



NATIONAL LGBTQIA+ HEALTH
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COVID-19 Webinar Series: Status of clinical trials and the roll out of the vaccine

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Kenneth H. Mayer, M.D. and Bisola Ojikutu, M.D., M.P.H.
February 18th, 2021

Our Roots

Fenway Health

- Independent 501(c)(3) FQHC
- Founded 1971
- Mission: To enhance the wellbeing of the LGBTQIA+ community as well as people in our neighborhoods and beyond through access to the highest quality health care, education, research, and advocacy
- Integrated primary care model, including HIV and transgender health services

The Fenway Institute

- Research, Education, Policy



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WWW.LGBTQIAHEALTHEDUCATION.ORG

LGBTQIA+ Education and Training

The National LGBTQIA+ Health Education Center offers educational programs, resources, and consultation to health care organizations with the goal of providing affirmative, high quality, cost-effective health care for lesbian, gay, bisexual, transgender, queer, intersex, asexual, and all sexual and gender minority (LGBTQIA+) people.

- Training and Technical Assistance
- Grand Rounds
- Online Learning
 - Webinars, Learning Modules
 - CE, and HEI Credit
- ECHO Programs
- Resources and Publications

www.lgbtqiahealtheducation.org



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- Please call Zoom Technical Support: 1.888.799.9666 ext 2
- You can contact the webinar host using the chat function in Zoom. Click the “Chat” icon, and type your question.
- Alternatively, e-mail us at education@fenwayhealth.org for less urgent questions.



Sound Issues?

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- Choose “I will call in.”
- Dial the phone number and access code.

When the webinar concludes:

- Close the browser, and an evaluation will automatically open for you to complete.
- We very much appreciate receiving feedback from all participants.
- Completing the evaluation is required to obtain a CME/CEU certificates.

CME/CEU Information

This activity has been reviewed and is acceptable for up to 1.0 Prescribed credits by the American Academy of Family Physicians. Participants should claim only the credit commensurate with the extent of their participation in this activity.

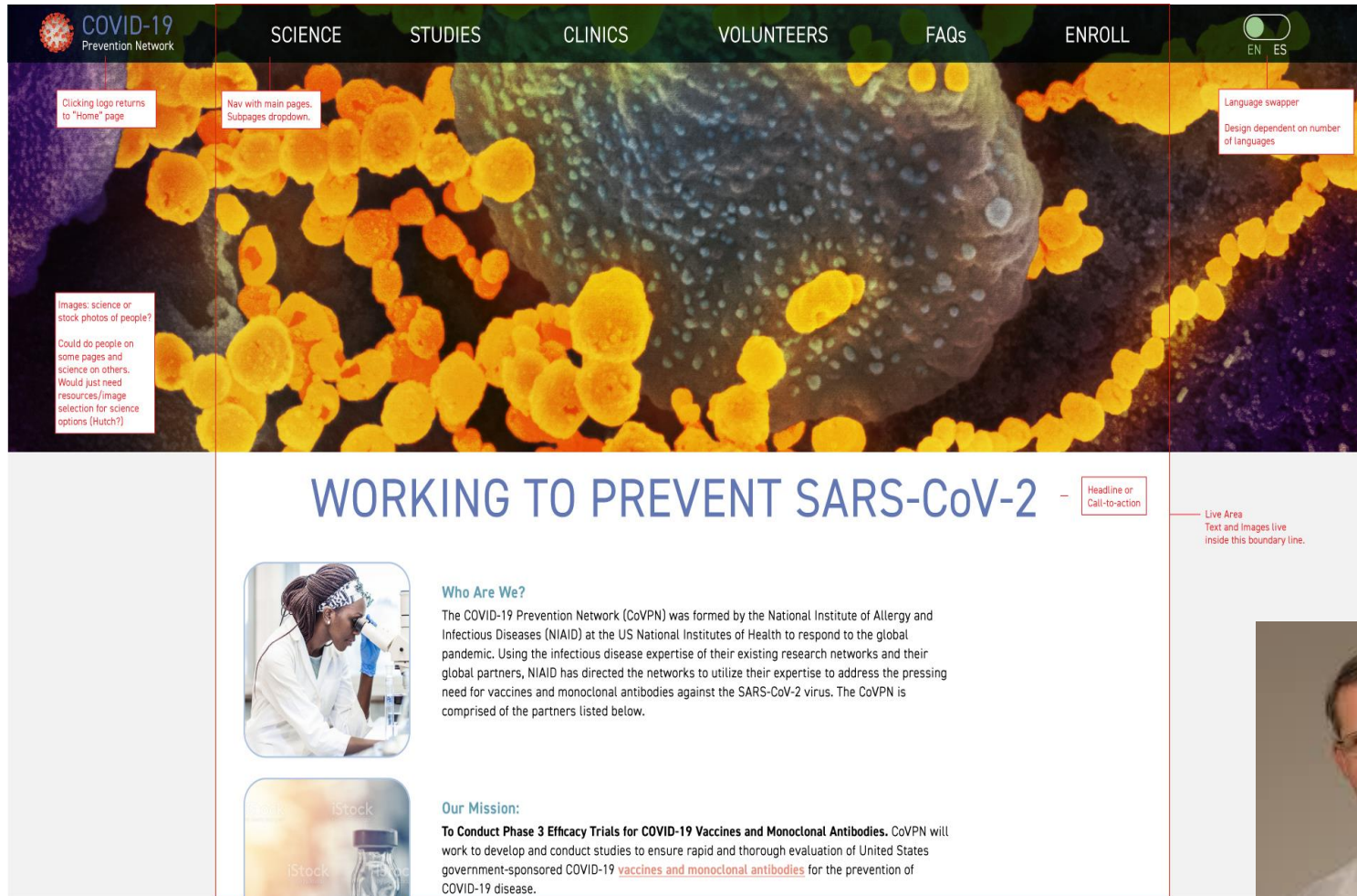
Physicians	AAFP Prescribed credit is accepted by the American Medical Association as equivalent to AMA PRA Category 1 Credit™ toward the AMA Physician's Recognition Award. When applying for the AMA PRA, Prescribed credit earned must be reported as Prescribed, not as Category 1.
Nurse Practitioners, Physician Assistants, Nurses, Medical Assistants	AAFP Prescribed credit is accepted by the following organizations. Please contact them directly about how participants should report the credit they earned. <ul style="list-style-type: none">• American Academy of Physician Assistants (AAPA)• National Commission on Certification of Physician Assistants (NCCPA)• American Nurses Credentialing Center (ANCC)• American Association of Nurse Practitioners (AANP)• American Academy of Nurse Practitioners Certification Program (AANPCP)• American Association of Medical Assistants (AAMA)
Other Health Professionals	Confirm equivalency of credits with relevant licensing body.

Learning Objectives:

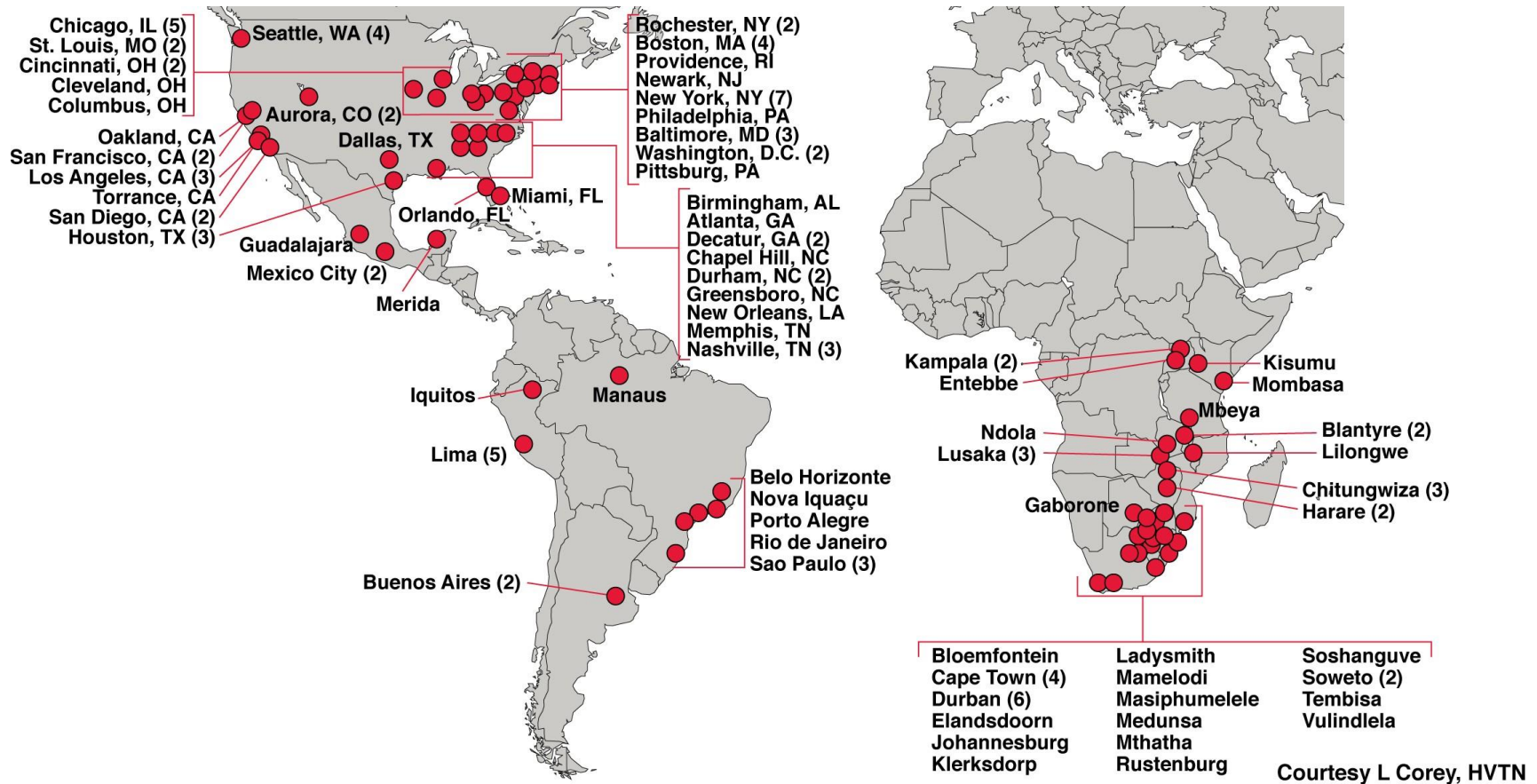
- In this webinar session, participants will:
 1. Discuss the state of the COVID-19 vaccine trials and considerations for vaccine distribution.
 2. Discover how medical mistrust affects COVID-19 outcomes, particularly for patients in ethnic and racial minority groups.
 3. Explore strategies for responding to medical mistrust and engaging in outreach to improve equitable distribution of the COVID-19 vaccine.

CoVPN Website

www.coronaviruspreventionnetwork.org



CoVPN Clinical Sites



Courtesy L Corey, HVTN



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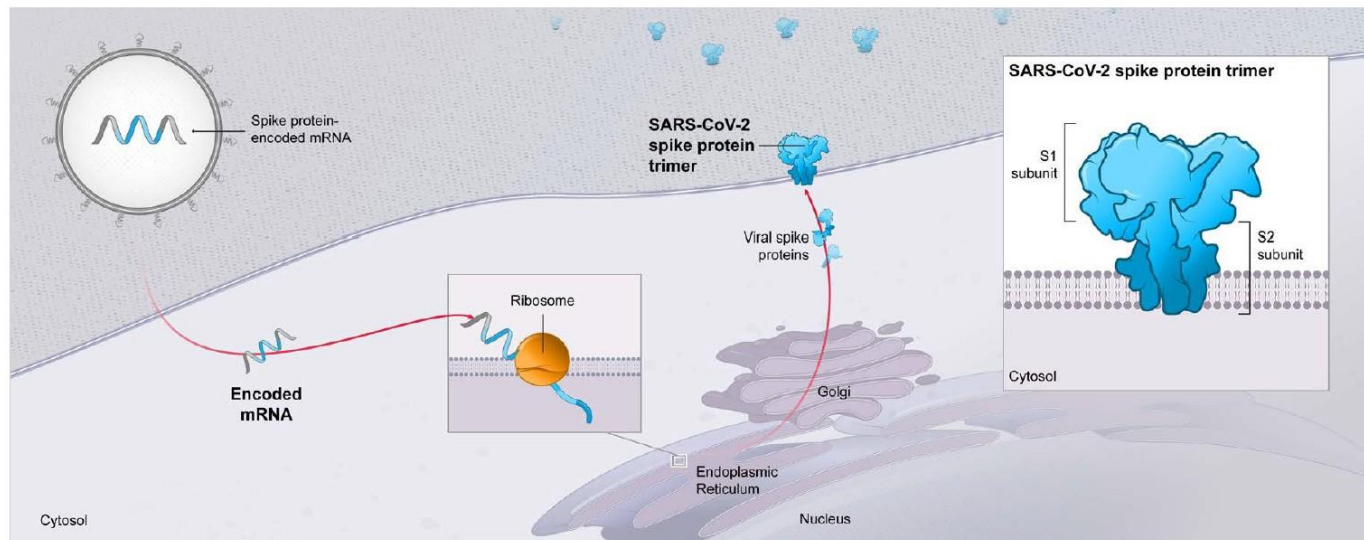
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COVID-19 Vaccine Trials

- Pfizer-BioNtech mRNA, FDA approved (2 shots/3 weeks apart, very cold storage)-done
- Moderna mRNA, close to FDA approval (2 shots/4weeks apart, cold storage)-done
- AstraZeneca Adenovirus, enrolled, data soon (2 shots/ 4wks apart, easier storage, cheaper)
- Janssen Adenovirus, recently completed (1 shot)
- Novovax protein, enrolling (2 shots/ 4 wks)
- Sanofi-GSK protein, needs to be retooled

mRNA-1273 encodes for the full-length Spike Protein in the Pre-fusion Conformation (S-2P)



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Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:
<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/02-COVID-Miller.pdf>

More about the vaccine

- ▶ Pfizer clinical trials:
 - 40,000 trial participants
 - 10,000 Latinx/Hispanic
 - 3,500 African-American
 - 1,600 Asian
- Comorbidities
 - Obesity
 - Diabetes
 - Respiratory
 - Cardiac



Phase 3 Study: Moderna COVID-19 Vaccine

Study 301: Primary Efficacy Objective Met, VE Against Confirmed, Symptomatic COVID-19 Cases is > 94%

Per Protocol

Confirmed, Symptomatic COVID-19 Cases	Primary Efficacy Analysis	
	mRNA-1273 N=14,134	Placebo N=14,073
Number of cases, n (%)	11 (< 0.1%)	185 (1.3%)
Vaccine efficacy based on hazard ratio (95% CI)	94.1% (89.3%, 96.8%)	
p-value	< 0.0001	
Incidence rate per 1000 person-years	3.3	56.5

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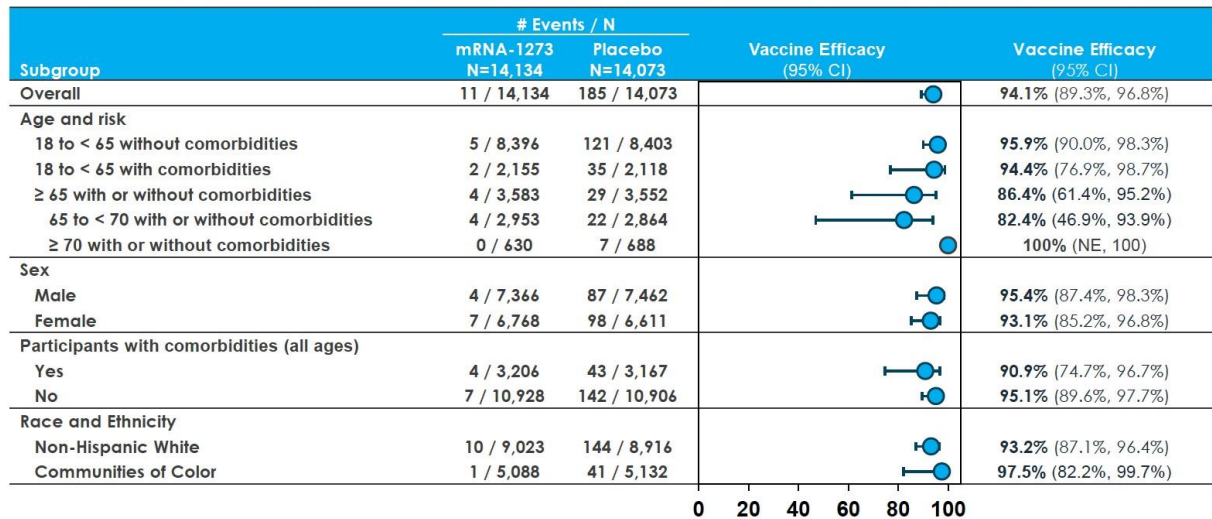
Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:

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Phase 3 Study: Moderna COVID-19 Vaccine

Study 301: Subgroup Analyses of Efficacy are Consistent with Primary Analysis

Per Protocol — Primary Efficacy Analysis



NE: not estimable

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Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:

<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/02-COVID-Miller.pdf>



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Phase 3 Study: Moderna COVID-19 Vaccine

Study 301 Secondary Efficacy Endpoint:
Cases of Confirmed Severe COVID-19

Per Protocol

Confirmed, Severe COVID-19 Cases	Primary Efficacy Analysis	
	mRNA-1273 N=14,134	Placebo N=14,073
Number of cases, n (%)	0 (0%)	30 (0.2%)
Vaccine efficacy based on hazard ratio (95% CI)	100% (NE, 100%)	
Incidence rate per 1000 person-years	0	9.1
<ul style="list-style-type: none">• One participant death due to COVID-19 in the placebo group• Given the high efficacy against severe disease, no evidence for vaccine-associated enhanced disease was observed		

One potential case of severe disease was reported in the mRNA-1273 group after data cut-off for the primary efficacy analysis, this case has yet to be adjudicated.

NE: not estimable

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Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:
<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/02-COVID-Miller.pdf>

Phase 3 Study: Moderna COVID-19 Vaccine

Study 301: Summary of COVID-19 Cases Within 6 Weeks After Randomization Based on CDC Case Definition¹

mITT Population – Interim Analysis

	mRNA-1273 N=14,550 n	Placebo N=14,598 n
From randomization to 14 days post 1 st dose	5	11
From 14 days post 1 st dose to 2 nd dose	3	34
From 2 nd dose to 14 days post 2 nd dose	0	17
Total	8	62

Data suggest protection may begin prior to dose 2

¹ One clinical symptom from an expanded list and a nasopharyngeal swab positive for SARS-CoV-2 virus

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Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:

<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/02-COVID-Miller.pdf>



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Phase 3 Study: Moderna COVID-19 Vaccine

Study 301: Summary of Asymptomatic SARS-CoV-2 Infections as Measured by Scheduled NP Swabs Prior to 2nd Dose
Per Protocol — Primary Efficacy Analysis

RT-PCR NP Swab Results	mRNA-1273 N=14,134		Placebo N=14,073	
	n	%	N	%
No documented COVID-19 symptoms between 1 st dose and 2 nd dose	14	0.1%	38	0.3%

Data suggestive of efficacy for prevention of asymptomatic infection

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Miller, Jacqueline. Overview of Moderna's COVID-19 Vaccine(mRNA-1273). Available at:
<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/02-COVID-Miller.pdf>



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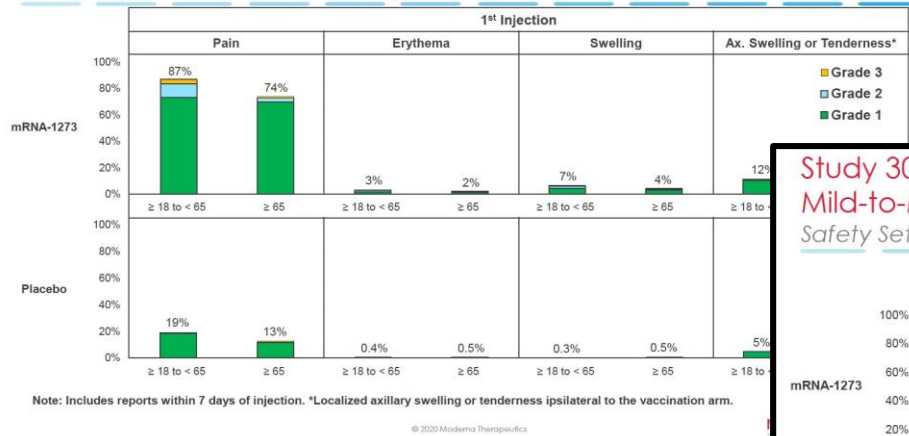
More about the vaccine

- ▶ Pfizer side effects
 - 91.6% injection site pain
 - 68.5% fatigue
 - 63.0% headache
 - 59.6% muscle pain
- No anaphylactic or severe hypersensitivity reactions

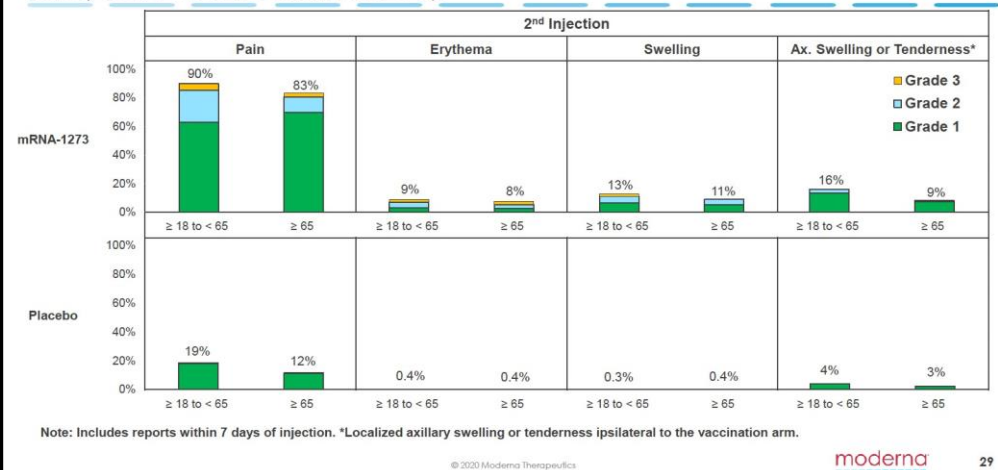


Phase 3 Study: Moderna COVID-19 Vaccine

Study 301: Most Solicited Local Adverse Reactions Were Mild-to-Moderate (1st Injection)
Safety Set, 9-Week Median Follow-up



Study 301: Most Solicited Local Adverse Reactions Were Mild-to-Moderate (2nd Injection)
Safety Set, 9-Week Median Follow-up

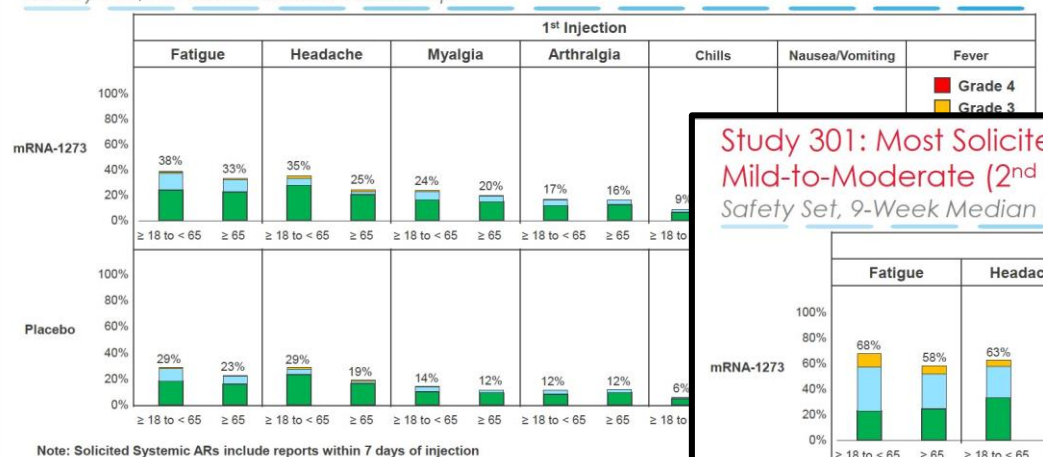


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Phase 3 Study: Moderna COVID-19 Vaccine

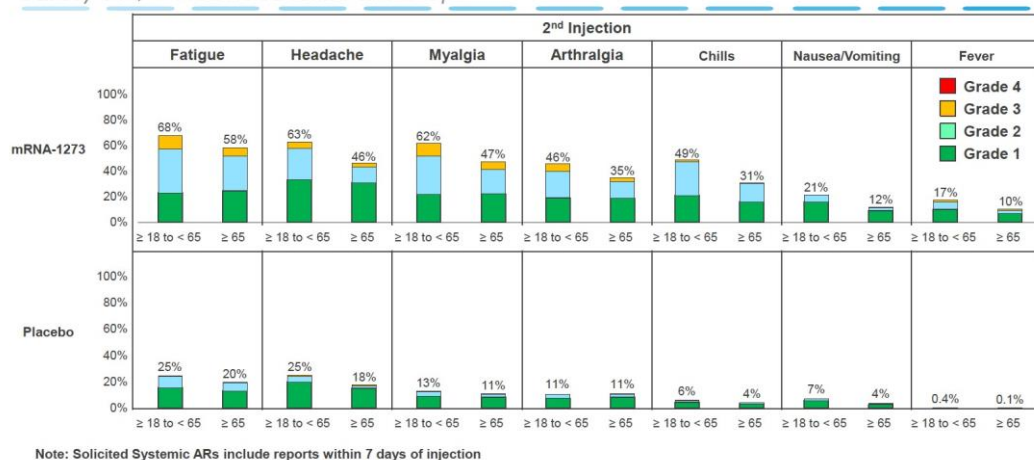
Study 301: Most Solicited Systemic Adverse Reactions Were Mild-to-Moderate (1st Injection)

Safety Set, 9-Week Median Follow-up



Study 301: Most Solicited Systemic Adverse Reactions Were Mild-to-Moderate (2nd Injection)

Safety Set, 9-Week Median Follow-up



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Vaccine Associated Anaphylaxis

- 12/20: 6 case reports of anaphylaxis following Pfizer-BioNTech vaccine
 - One case had a history of anaphylaxis following rabies vaccination
- Overall rate now with both vaccines (1/21): 6.1/100,000
 - 89% within 30 minutes
 - 83% prior allergy
 - More common in women
 - Not sure what is the allergen, many suspect PEG



MODERNA COVID-19 VACCINE

PREGNANT PERSONS

- No data on safety
- mRNA vaccines and pregnancy
 - Not live vaccines
 - Degraded quickly by normal cellular processes and do not enter nucleus of cell
- COVID-19 and pregnancy
 - Increased risk of severe illness
 - May be increased risk of adverse pregnancy outcomes (e.g. preterm birth)
- If a person is a part of a group (e.g., HCP) recommended to receive a COVID-19 vaccine and is pregnant, the individual may choose to be vaccinated
 - Encourage informed decision making in consultation with HC provider

[Interim Clinical Considerations for Use of mRNA COVID-19 Vaccines Currently Authorized in the United States](#)



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MODERNA COVID-19 VACCINE

BREASTFEEDING/ LACTATING PERSONS

- No data on safety in lactating women or the effects of mRNA vaccines on breastfed infant or milk production/excretion
- mRNA vaccines not considered live virus vaccines – not thought to be a risk to the breastfeeding infant
- If a lactating person is part of a group (e.g. HCP) recommended to receive a COVID-19 vaccine, they may choose to be vaccinated

[Interim Clinical Considerations for Use of mRNA COVID-19 Vaccines Currently Authorized in the United States](#)



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COVID-19 Vaccine Trials in Children




- Pfizer enrolled age 16 and above
- Moderna - 18 and up
- So those are the FDA-approved EUA indications
- Most companies now doing efficacy studies of 12 and up either in US or Europe
- Many are planning studies for <12 years old



SARS-CoV-2 Variants

- In the United Kingdom (UK), a new variant known as 20B/501Y.V1, VOC 202012/01, or B.1.1.7 lineage emerged with a large number of mutations, some affecting the spike protein.
- This variant has since been detected in numerous countries around the world, including the US.
- In South Africa, another variant: 20C/501Y.V2 or B.1.351 lineage emerged independently, but shares some mutations with the B.1.1.7 lineage. Cases attributed to this variant have been detected outside of South Africa.
- Lab experiments suggest that vaccines should work vs. these variants, but at least one monoclonal antibody seemed less effective vs. the South African variant.
- Implications: need enhanced surveillance, continued NPI, and rapid scaling up of vaccinations.

SARS-CoV-2 Variants

Variant	Country Initially Reporting	Features
B.1.1.7		Potential Increased Transmissibility Vaccine Effects May Be Slightly Diminished Convalescent Plasma Diminished Effect Monoclonal Antibody Resistance Present
B.1.351		Potential Increased Transmissibility Vaccine Induced Antibodies May be Moderately Diminished Convalescent Plasma Diminished Effect Monoclonal Antibodies May Be Severely Diminished
P.1		Testing Pending

[CDC.gov](https://www.cdc.gov)

Key Resources

- [COVID-19 Vaccine Overview/Cheat Sheet on Platforms and Products](#)
 - [Pfizer](#)
 - [Patient Fact Sheet](#)
 - [Provider Fact Sheet](#)
 - [Moderna](#)
 - [Patient Fact Sheet](#)
 - [Provider Fact Sheet](#)
- [Advocates Guide to the risks, benefits, and potential opportunities and complications of expedited COVID-19 vaccine research](#)
- [Regulatory Approval Primer for Vaccine Advocates](#)



Key Resources

- [*New York Times* Coronavirus Vaccine Tracker](#)
- [US FDA Guidance Document for Development and Licensure of Vaccines to Prevent COVID-19](#)
- [COVID-19 Pipeline](#)
- [COVID-19 Mythbusters](#)
- [COVID-19 Resources](#)
- **More resources at** <https://www.avac.org/covid>

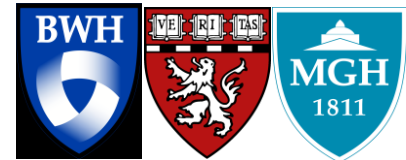


Promoting Uptake of COVID-19 Vaccines among Communities of Color in the US

Bisola Ojikutu MD MPH

**Division of Global Health Equity and Division of Infectious
Diseases, BWH**

Infectious Disease Division, MGH



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Racial and Ethnic Disparities and COVID-19

Rate ratios compared to White, Non-Hispanic persons	American Indian or Alaska Native, Non-Hispanic persons	Asian, Non-Hispanic persons	Black or African American, Non-Hispanic persons	Hispanic or Latino persons
Cases ¹	1.8x	0.6x	1.4x	1.7x
Hospitalization ²	4.0x	1.2x	3.7x	4.1x
Death ³	2.6x	1.1x	2.8x	2.8x

<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/investigations-discovery/hospitalization-death-by-race-ethnicity.html>

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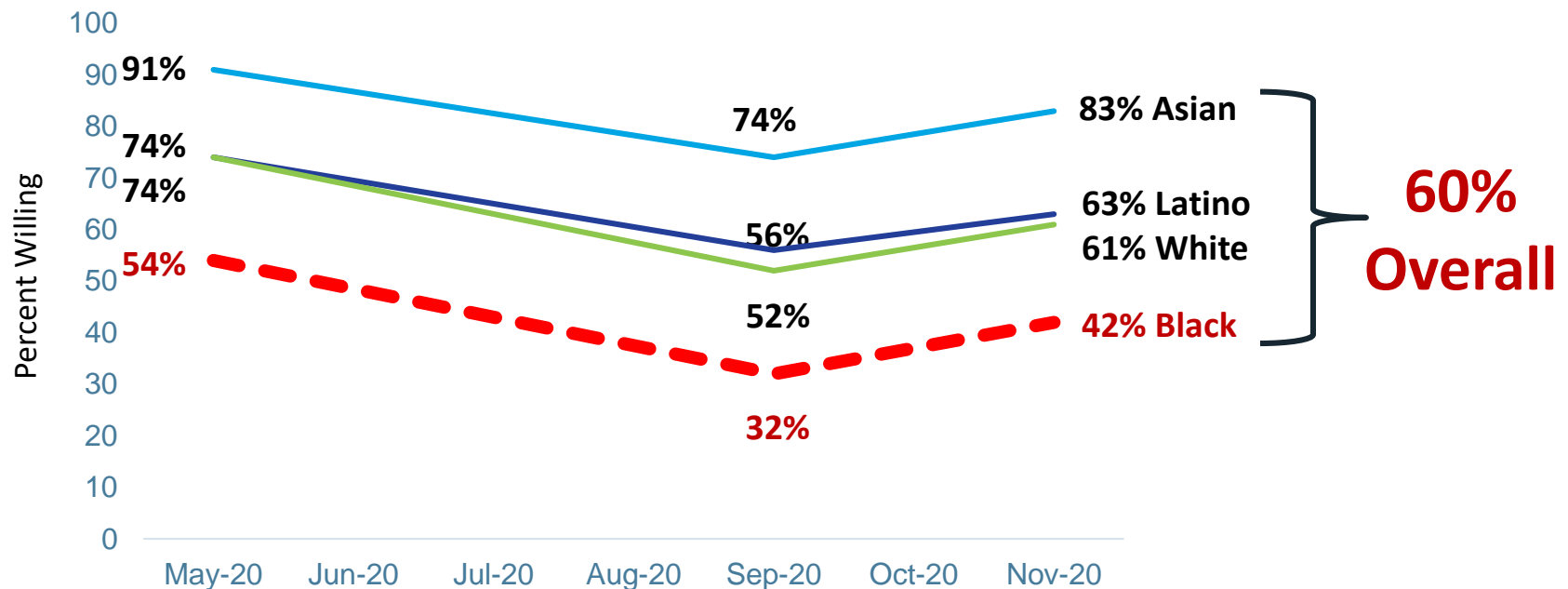
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<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/investigations-discovery/hospitalization-death-by-race-ethnicity.html>

Willingness to Take a COVID-19 Vaccine

by race and ethnicity



<https://www.pewresearch.org/science/2020/12/03/intent-to-get-a-covid-19-vaccine-rises-to-60-as-confidence-in-research-and-development-process-increases/>

Suboptimal Vaccine Uptake by Race and Ethnicity

	Overall	White	Black	Latinx	Indigenous
Seasonal Influenza Vaccination (≥ 18)	49%	53%	41%	38%	42%

CDC. Influenza Vaccination Coverage, 2019-2020

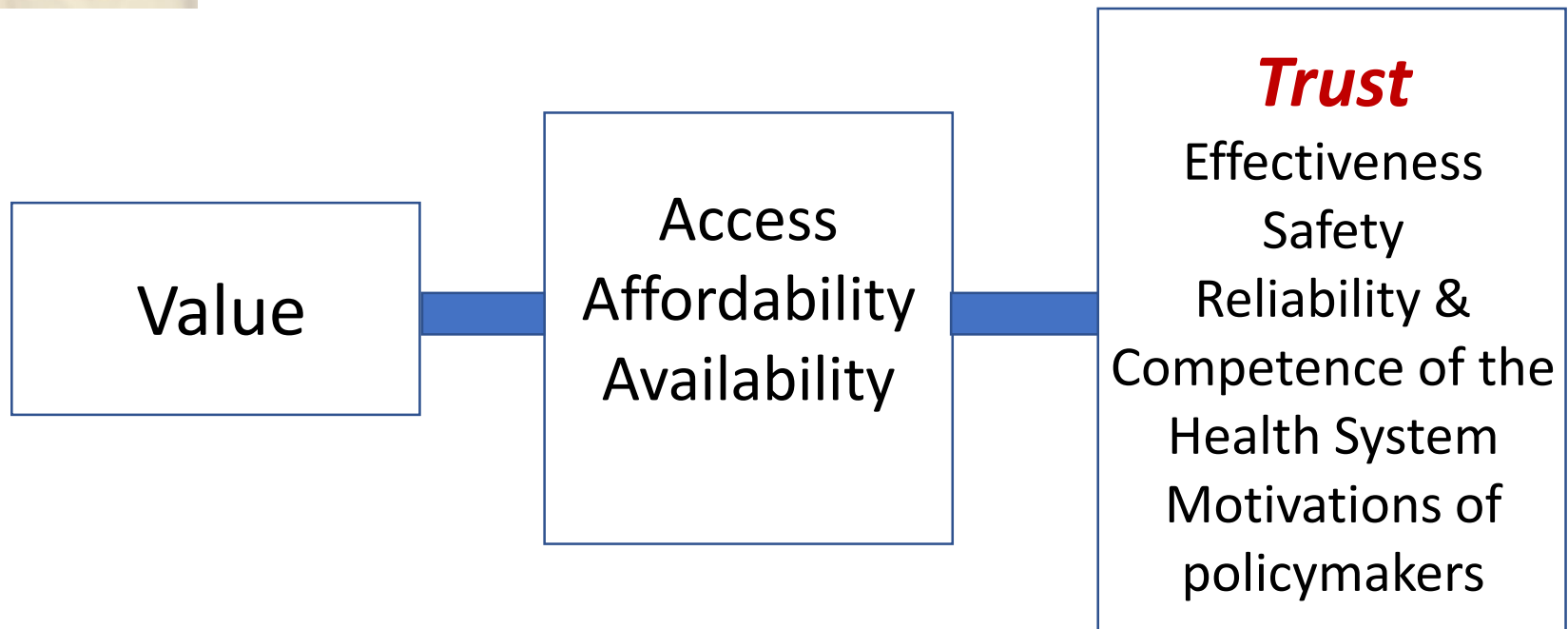
Suboptimal Vaccine Uptake by Race and Ethnicity

	Overall	White	Black	Latinx	Indigenous
Seasonal Influenza Vaccination (≥18)	49%	53%	41%	38%	42%
Pneumococcal Vaccination (≥65)	72%	75%	60%	60%	

CDC. Influenza Vaccination Coverage, 2019-2020; CDC. Pneumococcal Vaccination Coverage, 2018



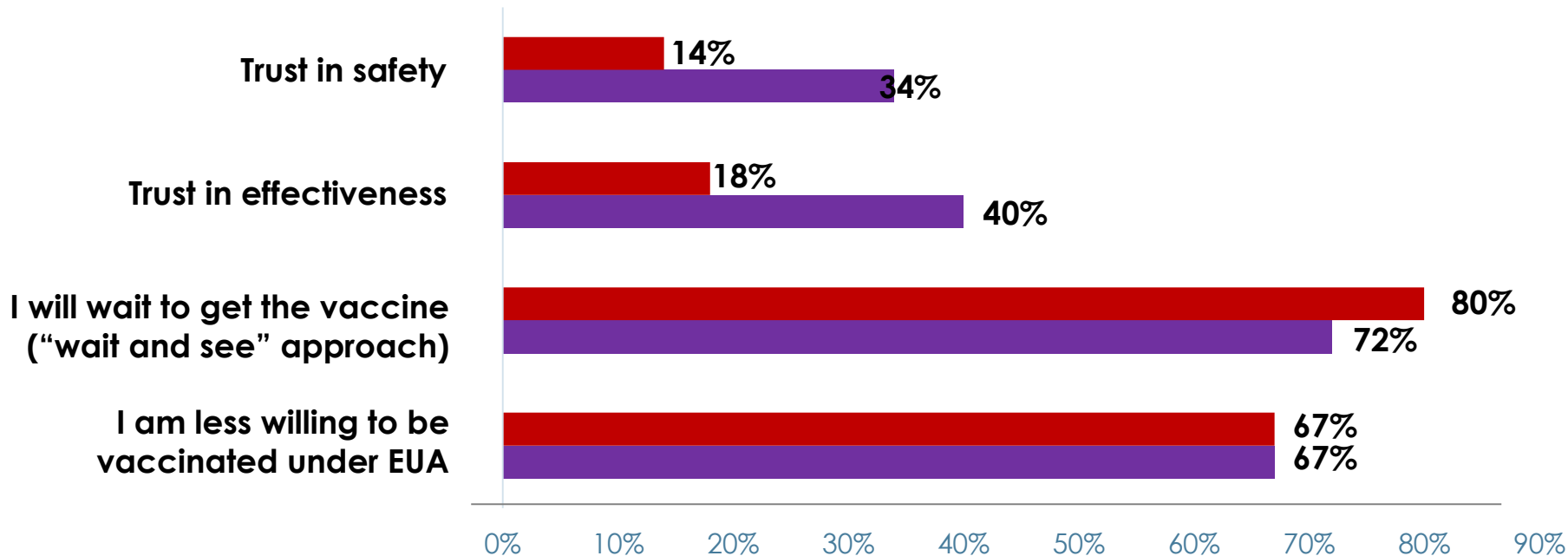
Vaccine Confidence



Osterholm MT. *Lancet Infect Dis.* 2012; Quinn SC et al. *Vaccine.* 2019

COVID Collaborative Survey Vaccine Confidence

■ 1,050 Black ■ 258 Latinx Respondents



<https://www.langerresearch.com/category/our-impact/>; <https://www.covidcollaborative.us/>



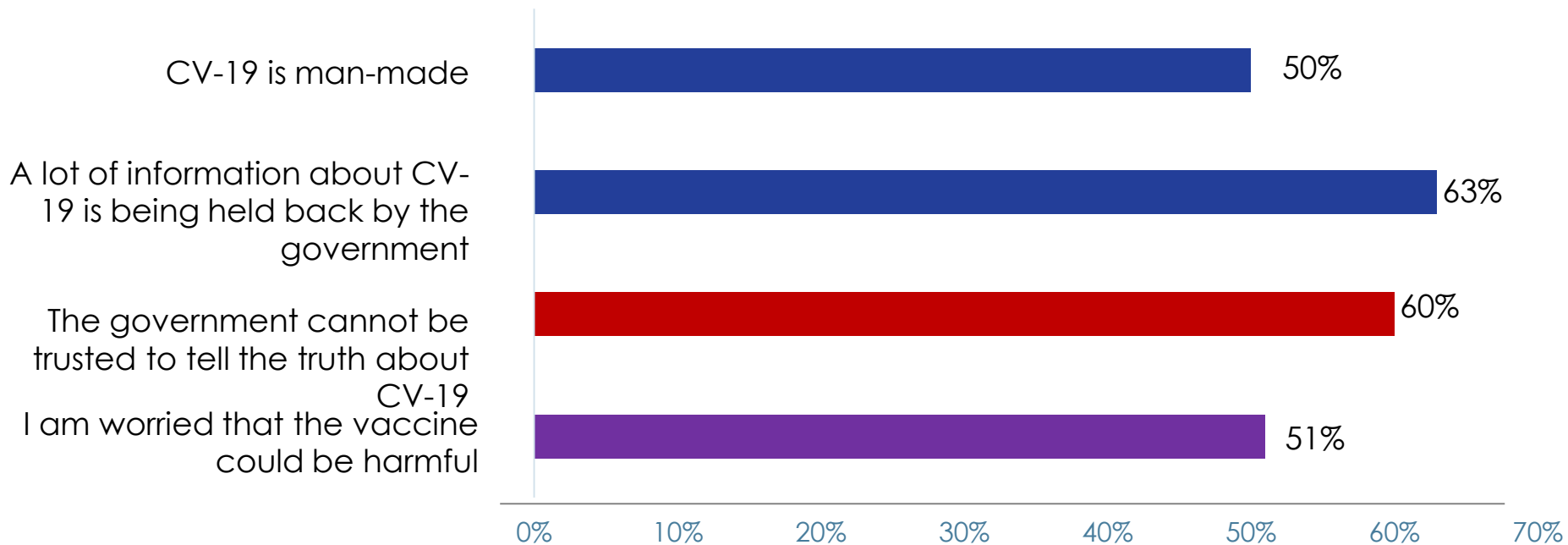
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COVID-19 Mistrust

Black Adults (90% MSM) living with HIV in Los Angeles County, CA



Note: 97% agreed with at least one mistrust belief (of 10 items)

JAIDS, 2020

How does medical mistrust affect COVID-19 outcomes?



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- ✓ **Less** adherence to preventive measures (social distancing, mask wearing)
- ✓ **Lower** acceptability of COVID-19 treatment
- ✓ **Lower** COVID-19 vaccine confidence

JAIDS, 2020



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Mistrust

Healthcare



Providers



Research



Absence of trust that providers/organizations/researchers genuinely care for patients', participants' or their communities' interests, are honest, and transparent

Roots of Mistrust



“Historical and Contemporary Structural Inequity Drives Mistrust”

- Baseline inequity
- Limited access to high quality care
- Adverse environmental exposures
- More illness, worse outcomes, premature deaths
- Stigma, homophobia, xenophobia
- Rational and normal response to adverse circumstances



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HEALTH

'Like watching a train wreck': Experts say America is behind on COVID-19 vaccine messaging, call for honest, straight talk

Elizabeth Weise USA TODAY

Published 6:00 a.m. ET Nov. 10, 2020 | Updated 9:47 a.m. ET Nov. 10, 2020

Potential Messaging Themes:

- Acknowledge systemic inequity and racism as a root causes of mistrust
- Transparency regarding the known and the unknown
- Clearly communicate risks and the unknown
- Social responsibility
- Responsibility to family
- Reframe vaccination as a form of empowerment
- Emphasize choice



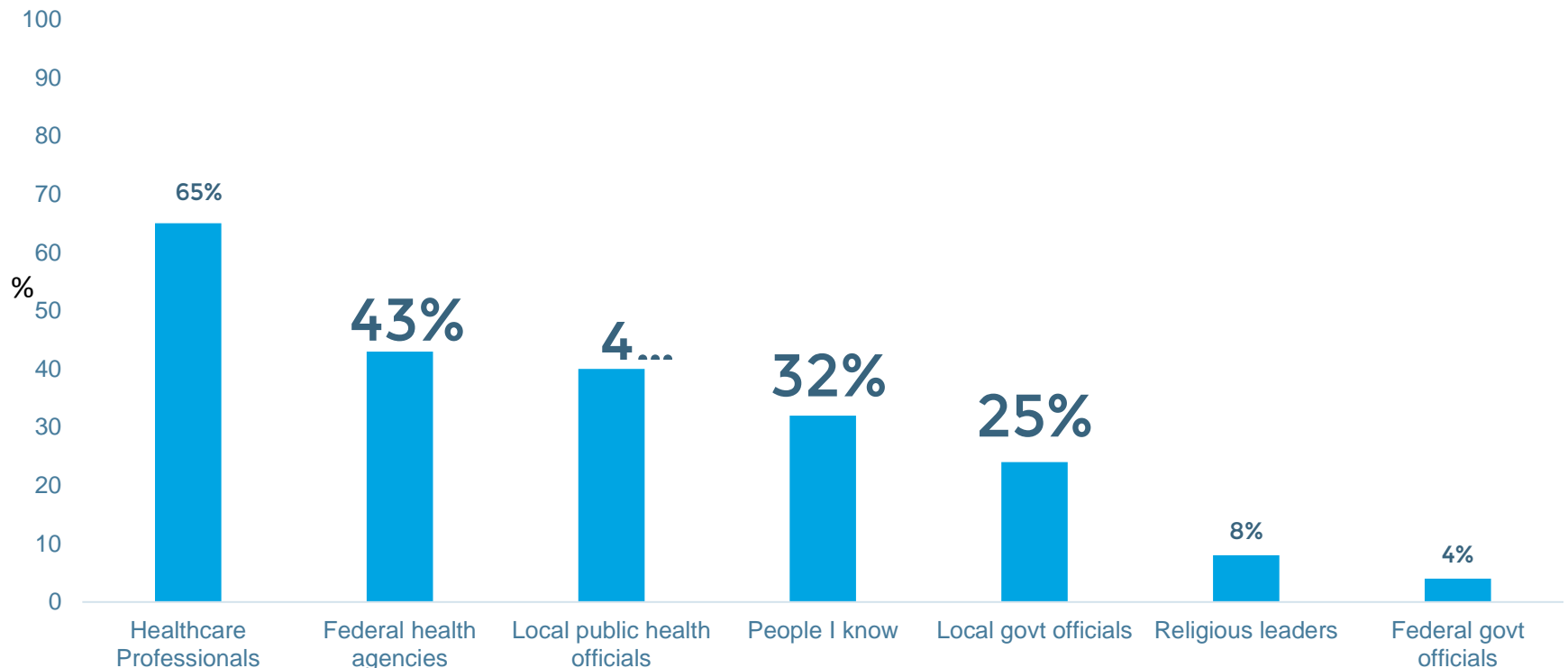
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Healthcare Providers are the Most Trusted Source

for
COVID-19 Vaccine Information
(207 Black/African-American Individuals)



Bogart LM, Ojikutu BO, Dong L. RAND Stakeholder Partnership

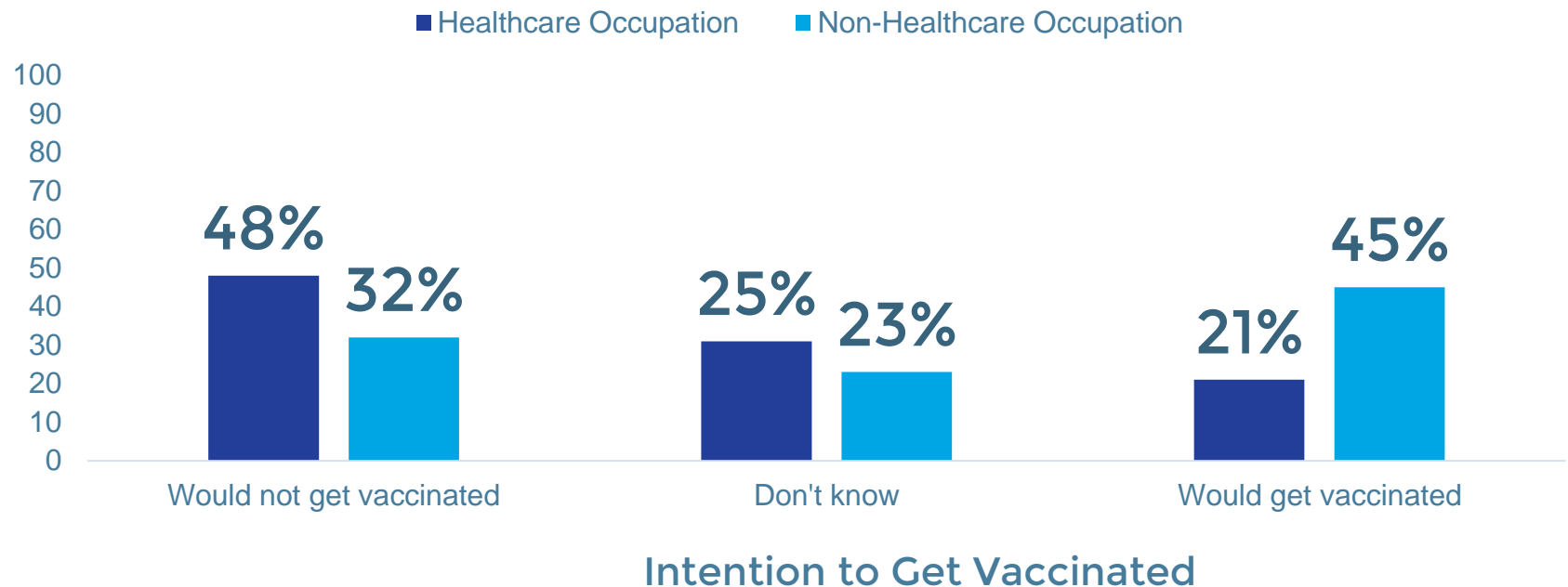


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Vaccine Confidence among Black Individuals Healthcare Providers vs. Other Professions



Bogart LM, Ojikutu BO, Dong L. RAND Stakeholder Partnership

Racism in healthcare settings were associated with higher vaccine hesitancy

% Agree /
Strongly Agree

Within the healthcare system, people from my racial/ethnic group are treated differently than people from other groups



63%

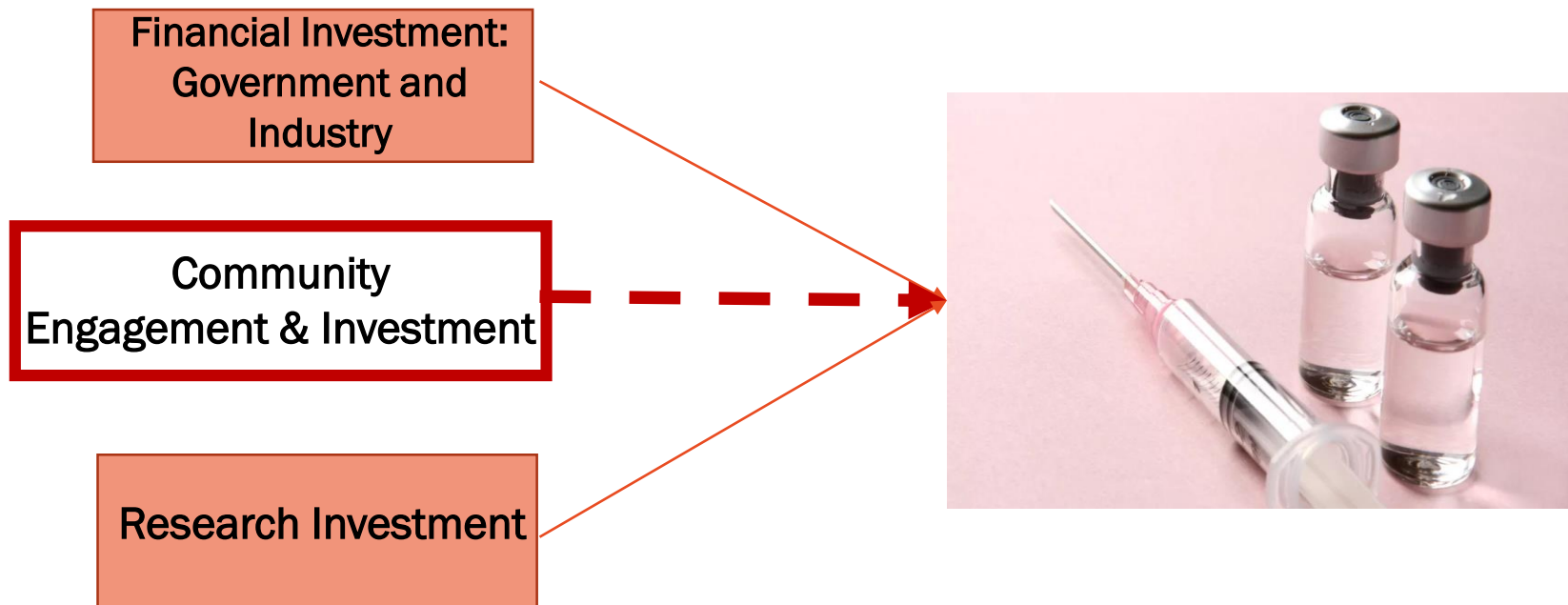
When it comes to COVID-19, Black people won't receive the same medical care from healthcare providers as people from other groups



64%

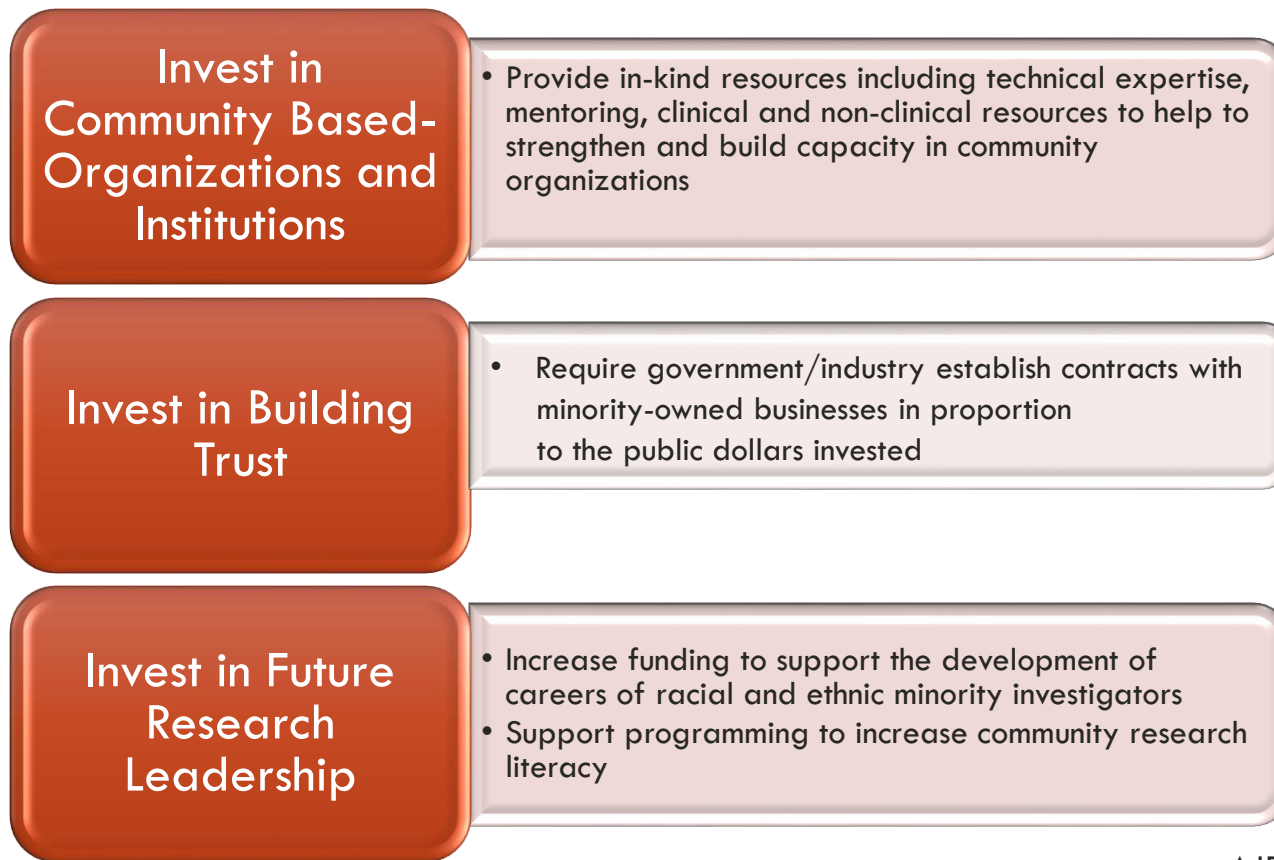
Bogart LM, Ojikutu BO, Dong L. RAND Stakeholder Partnership

Community Investment and Engagement



AJPH, December 2020

Selected Investment Strategies to Support Diversity and Engagement in Research (Build Trust)



AJPH, December 2020



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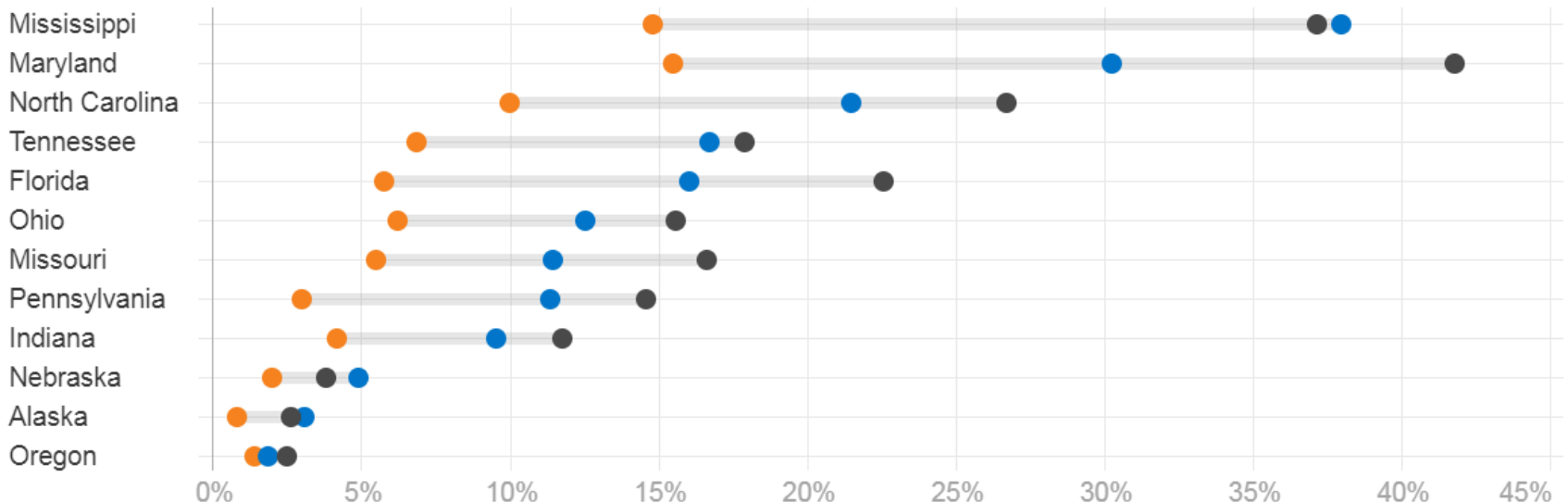
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Black Americans Significantly Trail in Covid Vaccinations

The percentage of those vaccinated who are Black is far lower than their share of both the general population and the health care workforce. Most people who have been vaccinated are health workers.

● Share of vaccinated who are Black ● State residents who are Black ● Health workers who are Black



NOTE: The 12 states shown are those that report race separately from ethnicity; four other states with incomparable data were excluded. Covid vaccinations for which the race of the recipient is unknown were excluded.

CREDIT: Hannah Recht/KHN

SOURCE: Data from state health departments as of Jan. 14, 2021; American Community Survey 2019; Integrated Public Use Microdata Series •

[Download PNG](#)

KHN

Early State Vaccination Data Raise Warning Flags for Racial Equity

Nambi Ndugga [🐦](#), Olivia Pham, Latoya Hill [🐦](#), Samantha Artiga [🐦](#), and Salem Mengistu
Jan 21, 2021

■ Vaccinations ■ Cases ■ Deaths ■ Total Population

Latinx Individuals

Texas



Achieving COVID-19 Vaccine Equity

1. Prioritize (open sites in) the hardest hit neighborhoods
2. *Prioritize the people in those neighborhoods*
3. Collect and release good data
4. Simplify access
5. Utilize resources that are already in the highly impacted communities
6. Build long term capacity and sustainable infrastructure
7. Create partnerships with communities
8. **Communities should be leading the way**



Recommendations for Providers

- Respond to patient concerns in an understanding manner, while conveying accurate information
 - Validate mistrust and skepticism
 - Be non-judgmental and non-confrontational
 - Ask open-ended questions
 - Use reflection/reflective listening



Recommendations for Providers: Motivational Interviewing

- Open communication
 - Show you care about them holistically
 - Fully hear their concerns
- Reflect/roll with resistance: Leave room for patients to state concerns in their own words (why they do not want to do something), and reflect their concerns back to them
 - Hold back your “righting reflex”
 - Give them accurate information about the vaccines
 - **Then allow patients to make their own decision**



Conclusions

- ❖ Low COVID-19 vaccine confidence within communities of color is rooted in structural racism and systemic inequity
- ❖ To address low vaccine confidence no one approach is most effective; a multi-faceted strategy tailored to specific communities is needed
- ❖ COVID-19 vaccine distribution must be focused on equity
- ❖ If we hope to promote sustainable change, communities that are most impacted must lead the way





NATIONAL LGBTQIA+ HEALTH EDUCATION CENTER

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The National LGBTQIA+ Health Education Center provides educational programs, resources, and consultation to health care organizations with the goal of optimizing quality, cost-effective health care for lesbian, gay, bisexual, transgender, queer, intersex, asexual, and all sexual and gender minority (LGBTQIA+) people.

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