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Decentralized Clinical Trial (DCT) Strategies to Enhance Diversity and Inclusion of Underrepresented Patient Populations in Clinical Trials

Part of Life Science Strategy Group's Decentralized Clinical Trial (DCT) Strategies Series

Syndicated Publication

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About the Author



Life Science Strategy Group, LLC (LSSG) report authors draw upon extensive biopharmaceutical consulting and life science experience and backgrounds.

Jon Meyer, MSc, MBA

Mr. Meyer is a Founder and Managing Member with the Life Science Strategy Group, LLC (LSSG). Mr. Meyer leads LSSG's biopharmaceutical services consulting division which serves the leading global contract research organizations (CROs), contract drug manufacturing organizations, drug discovery and diagnostics companies globally across all phases of the biopharmaceutical discovery, development and commercialization lifecycle.

Mr. Meyer has managed consulting engagements in a variety of areas including strategic planning, opportunity assessments, pricing analyses, forecasting, brand awareness and equity assessments, competitive benchmarking, positioning and messaging strategy and clinical trial benchmarking and analysis.

Prior to LSSG, Mr. Meyer was a Director in the Life Sciences Division at Navigant Consulting, Inc. and conducted preclinical drug development in the department of inflammatory disease at Roche Bioscience. Mr. Meyer holds Masters Degrees in Biomedical Science and Business Administration.

Jon Meyer, MSc, MBA
Founder & Managing Member
Life Science Strategy Group, LLC
325 Sharon Park Drive, Suite 737
Menlo Park, CA 94025
Email: jmeyer@lifesciencestrategy.com
Tel: 408-666-5323

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Table of Contents

SAMPLE PAGES

I. Study Background	Page 5
II. Key Conclusions and LSSG Discussion	Page 8
III. Methodology	Page 18
IV. Detailed Findings - Clinical Trial Participant Perspective	Page 21
V. Detailed Findings - Non-Clinical Trial Participant Perspective	Page 33
VI. Respondent Demographics	Page 41
VII. About Life Science Strategy Group, LLC	Page 47

List of Figures

Rationale for Searching for a Clinical Trial	Page 22	Likelihood of Future Participation	Page 32
Source Where Patients First Learned About Their Clinical Trial	Page 23	Consideration of Participation in Clinical Trial	Page 34
Rationale for Joining Specific Clinical Trial	Page 24	Rationale for Consideration of Participation in Clinical Trial	Page 35
Trial Task Ease or Difficulty	Page 25	Rationale for Not Participating in Clinical Trials	Page 36
Impact on Clinical Experience	Page 26	Impact on Willingness for Future Participation	Page 37
Influential Factors in Trial Completion	Page 27	In-Home Element Preference	Page 38
Impact on Willingness for Future Participation	Page 28	Factors Impacting Clinical Trial Participation	Page 49
Attitudes Toward Future Participation	Page 29	Likelihood of Trial Participation	Page 40
Factors Impacting Clinical Trial Participation	Page 30	Respondent Demographics	Pages 42-46
Satisfaction with Clinical Trial	Page 31		

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I. Study Background

Study Background

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Historically, women and non-white racial groups in the US have been underrepresented in clinical trials, limiting the understanding of the safety and efficacy of new medical products. People of different backgrounds and experiences experience diseases differently, affecting the effectiveness of drugs, devices, biologics, and vaccines. Underrepresentation can perpetuate health inequalities and exacerbate disparities in health outcomes. Inclusion of diverse populations in clinical trials allows for a more complete understanding of safety and efficacy, improving health equity, and ensuring new medical products are beneficial to all people in need. Further, advances in decentralized clinical trials (DCTs) have the potential to improve accessibility, diversity, and retention of underrepresented groups in clinical trials by simplifying trial elements and moving trial activities to participants' homes and local surroundings.

This landmark report is our second in our Decentralized Clinical Trial Strategies series, includes 467 clinical trial participants and 553 members of the general public from the United States and Europe. The report explores differences among racial groups and gender on willingness to participate in clinical trials, attitudes towards decentralized clinical trials and their impact on patient satisfaction and participation.

In the report, Life Science Strategy Group also provides commentary and interpretation of the data, which reflects more than 20 years of experience consulting to many of the leading global biopharmaceutical companies, clinical development CROs and CRO industry analysts. As such, for the purposes of this report, we are looking through the lens of our clients – specifically, what is the level of diversity and inclusion of underrepresented populations in clinical trials today and how can DCT elements potentially enhance patient participation and retention in these populations in the future.

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III. Methodology

Methodology

The primary research for this report was fielded via an internet survey in February and March 2023 and draws over four hundred and fifty clinical trial participants (n=467) and over four hundred and fifty members of the general public (n=553) from the United States and Europe.

Clinical trial respondents participated in one or two clinical trials for a therapy in development in the past two years. They also had experience with a variety of clinical trial activities including both decentralized and traditional elements. Respondents from the general population had not participated in a clinical trial in the past two years. All study participants were prescreened by LSSG to ensure an accurate level of reflection upon their clinical trial (clinical trial respondents) or rationale for not participating (general population respondents). This included confirming consistency of answers for related questions, validation of companies, and knowledge-based quality control questions.

Clinical trial respondents were asked to provide information about the appeal of certain trial elements, and motivating factors for them joining their clinical trial. General population respondents were asked about their choice to have not participated in a clinical trial, and the influence of trial elements on their decision to participate in the future. To draw deeper conclusions, the data from this was segmented by race, gender, socioeconomic status, and insurance type. LSSG also included its experience and knowledge about the global biopharmaceutical and CRO industries, preferences and patient engagement practices.

All data analysis and reporting was performed by LSSG consultants.

Terminology and Segmentation

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Terminology

For the purposes of this report, the following clinical trial activities are considered digital clinical trial strategies/approaches:

- Telemedicine/telehealth calls with a doctor
- Keeping an electronic patient diary
- Wearing a device that collects data and transmits/uploads it to the internet (e.g., Fitbit, Apple Watch, continuous glucose monitor, etc.)
- Using a smartphone or tablet to record health information that is uploaded to the internet
- A nurse coming for an in-home visit during the trial
- A nurse coming for an in-home visit to administer treatment for the trial (e.g., an injection or IV infusion)
- Mailing treatment(s) for the trial mailed directly to the patient's house
- Logging into an online portal to participate in the trial
- Using online chat/support to ask questions and seek information
- Emailing a doctor

Racial categories are from the Office of Management and Budget (OMB) Standards: **White**, **Black or African American**, **Asian**, **American Indian or Alaska Native**, **Native Hawaiian or Other Pacific Islander**.

- For the purposes of this report, "Other" races includes American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Prefer not to Answer, and Other

Segmentation

Respondents were classified into the following segments:

- **Low-income:** respondents with a total household income of \$0 - \$30,000
- **Mid-income:** respondents with a total household income of \$31,000 - \$60,000
- **High-income:** respondents with a total household income of \$91,000+

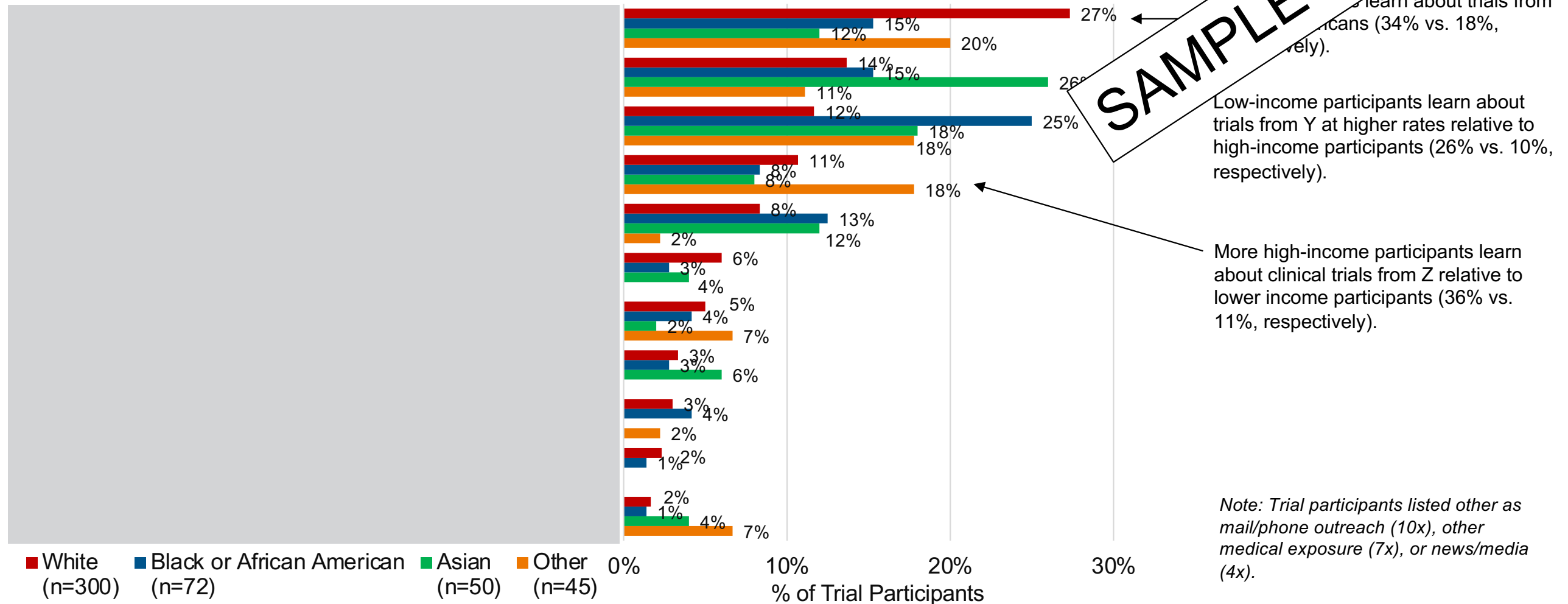
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IV. Detailed Findings – Clinical Trial Participants

Where people first learn about clinical trials varies by race; most White and "Other" participants learn about trials from A, Asians find trials through B, and Black or African Americans find trials through C.

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Source Where Patients First Learned About Their Clinical Trial



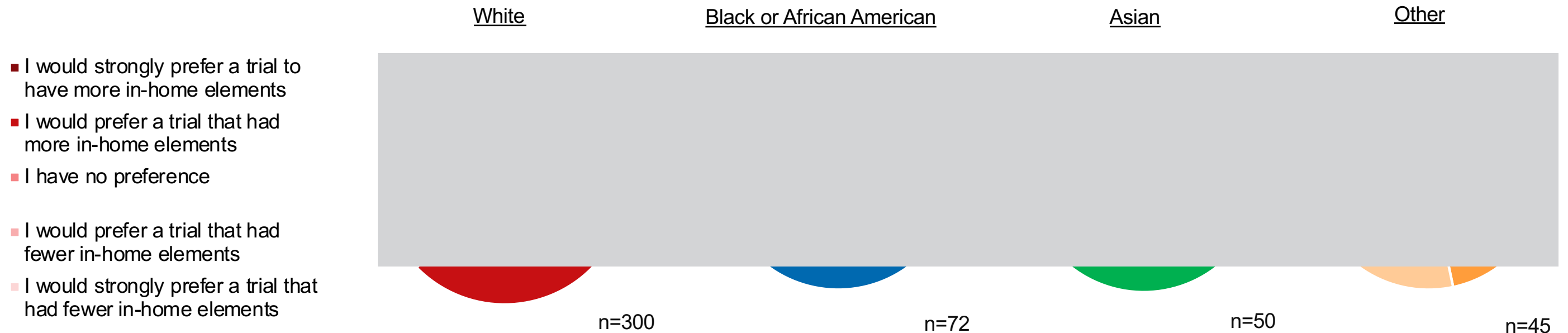
An omnichannel approach to patient-directed outreach, education, and promotional materials including A, B, and C can maximize awareness of trials across races.

A, B, and C populations prefer/strongly prefer trials with more in-home elements compared to D (>X% of respondents vs. Y%, respectively)

- X respondents have a stronger preference for trials with in-home elements than Y (69% vs. 41%, respectively).
- A have no preference (55%), while both B and C have a stronger preference towards trials with in-home elements (69% vs. 41%, respectively).

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Attitudes Toward Future Participation



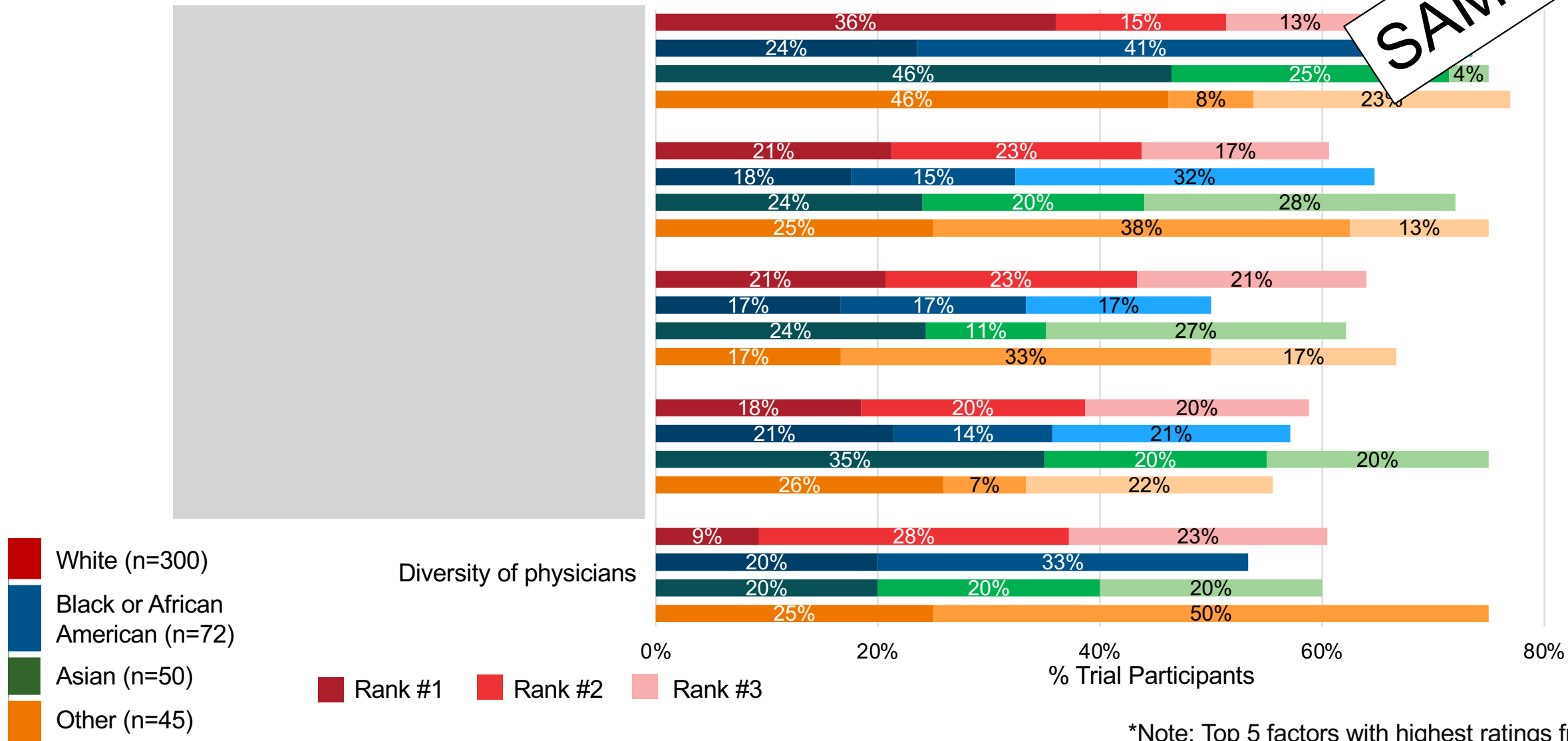
Clinical trial outreach should emphasize X to drive greater participation.

X is the most important factor impacting clinical trial participation across all races; Asian patients show preference to Y while “Other” patients desire Z when considering trial participation.

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- X is ranked in the top-3 as most important for private insurance users at a higher rate than those with Medicaid (71% v. 60% respectively).

Factors Impacting Clinical Trial Participation



Note: Trial participants listed friendliness, ease of participation, convincing evidence, screening process, and lack of blood draws as “other.”

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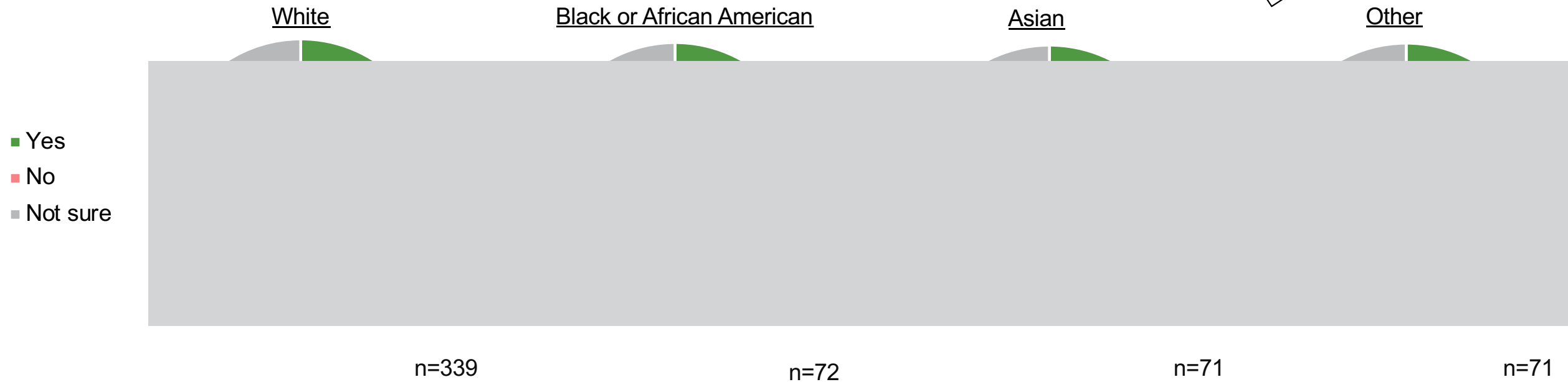
V. Detailed Findings - Clinical Trial Non-Participants

More A and B consider participating in clinical trials (X%) than C (Y%).

- A lower percentage of A consider participation in a clinical trial when compared to B and C (45% vs 59% and 59%, respectively).

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Consideration of Participation in Clinical Trial



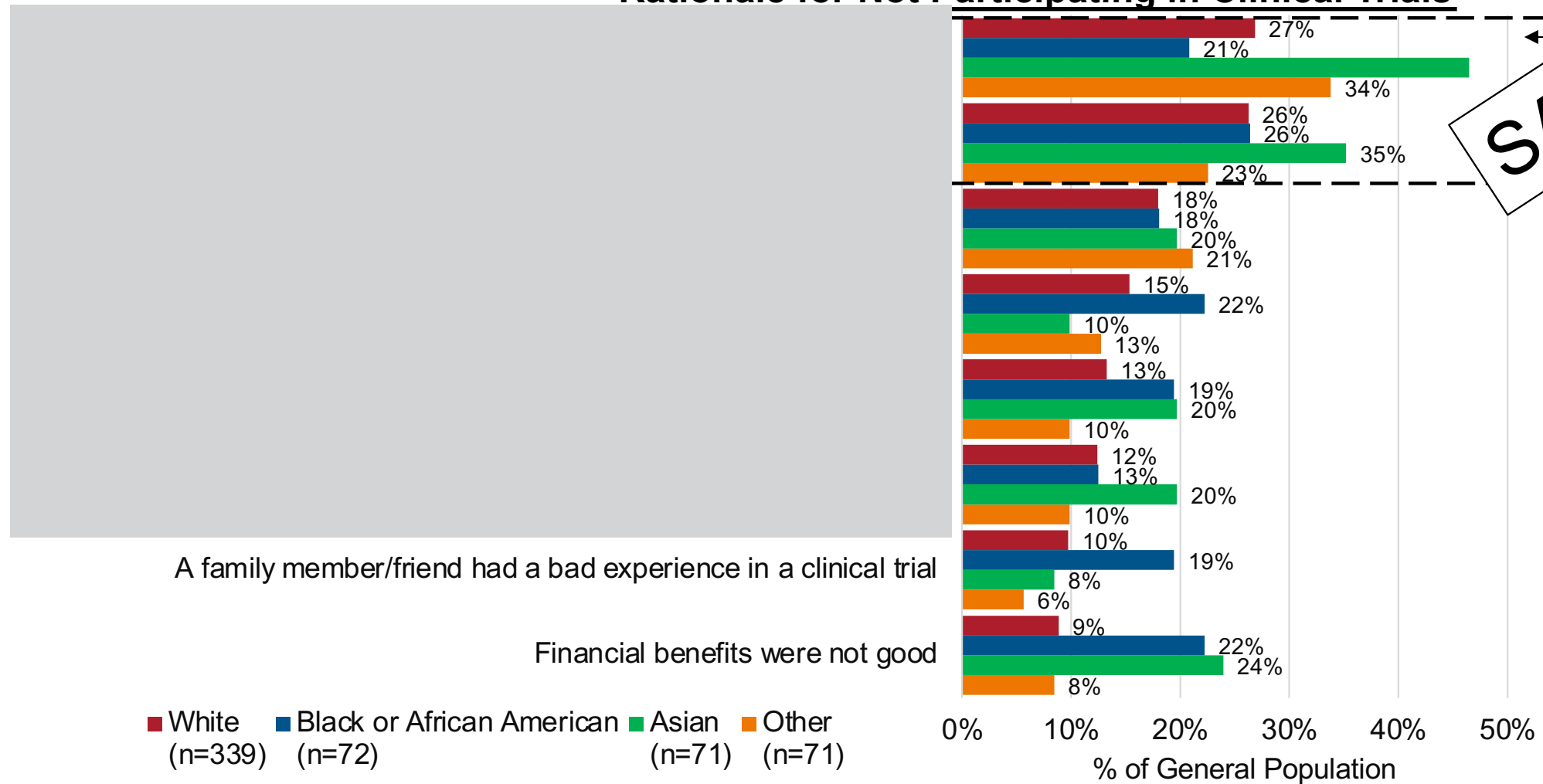
“Other” includes American Indian or Alaska Native (18%), Native Hawaiian or Other Pacific Islander (4%), Other (66%), Prefer not to answer (11%)

Patient recruitment teams should X among the Asian and “Other” populations.

The primary reasons for non-participation in clinical trials, particularly among X, are concerns related to A and C.

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Rationale for Not Participating in Clinical Trials



respondents are concerned over the X compared to low-income respondents (50% vs. 16%, respectively).

Private insurance users are also more concerned over Y compared to Medicare and Medicaid users (50% vs. 29% and 28%, respectively).

Providing A and B can help to assuage clinical trial safety concerns among non-participants.

Note: The general population also noted they did not fit criteria (4x), lack of availability (3x), none in area that they qualified for (2x), lack of transportation, allergic to medication, death of family member.

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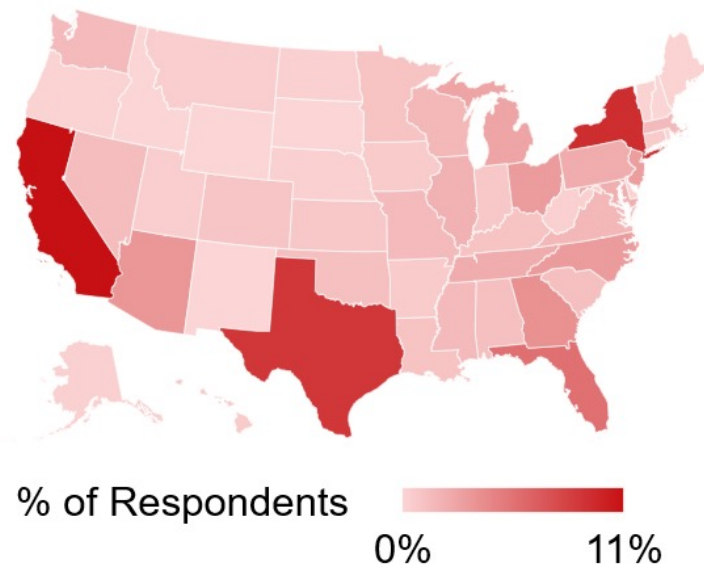
VI. Respondent Demographics

Respondent Demographics

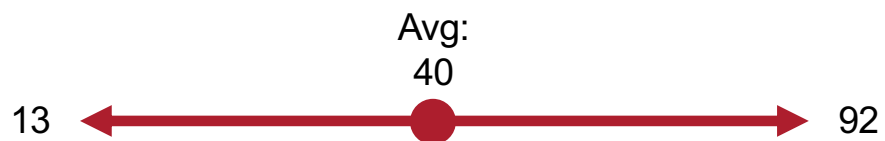
- A total of 1020 respondents participated in LSSG's online quantitative survey.
- **63%** (n=647) of respondents were in North America and **37%** (n=373) in Europe.

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State Representation

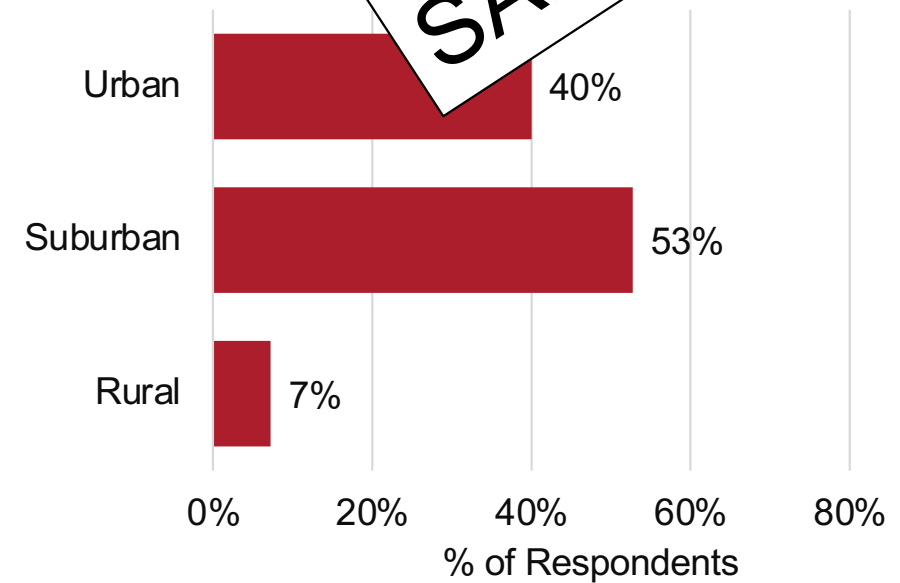


Age Range (Years)

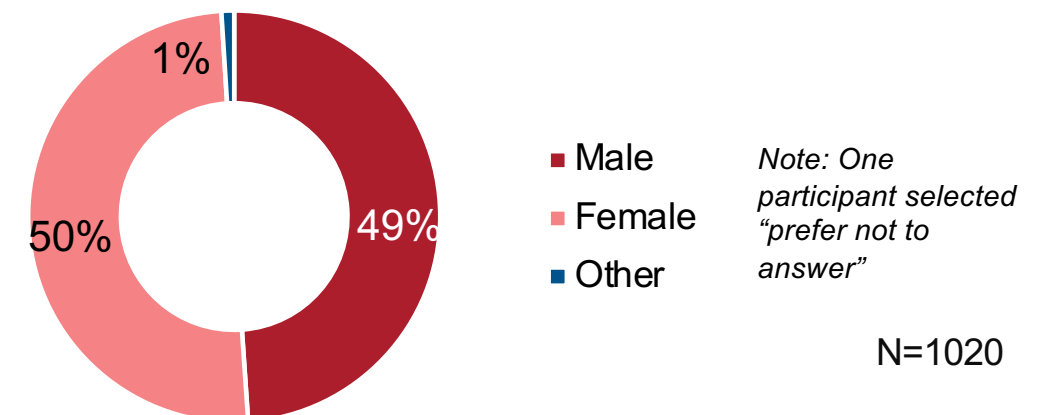


- S1. Where are you located?
- S2. What state do you live in? (Note: if from Canada, put N/A)
- S3. What best describes where you live?
- S4. How old are you?
- S5. With which gender do you identify?

Community Type



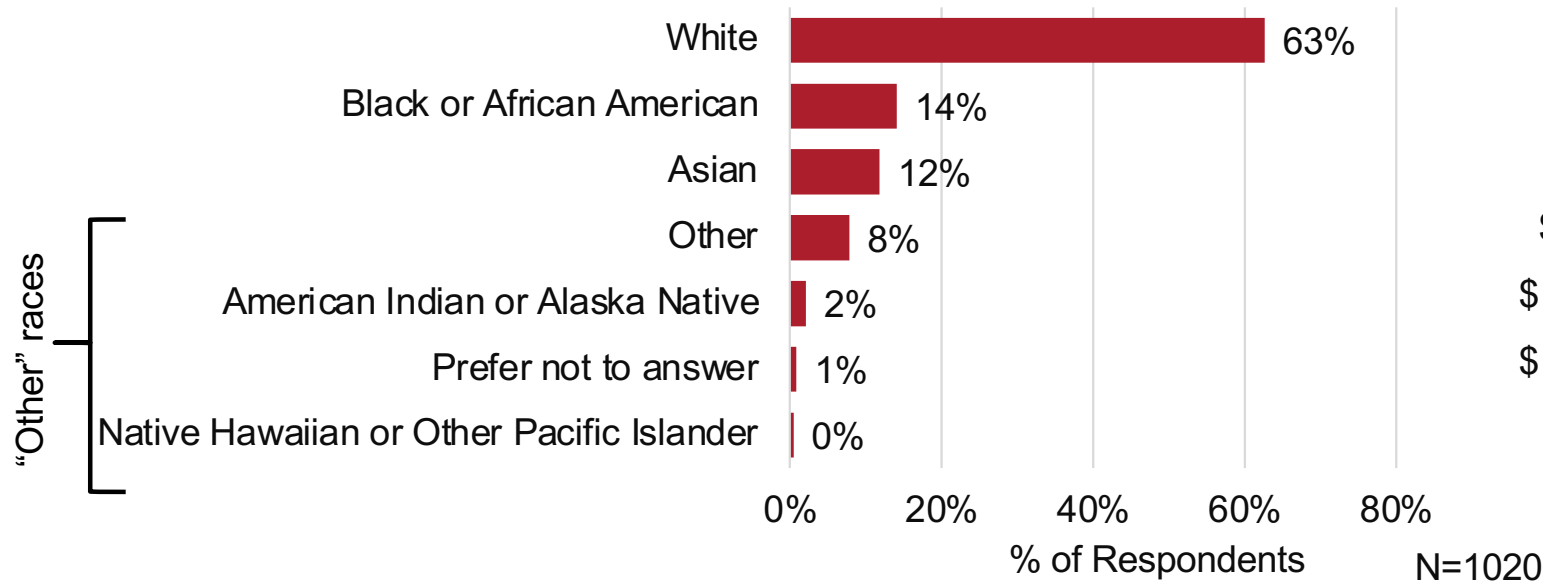
Gender



Respondent Demographics

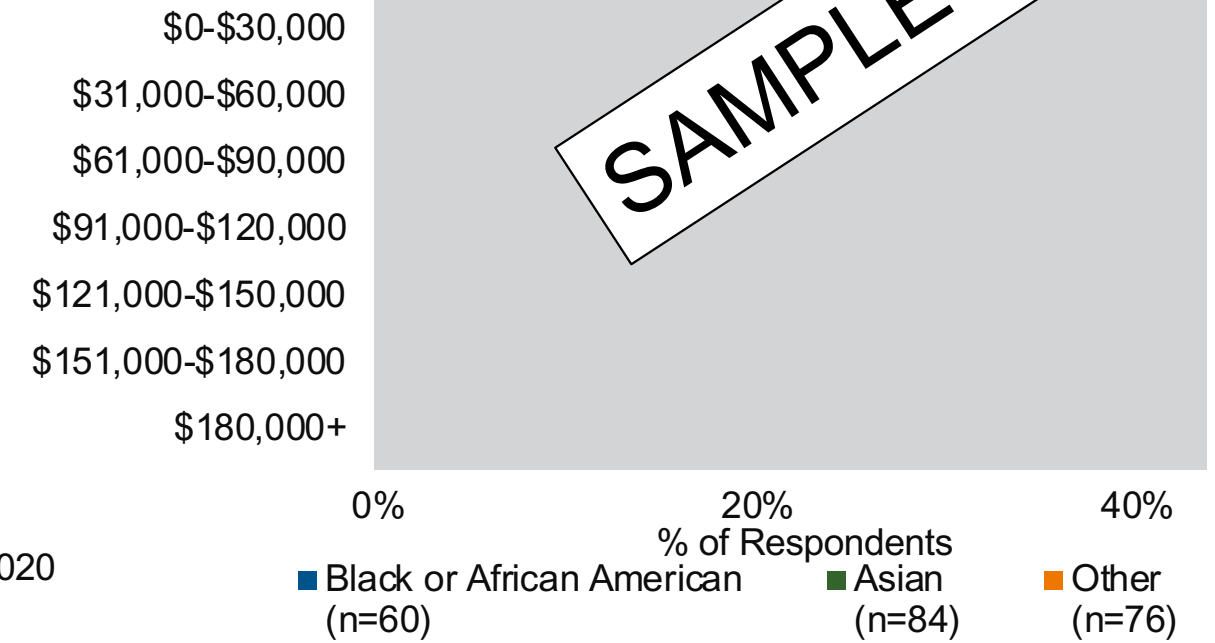
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Racial Categories

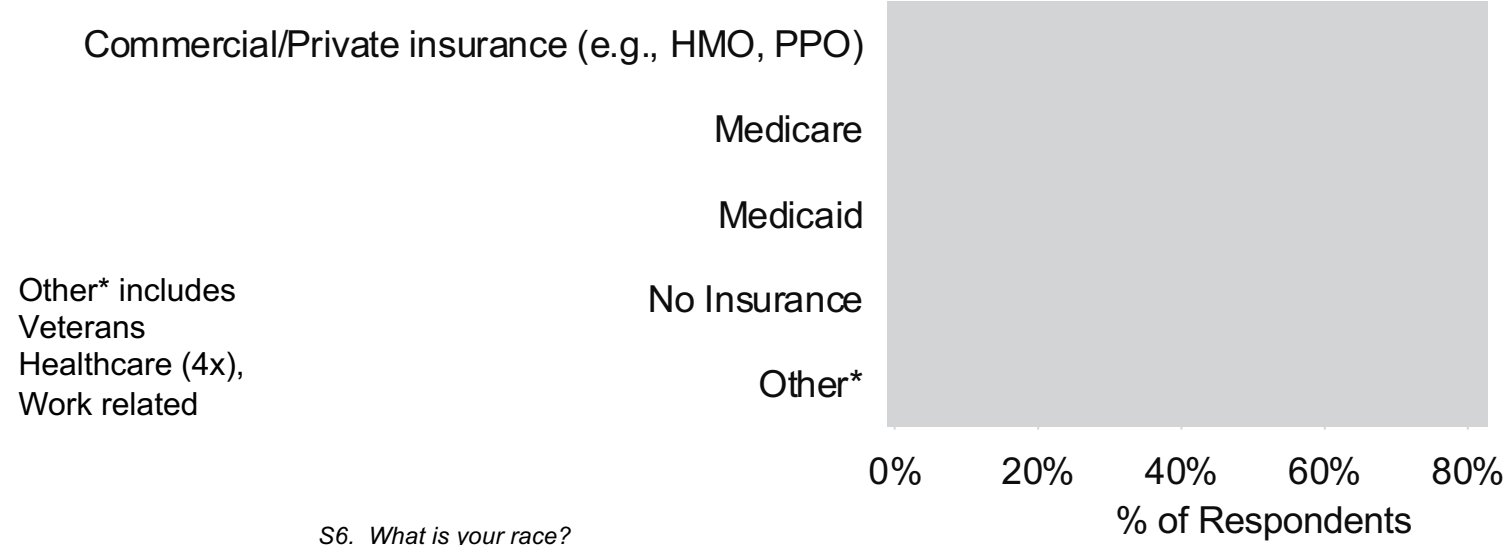


“Other” races

Household Income



Insurance Type

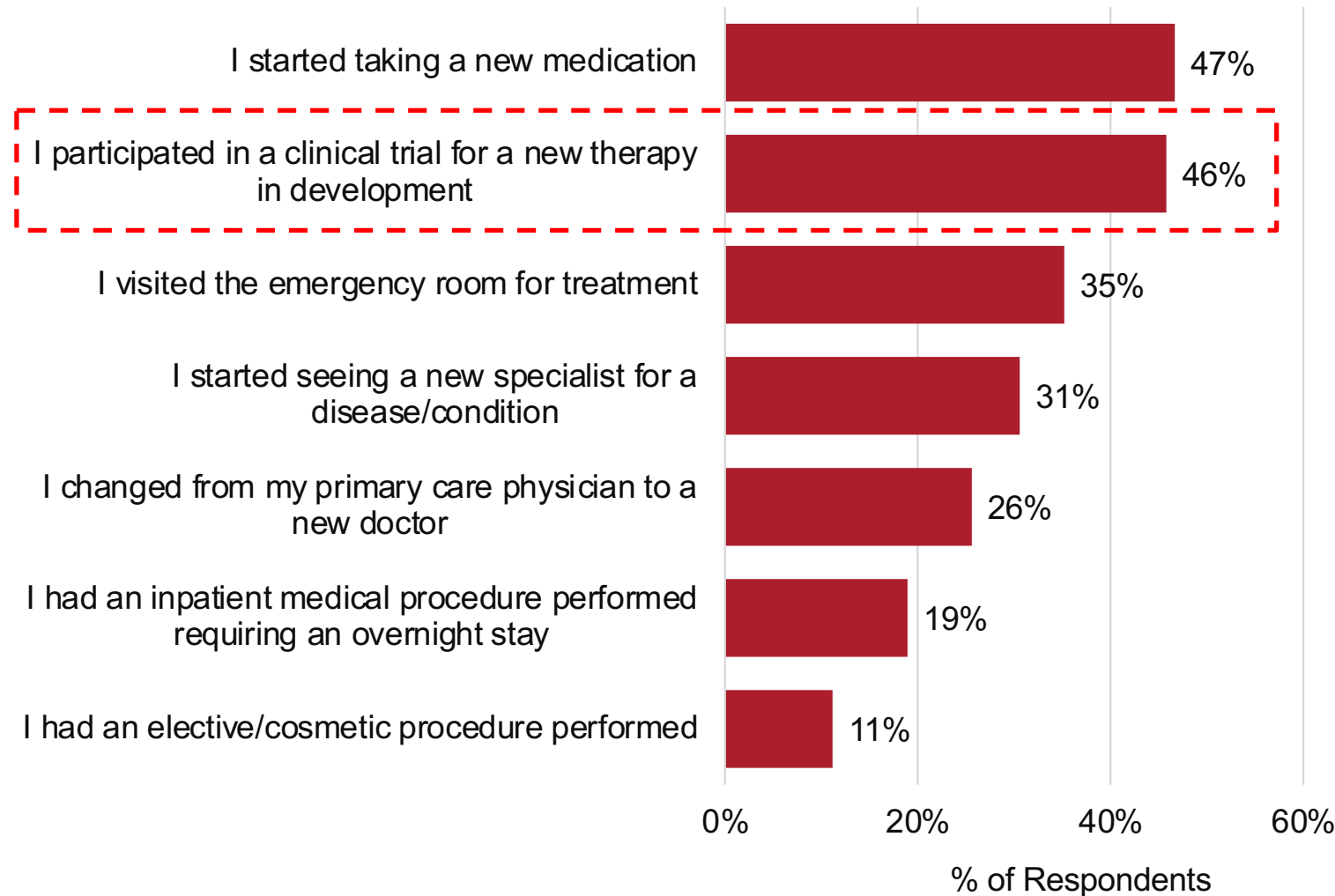


Other* includes Veterans Healthcare (4x), Work related

Respondents with income \$0-\$30,000 classified as “low-income”, \$31,000-\$90,000 as “mid-income”, and \$91,000+ as “high-income”

Respondent Demographics

Activities Participated In Over Past 2 Years



Number of Clinical Trials Participated In Over Past 2 Years

