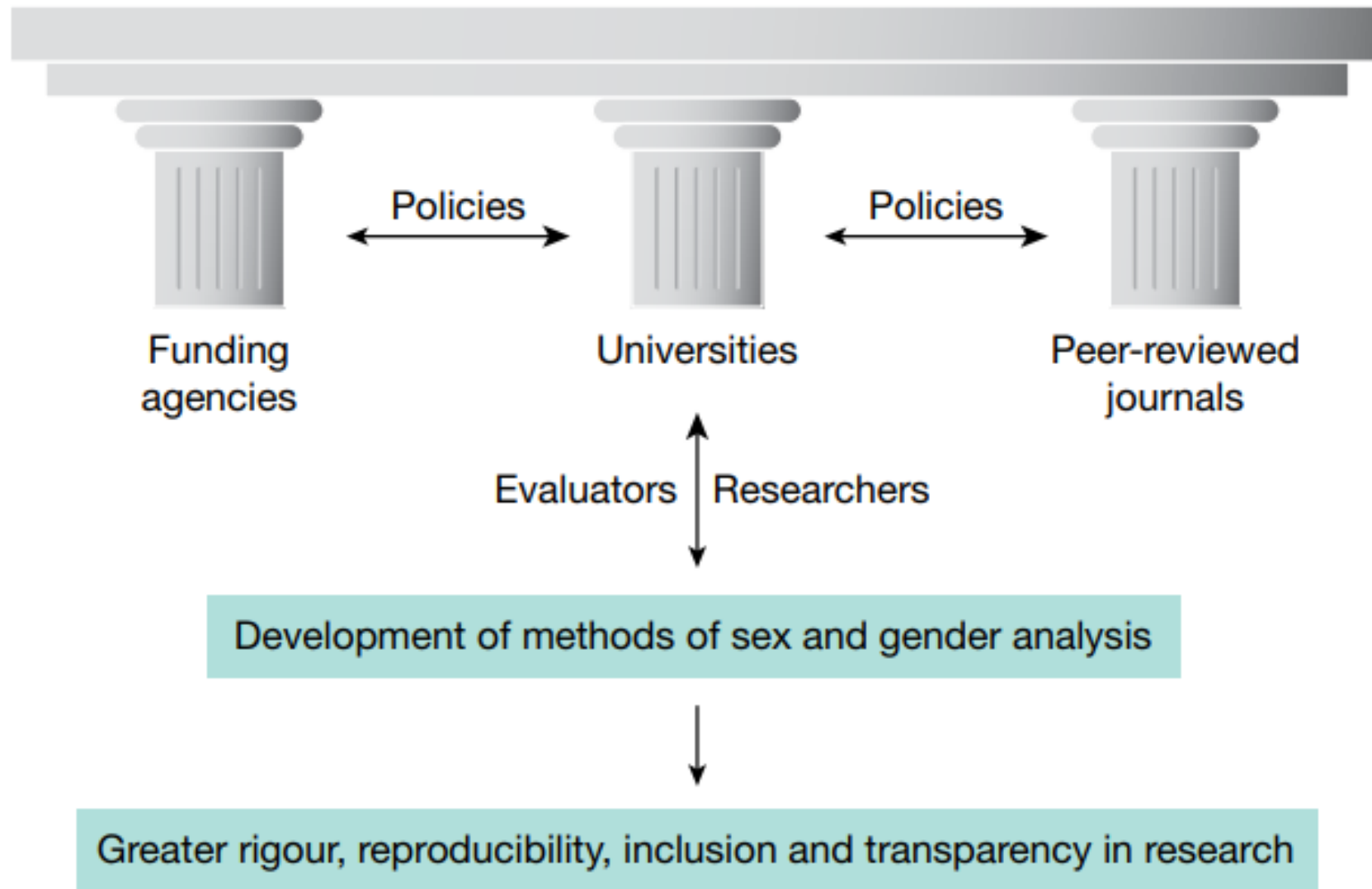
| | | | |
|--------------------|---|---|--------------------------|
| Funding source: | Industry-funded trials | > | Government-funded trials |
| Enrollment region: | North American and multiregional trials | > | European trials |
| Temporal trends: | Did not improve over time | | |

Figure 4. Parameters Through Which Sex May Affect an Individual's Response to Pharmaceuticals



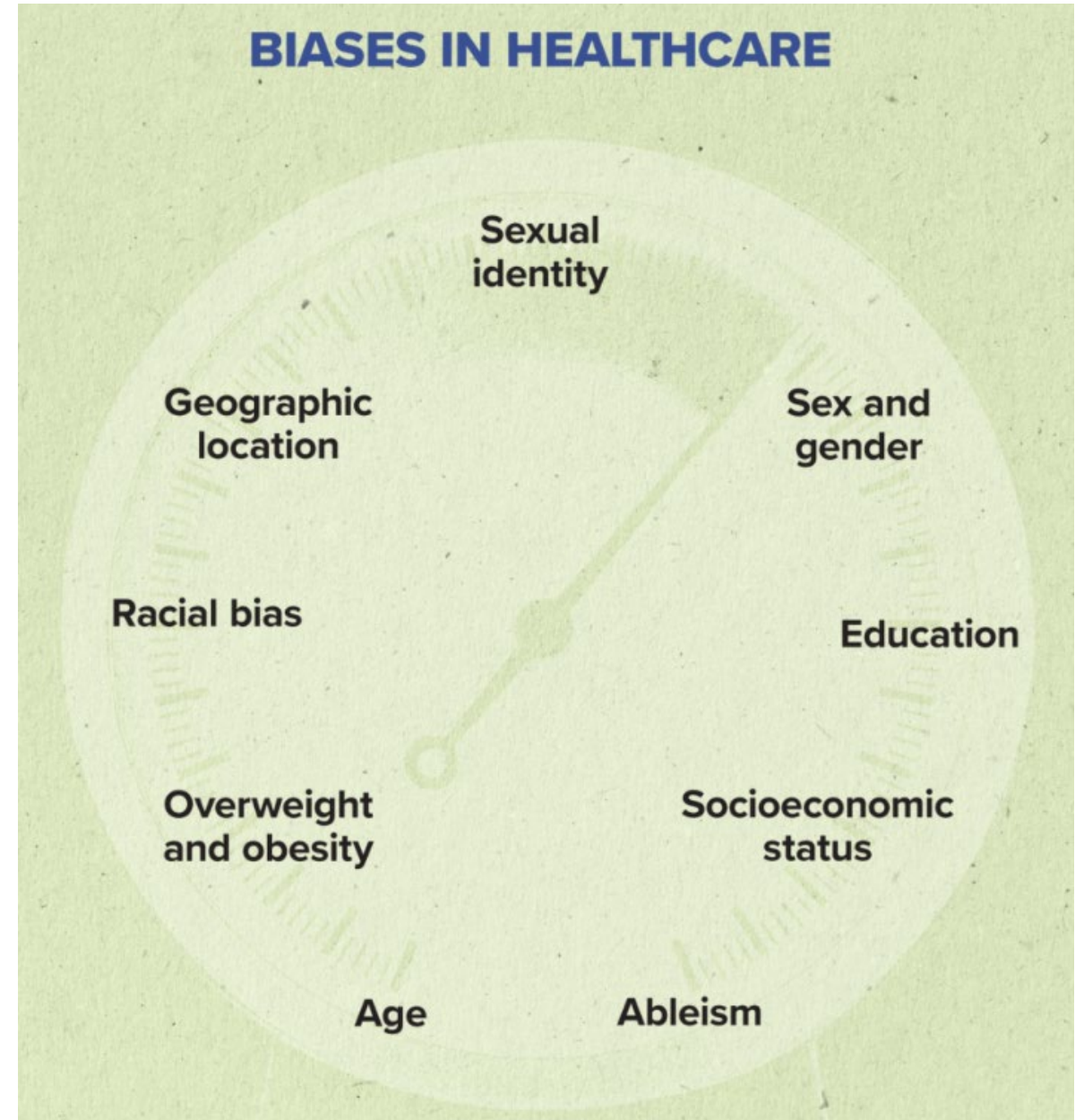
Sex and Gender reporting in Science:





Sources of bias in healthcare, even by experts:

2030



**What is being done from a governmental,
federal, scientific-community and industry
based standpoint for diversity in clinical
trials?**



NOVEMBER 17, 2023

Launch of White House Initiative on Women's Health Research



GPC

BRIEFING ROOM

BLOG

On November 13, President Biden announced the first-ever White House Initiative on Women's Health Research, an effort led by First Lady Jill Biden and the White House Gender Policy Council.

Aims:

- ✓ Deliver concrete recommendations to advance women's health research
- ✓ Take a targeted, high-impact approach
- ✓ Engage the scientific, private sector, and philanthropic communities



HOUSE PASSES THE CONSOLIDATED APPROPRIATIONS ACT OF 2023

Under the **2023 Consolidated Appropriations Act** (December 29, 2022)

- lawmakers have instructed FDA to **require diversity plans** for all Phase 3 clinical trials conducted for **drugs and biologics**
- the same **for all devices** and diagnostics that use the 510(k), premarket approval (PMA), de novo, and investigational device exemption (IDE) pathways

Diversity, Equity, Inclusion, and Accessibility (DEIA) – targeted by the FDA and others

- D** **Diversity** means the practice of including the many communities, identities, races, ethnicities, backgrounds, abilities, cultures, and beliefs of the American people, including underserved communities.
- E** **Equity** means the consistent and systematic fair, just, and impartial treatment of all individuals, including individuals who belong to underserved communities that have been denied such treatment.
- I** **Inclusion** means the recognition, appreciation, and use of the talents and skills of employees of all backgrounds.
- A** **Accessibility** means the design, construction, development, and maintenance of facilities, information and communication technology, programs and services so that all people, including people with disabilities, can fully and independently use them. Accessibility includes the provision of accommodations and modifications to ensure equal access to employment and participation in activities for people with disabilities, the reduction or elimination of physical and attitudinal barriers to equitable opportunities, a commitment to ensuring that people with disabilities can independently access every outward-facing and internal activity or electronic space, and the pursuit of best practices such as universal design.

FDA diversity plan draft

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

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.

April 2022

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

November 2020

FDA diversity plan draft

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Sites and sponsors now know they need to:

- Explain their specific diversity goals
- Justify why they chose those goals based on the disease they're treating
- Describe how they plan to reach those goals

FDA workforce DEIA plan

Building on President Biden's Executive Order 14035 "Diversity, Equity, Inclusion, and Accessibility (DEIA) in the Federal Workforce"

7 objectives aimed at improving DEIA in the FDA and beyond



Objective 1: Increase inclusion of diverse groups by investing in community building and education

Invest in developing agency-wide Employee Resource Groups/Affinity Groups (ERG/AGs) with formal support mechanisms to respond to ERG/AG priorities through agency actions. Increase the availability of DEIA training and development opportunities that celebrate diverse backgrounds and connect employees from across the agency.

Objective 2: Enhance performance evaluations, promotion, and development opportunities

Enhance performance evaluations, promotion, and development opportunities.



Objective 3: Continue to promote a fair and protective workplace for all
Standardized and centralized processes, procedures, and workflows, including technology-enabled tracking, and launch a systematic and widespread approach to communicate and educate employees on anti-harassment.

Objective 4: Enhance the collection, analysis, and reporting of demographic information

Drive a set of tactical initiatives to enhance the availability and quality of demographic information available across the employee lifecycle, starting with the recruiting process, and a commitment to analyze available information for actionable insights.



Objective 5: Enhance outreach, recruitment, and retention efforts to increase representation of underrepresented groups

Understand barriers to achieving representation that reflects the civilian workforce within each grade level and establish targeted programs to remove those barriers across various stages of the employee lifecycle.

Objective 6: Improve accessibility across the agency

Assess and bolster the effectiveness of practices used to provide accessibility for FDA employees and prospective employees, including reasonable accommodations, workplace accessibility, and accessibility in information and communication technologies.



Objective 7: Leverage innovation and creativity to meet Center/Office-specific DEIA needs

Provide Center/Office leaders additional flexibility in meeting the DEIA needs of their workforces. Center/Office-specific initiatives that do not align to Strategic Objectives 1-6 will be captured under Objective 7 and the measurement approach will be defined on an initiative-by-initiative basis.

A change in diversity in clinical trials will only come along with a diverse workforce!

2022–2025 Strategic Plan

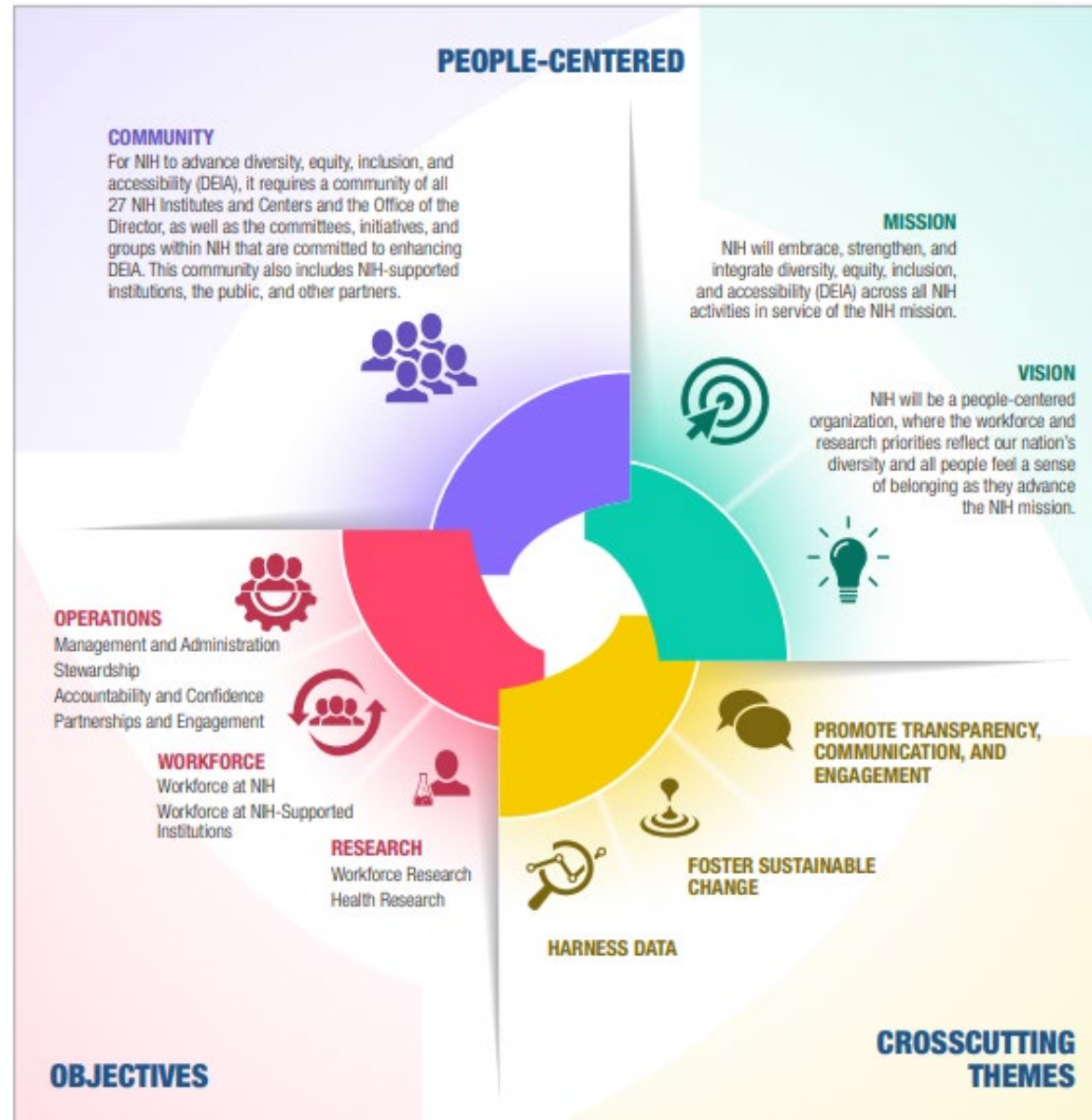
NIH DEIA plan



Three objectives:

- growing and sustaining diversity, equity, inclusion, and accessibility through **structural and cultural change**
- **implementing organizational practices** to center and prioritize diversity, equity, inclusion, and accessibility in the biomedical and behavioral research workforce
- **advancing diversity**, equity, inclusion, and accessibility through **research**

NIH DEIA plan



Inclusion of Women and Minorities as Participants in Research Involving Human Subjects

Proposals

- All NIH-funded studies **must address plans for the inclusion of women and minorities**
- Any **exclusions** based on **sex/race/ethnicity** must include a **rationale and justification**
- Appropriate **outreach programs** and activities to **recruit** and retain the **proposed study population**
- Valid **analysis of group differences** on the basis of sex/race/ethnicity

Review

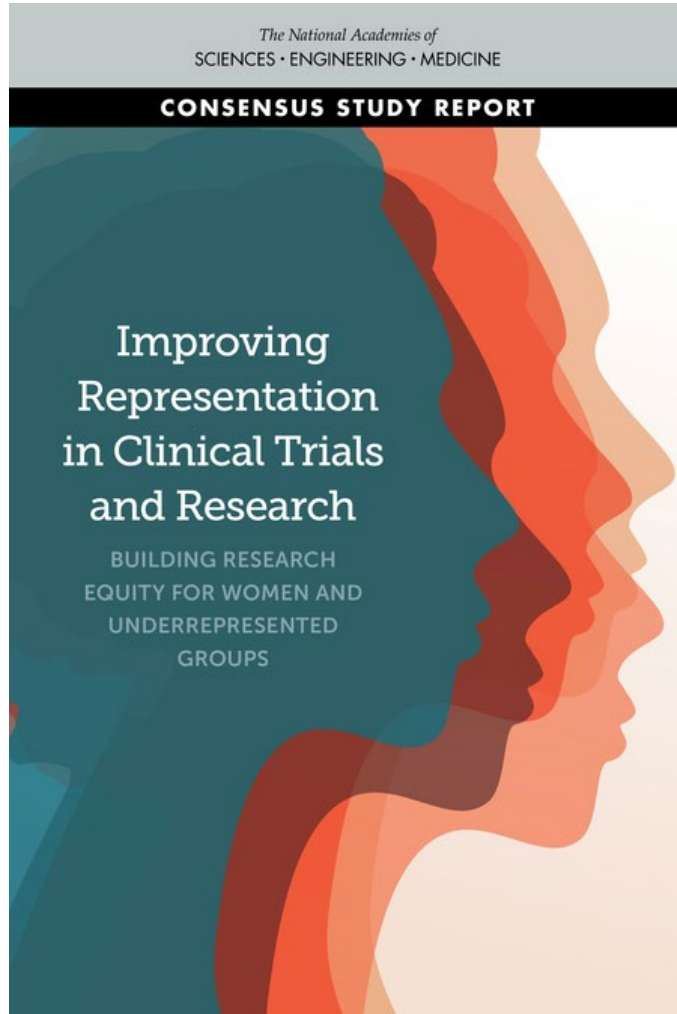
- Scientific **Review Groups** will assess each application/proposal being **acceptable** with regard to the **inclusion of racial/ethnic minorities/women**

Progress

- annual **report on sex/gender, race/ethnicity** in progress reports

Report from the National Academies of Sciences, Engineering, and Medicine (2022)

Kirsten Bibbins-Domingo et al.



Lack of representation may compound low accrual that causes many trials to fail.

Lack of representation may hinder innovation and new discoveries.

Lack of representation costs hundreds of billions of dollars.

SUMMARY

Lack of representation compromises generalizability of clinical research findings to the whole U.S. population.

Lack of representation may lead to lack of access to effective medical interventions.

Report from the National Academies of Sciences, Engineering, and Medicine (2022)

SELECTED RECOMMENDATIONS

Reporting and Accountability

- Establish an **intradepartmental task force** on research equity
- **Journal** editors, publishers, and the ICMJE should **require information on the representativeness of trials**
- Require a **detailed recruitment** plan appropriately reflecting the demographics of the disease or condition

Federal Incentives

- **Enforce** existing **accountability measures**
- Expedite coverage decisions for drugs/devices that have been approved based on **representative development programs**
- **Incentivize community providers** to enroll and retain participants in clinical trials by reimbursing

Remuneration

- Ensure that trials provide **adequate compensation for research participants**
- Federal regulatory agencies should develop explicit guidance to direct local IRBs on **equitable compensation** to research participants and their caregivers.

Education, Workforce, and Partnerships

- Ensure a **diverse and inclusive workforce**, especially in leadership positions
- Leaders and faculty of academic medical centers should recognize research and professional efforts to advance **community engaged scholarship**
- Substantially **invest in community research infrastructure**



Reaction of the industry



Diversity and equity in our clinical trial research

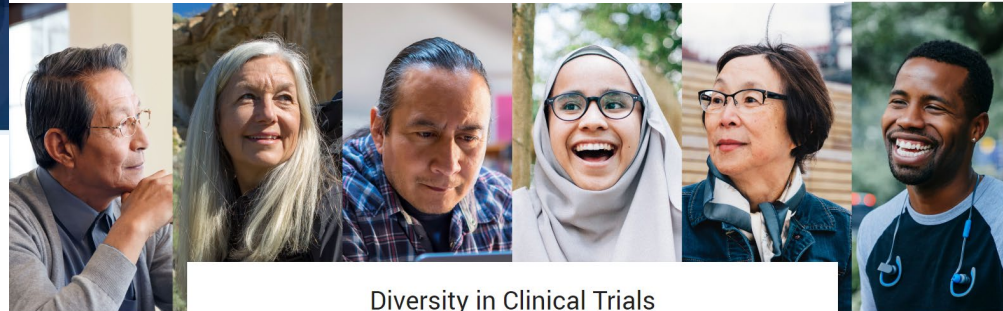


Diversity in Our Clinical



Home > Science > Clinical Trials > Clinical Trial Diversity and Representation

Clinical Trials



Diversity in Clinical Trials



CLINICAL TRIALS
EXPLORER

Diversity in Clinical Trials

Enhancing Diversity in Clinical Trials

At Bayer, we know there is strength in diversity - a value which is reflected in our commitment to our employees and the population we serve. Through our vision of "Health for all, hunger for none," we are committed to the goal of inclusive clinical trials that represent the diversity required to address the needs of all patients. To accomplish this, we are working with clinicians, research scientists, vendors, health authorities, ethics committees, and partners in patient engagement to ensure that our purpose of "Science for a Better Life" touches every life, regardless of race, ethnicity, sex/gender, age, or any other characteristic that may present a barrier to clinical trial participation.

A multitude of diversity plans exist across the industry, implementation is however lacking!

Conclusions

- There is **not much change in inclusion of women minority populations in CVD trials** over recent years
- **Increasing diversity among trial participants must be a top priority** in order to address health disparities and allow for optimal diagnosis and management of CVD in all
- **Increasing diversity in trial leadership** is one of the most important strategies **to increase diversity among RCT participants**
- Further efforts are urgently needed to **increase diversity in the cardiology workforce**, which will improve clinical trial diversity and cardiovascular health for all
- Approaches from the **whole scientific community** to tackle the inequality in workforce, trial leadership and trial participants have to be developed

THANK YOU FOR YOUR ATTENTION !



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