

Building Public Trust in Public Health Emergency Preparedness and Response (PHEPR) Science: A Workshop

Day 1: March 29, 2022 | 10:00 AM - 3:00 PM ET
Day 2: March 30, 2022 | 10:00 AM - 3:00 PM ET

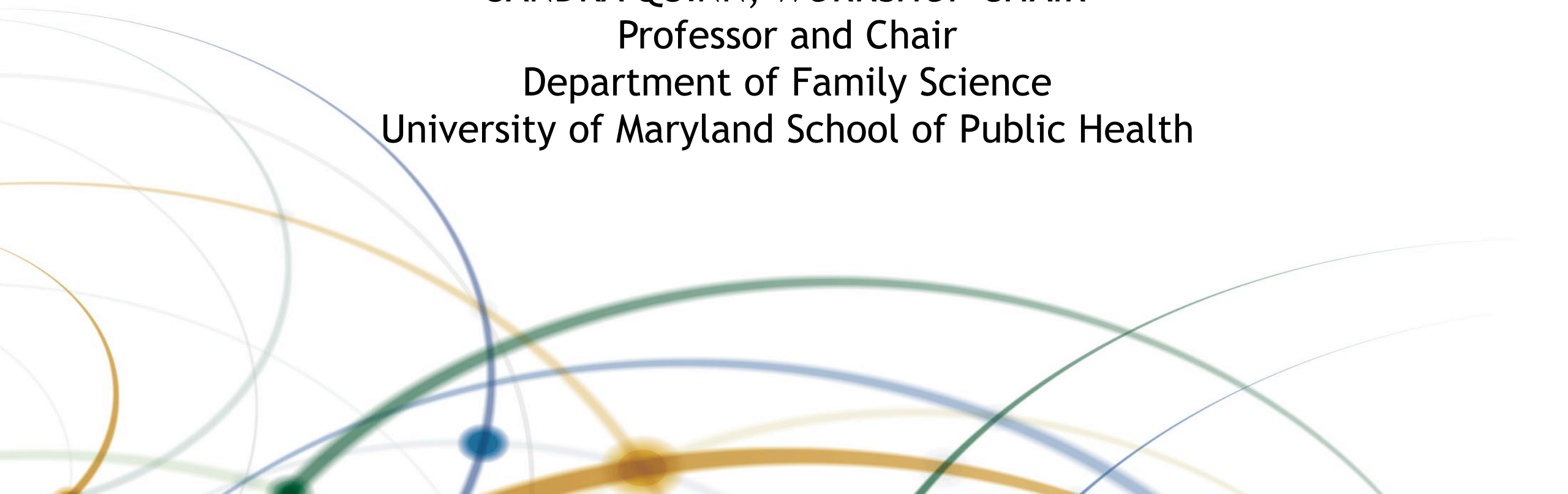
Welcome and Overview of the Workshop

SANDRA QUINN, *WORKSHOP CHAIR*

Professor and Chair

Department of Family Science

University of Maryland School of Public Health



Trust in Public Health Emergency Preparedness and Response (PHEPR) Science

10:15-11:00 am ET

DOMINIQUE BROSSARD, MODERATOR
Professor and Chair
Department of Life Sciences Communication
University of Madison-Wisconsin

BRIAN CASTRUCCI
President and Chief Executive Officer
de Beaumont Foundation

CARY FUNK
Director
Science and Society Research
Pew Research Center

FRANCISCO GARCÍA
Deputy County Administrator for Community
and Health Services Chief Medical Officer
Pima County

MARIAN MOSER JONES
Associate Professor
College of Public Health and History
Department
The Ohio State University

MARCUS PLESCIA
Chief Medical Officer
Association of State and Territorial Health
Officials

BRIONY SWIRE-THOMPSON
Senior Research Scientist
Network Science Institute
Northeastern University

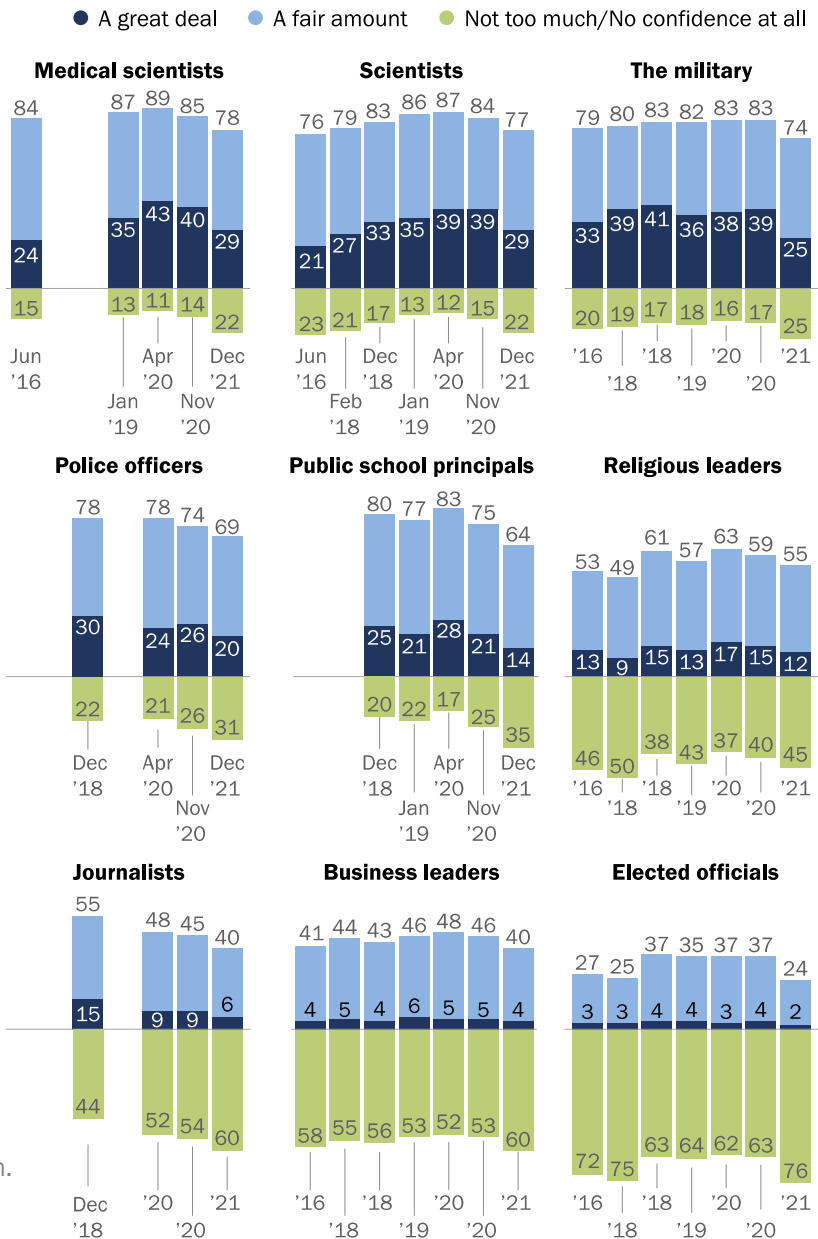
Submit your questions for the panelists in the [Sli.do](#) below the live stream.

The Dynamics Public Trust in Scientists

Cary Funk, Ph.D.

Director, Science and Society Research

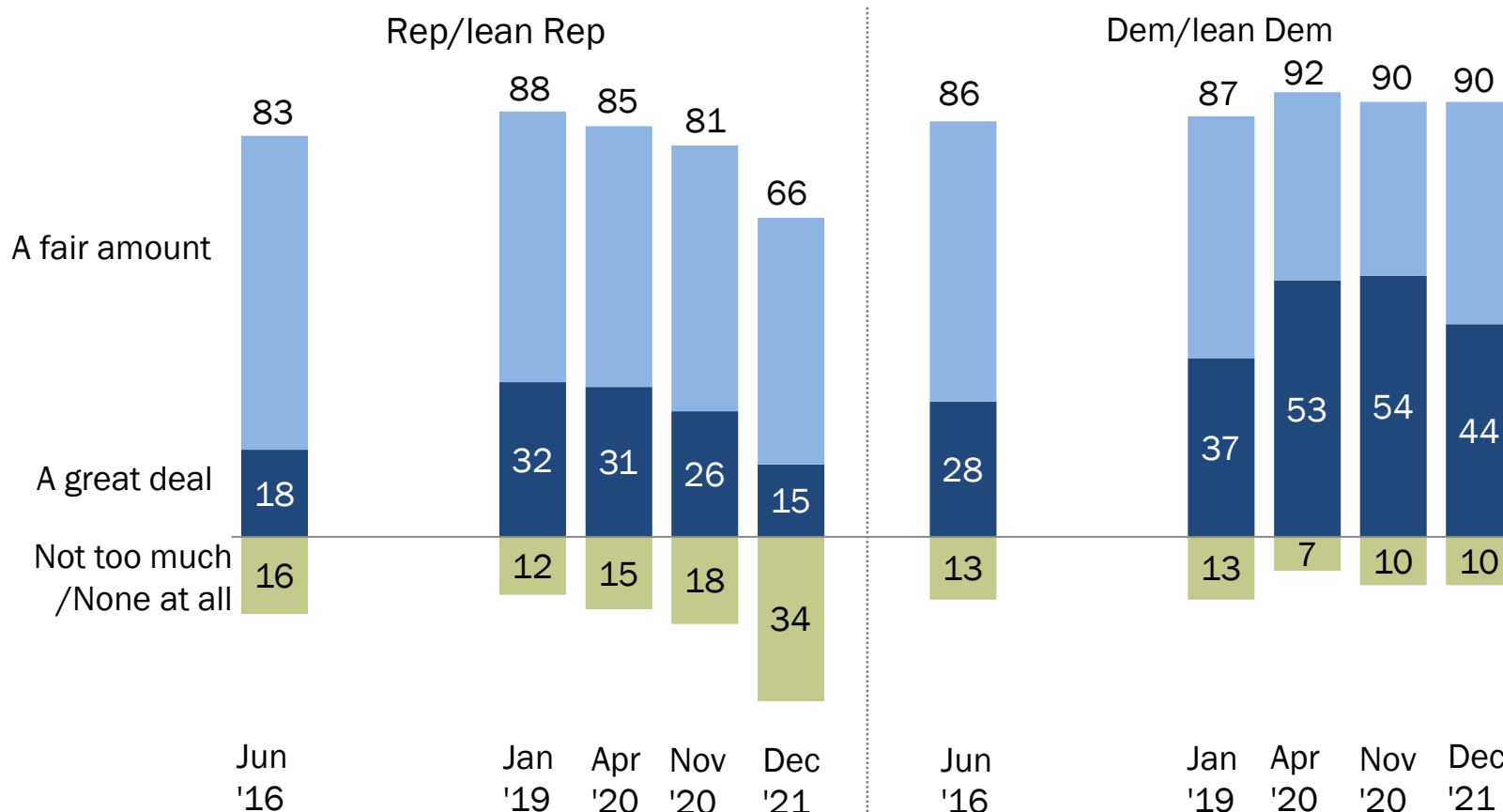
Americans' Trust in Scientists, Other Groups Declines



Note: Respondents who did not give an answer are not shown.
Source: Survey of U.S. adults conducted Jan. 24-30, 2022.

Democrats remain more confident than Republicans in medical scientists; ratings fall among both groups

U.S. adults who have ___ of confidence in *medical scientists* to act in the best interests of the public

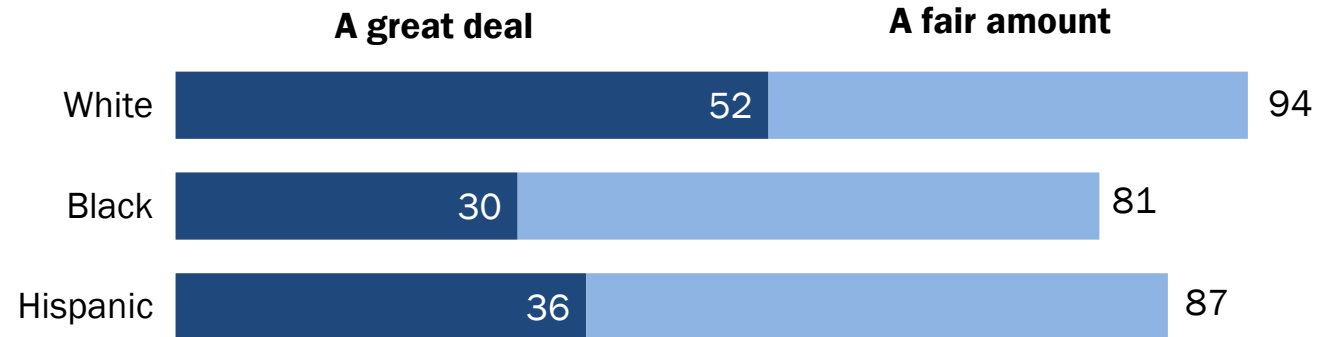


Note: Respondents who did not give an answer are not shown.
Source: Survey of U.S. adults conducted Nov. 30-Dec. 12, 2021.

White Democrats express higher levels of confidence in medical scientists than Black, Hispanic Democrats

U.S. adults who have ___ of confidence in *medical scientists* to act in the best interests of the public

Among Dem/lean Dem ...



Among Rep/lean Rep ...



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: Survey of U.S. adults conducted Nov. 30-Dec. 12, 2021.



Cary Funk, Ph.D.

Director, Science and society research

Email: info@pewresearch.org

@pewscience 



U.S. Survey Research



**International
Survey Research**



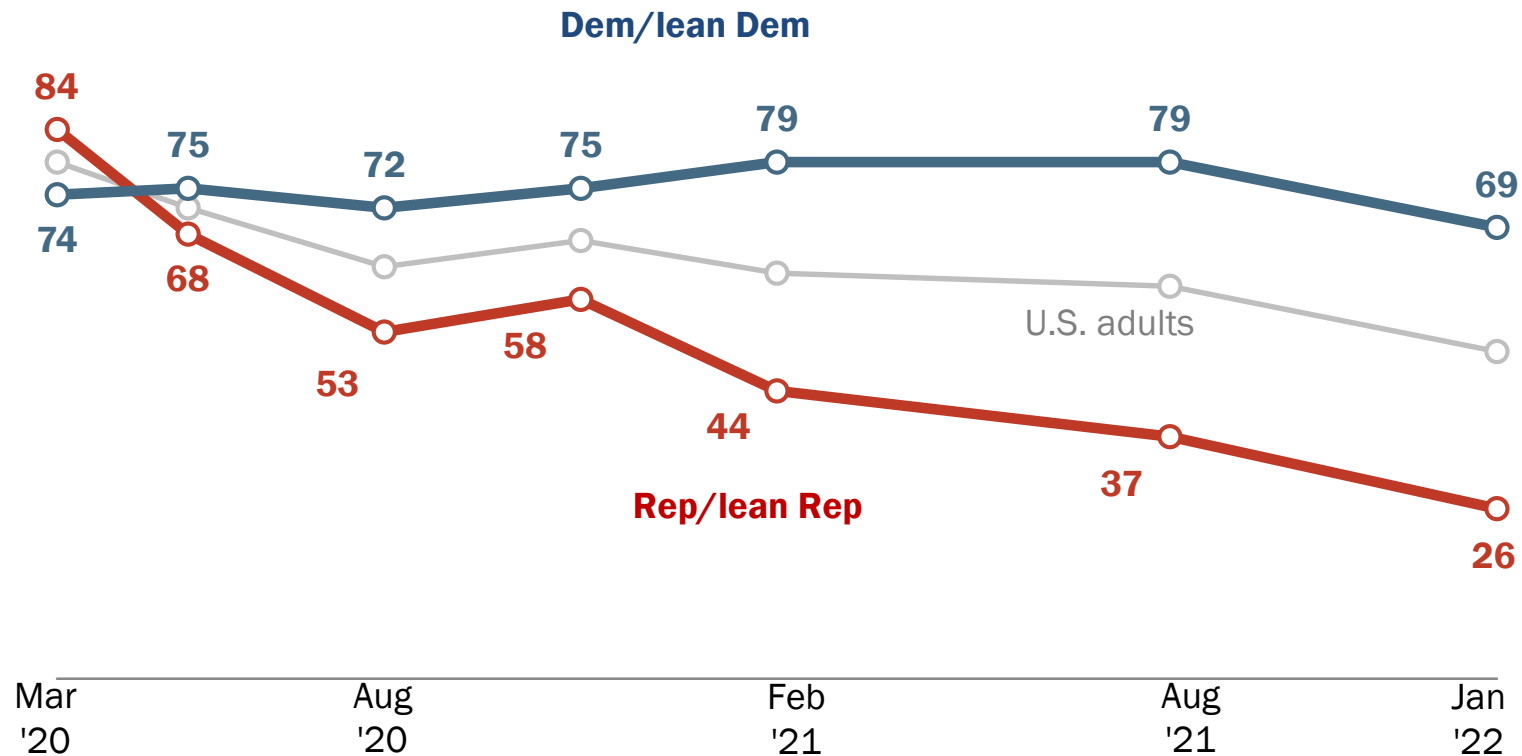
Data Science



Demographic Research

Drop in Republicans' ratings of public health officials' response to COVID-19

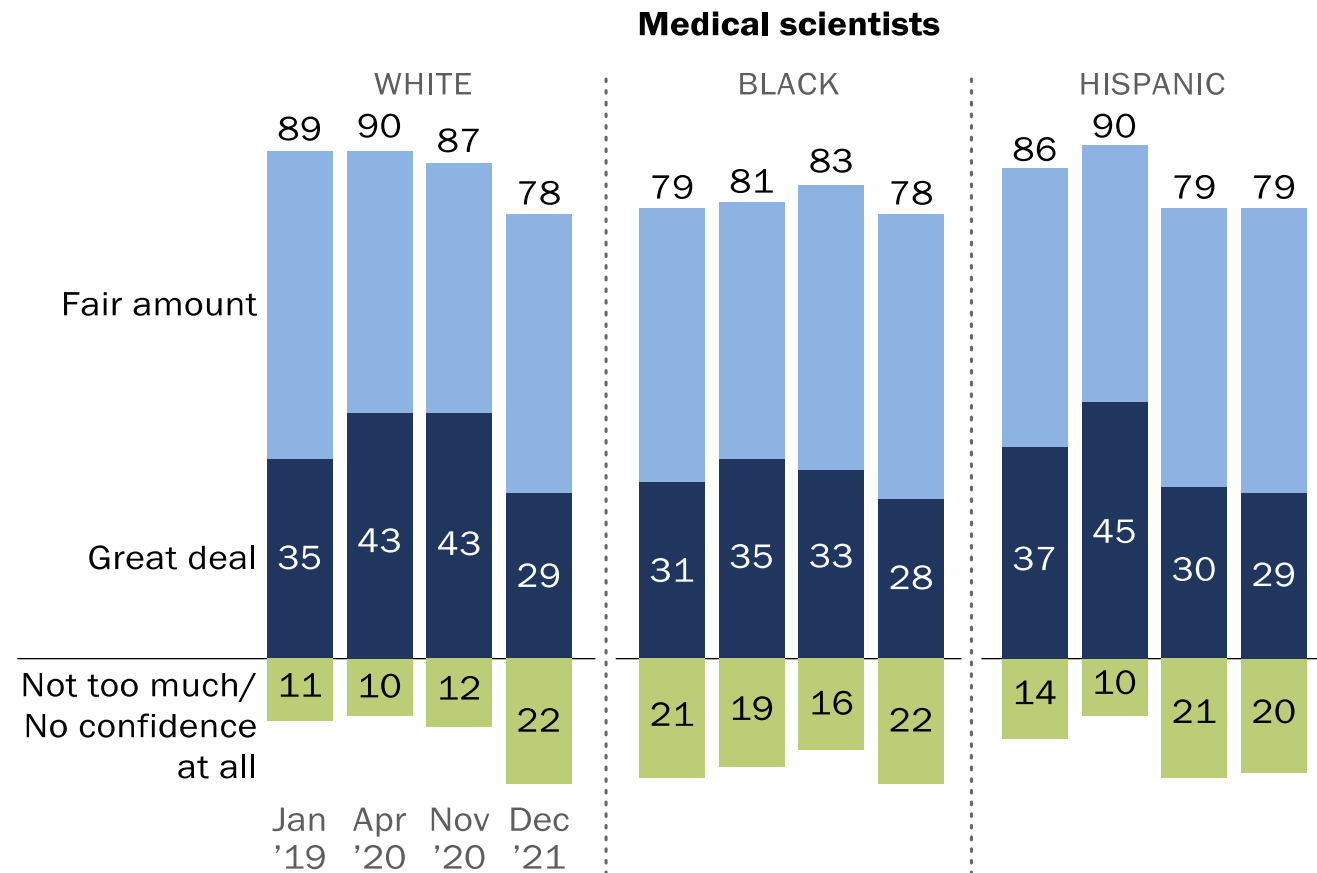
U.S. adults who say public health officials such as those at the CDC are doing an excellent/good job responding to the coronavirus outbreak



Note: Respondents who gave other responses or did not give an answer are not shown.
Source: Survey of U.S. adults conducted Jan. 24-30, 2022.

Confidence in medical scientists has declined among White, Black and Hispanic adults since early 2020

U.S. adults who have ___ of confidence in *medical scientists* to act in the best interests of the public



Note: Respondents who did not give an answer are not shown.
Source: Survey of U.S. adults conducted Nov. 30-Dec. 12, 2021.

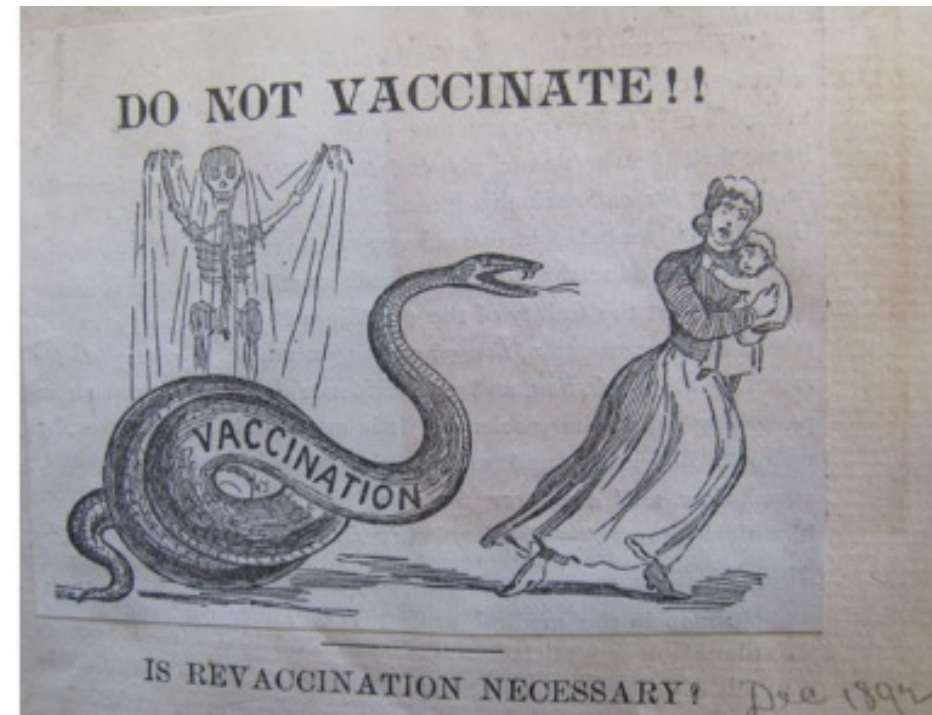
Public Health Misinformation Has a History...

Marian Moser Jones, Ph.D., M.P.H.

Associate Professor, The Ohio State University College of Public Health

Jones.7849@osu.edu

19th C. Transatlantic Anti-Vaxx Movement



Do Not Vaccinate!! Cartoon from anti-vaccination publication. The Historical Medical Library of The College of Physicians of Philadelphia. Scrapbook of Anti-Vaccinations Clippings. 8c242. <http://www.historyofvaccines.org/content/do-not-vaccinate>

Fort Wayne Sentinel (Indiana)
Dec. 24, 1918:

“Whiskey and Influenza”

Liquor dealers' organization sends newspaper editors around U.S. press releases, "letters"

“about the use of whiskey in treating influenza at different army and navy posts...extolled whiskey in the treatment and prevention of influenza.”

Sept. 15, 1918 – *Boston Globe*, p. 6

- 37 deaths among sailors
- 1,897 cases
- But “no reason for the public to be alarmed”
- On page 6????

SIMPLY GRIPPE, REAR ADMIRAL WOOD SAYS

Rear Admiral Spencer S. Wood of the 1st Naval District says there is no reason for the public to become alarmed by reports of influenza among the men under his jurisdiction.

“These cases,” said he, “are simply grippe without any fancy, high-sounding other name, and our department is aware of every case on ships and stations.”

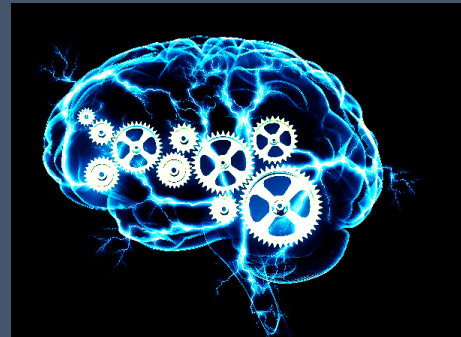


Reducing trust in disinformation sources



Briony Swire-Thompson

Director of the Psychology of Misinformation Lab



Information Ecosystem

Who to trust has become extremely difficult:

- (1) **Predatory journals** that accept publications for monetary gain
- (2) **Retracted articles** are not labelled
- (3) Science **communicators** relaying inaccuracies to lay audiences
- (4) **Fake experts** spreading disinformation



Call to arms

Reducing Health Misinformation in Science: A Call to Arms

The public often turns to science for accurate health information, which, in an ideal world, would be error free. However, limitations of scientific institutions and scientific processes can sometimes amplify misinformation and disinformation. The current review examines four mechanisms through which this occurs: (1) predatory journals that accept publications for monetary gain but do not engage in rigorous peer review; (2) pseudo-scientists who provide scientific-sounding information but whose advice is inaccurate, unfalsifiable, or inconsistent with the scientific method; (3) occasions when legitimate scientists spread misinformation or disinformation; and (4) miscommunication of science by the media and other communicators. We characterize this article as a "call to arms," given the urgent need for the scientific information ecosystem to improve. Improvements are necessary to maintain the public's trust in science, foster robust discourse, and encourage a well-educated citizenry.

Keywords: misinformation; predatory journals; pseudoscience; scientific fraud; health

THE ANNALS OF THE AMERICAN ACADEMY



New experiment!

We first present a source that seems very credible, then...



New experiment!

We first present a source that seems very credible, then...

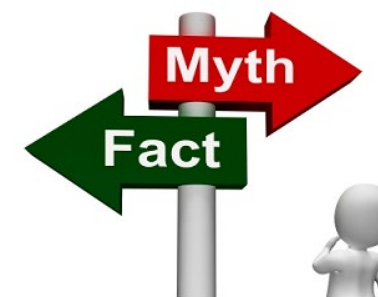
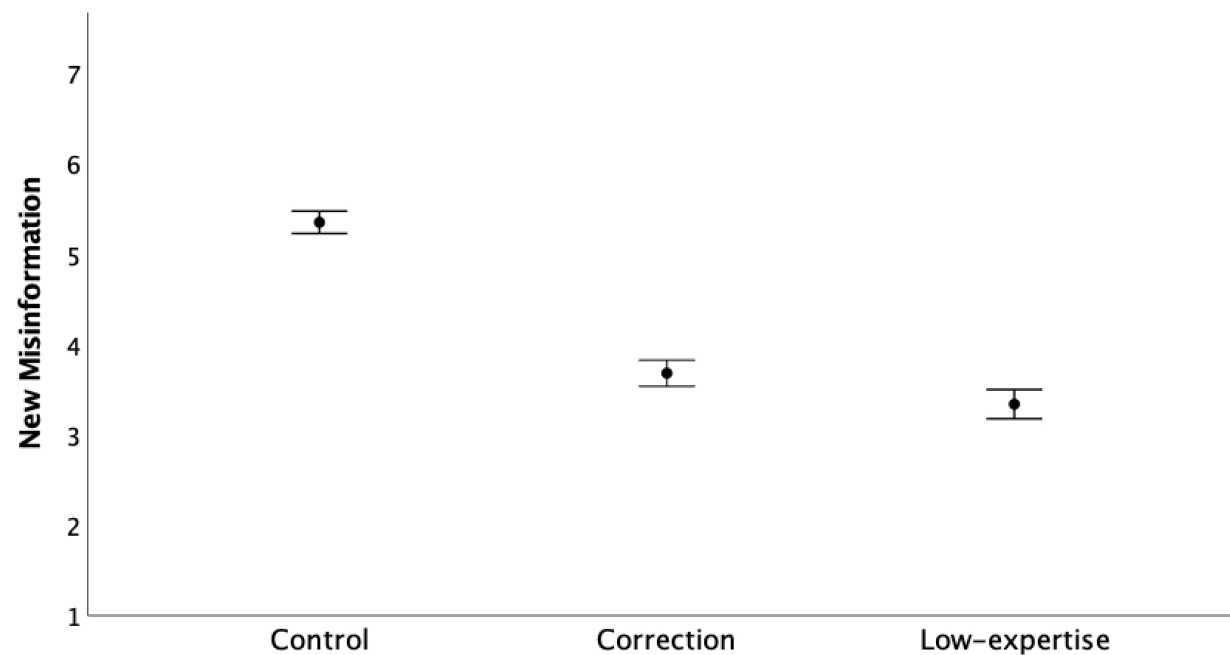
- **Control** condition: photographer, likes cooking
- **Low-expertise** condition: not qualified to give information
- **Correcting misinformation** condition: has made many inaccurate statements



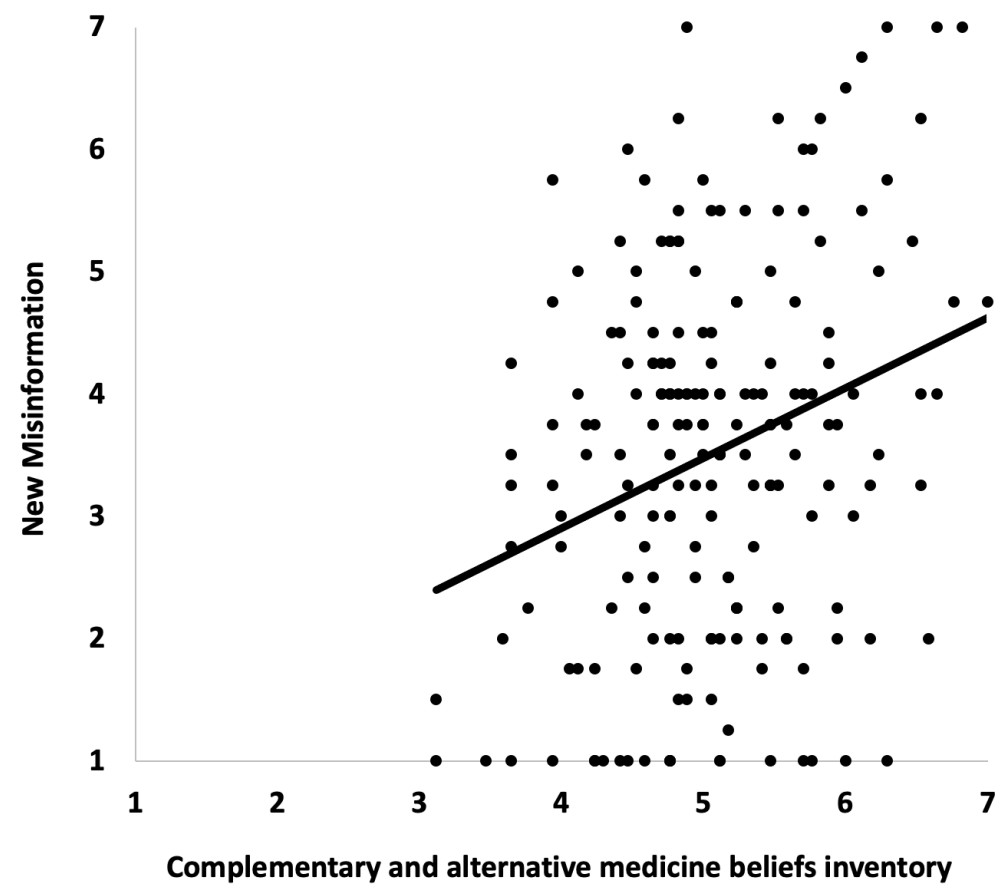
...we next measure people's belief in **new misinformation** and evaluations of **source credibility**



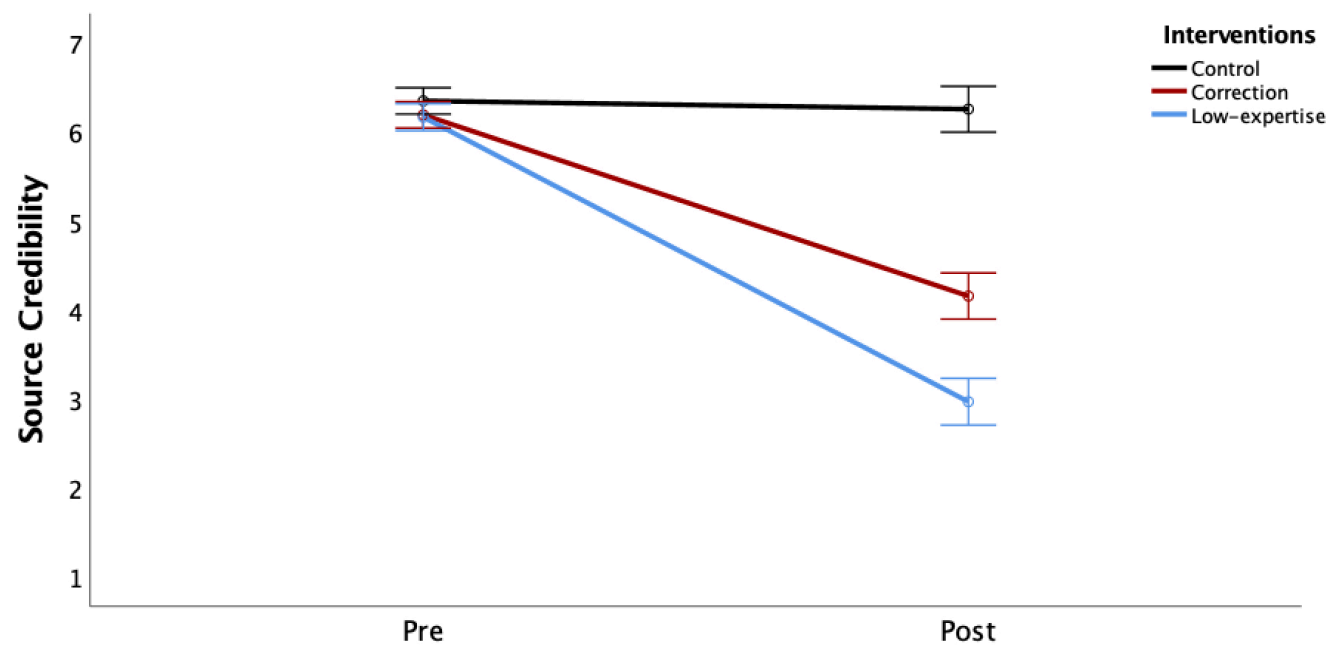
New experiment!



New experiment!



New experiment!





@briony_swire

Credibility and Trustworthiness

11:00-11:45 am ET

CATHY SLEMP, *MODERATOR*

Former Commissioner and State Health
Officer
West Virginia Bureau for Public Health

AMBER ANDERSON

Research Epidemiologist
University of Oklahoma Health Sciences
Center

GILLIAN STEELFISHER

Senior Research Scientist
Department of Health Policy and
Management
Harvard T.H. Chan School of Public Health

ALAN LESHNER

Chief Executive Officer Emeritus
American Association for the Advancement
of Science

ALONZO PLOUGH

Vice President, Research-Evaluation-
Learning and Chief Science Officer
Robert Wood Johnson Foundation

RUEBEN WARREN

Professor and Director
National Center for Bioethics in Research
and Health Care
Tuskegee University

Submit your questions for the panelists
in the Sli.do below the live stream.

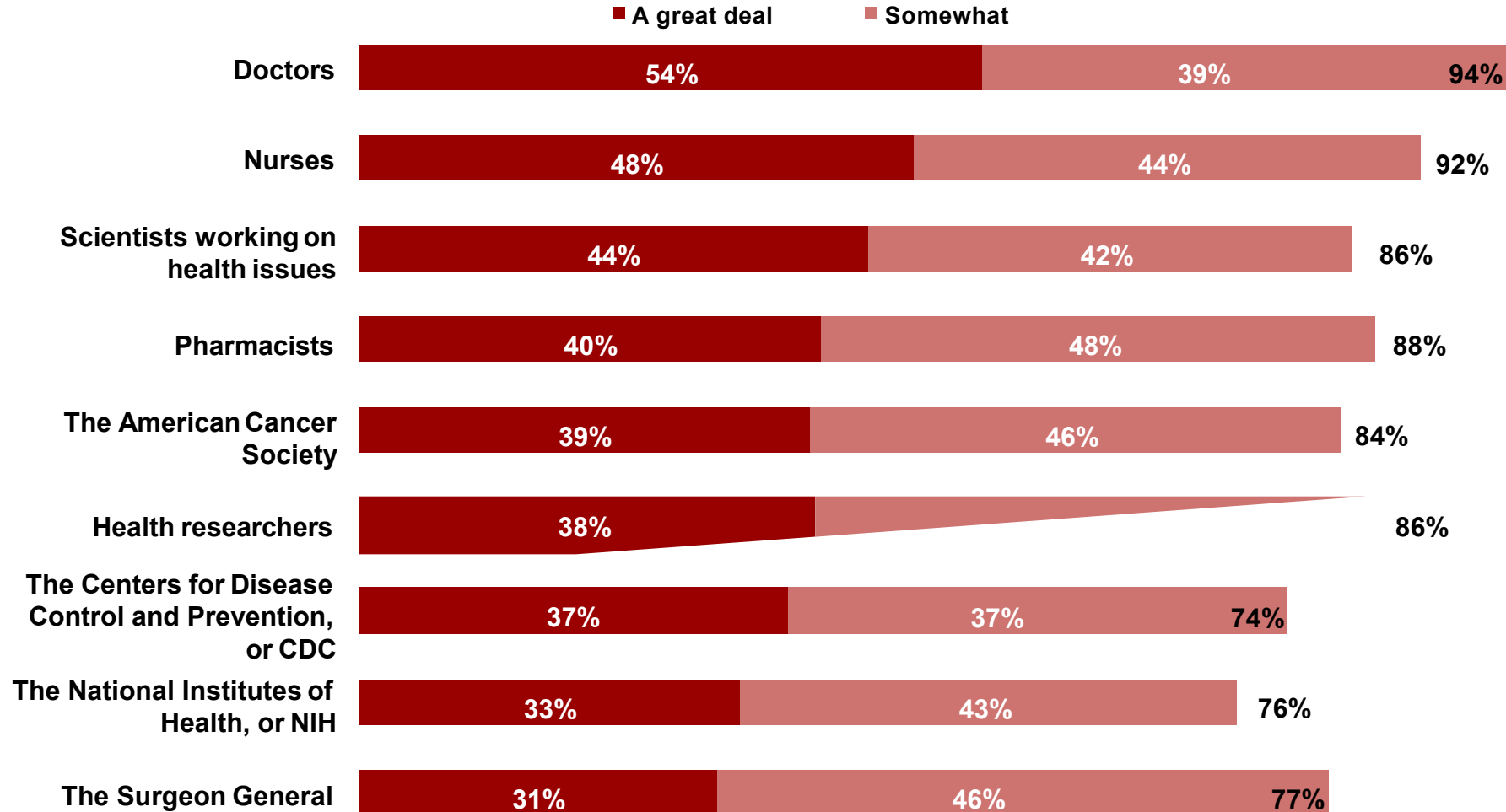
Trusted Sources of Health Information

% saying they trust recommendations to improve health in general made by each group

■ A great deal ■ Somewhat

Most Trusted Sources of Health Information are Medical Professionals

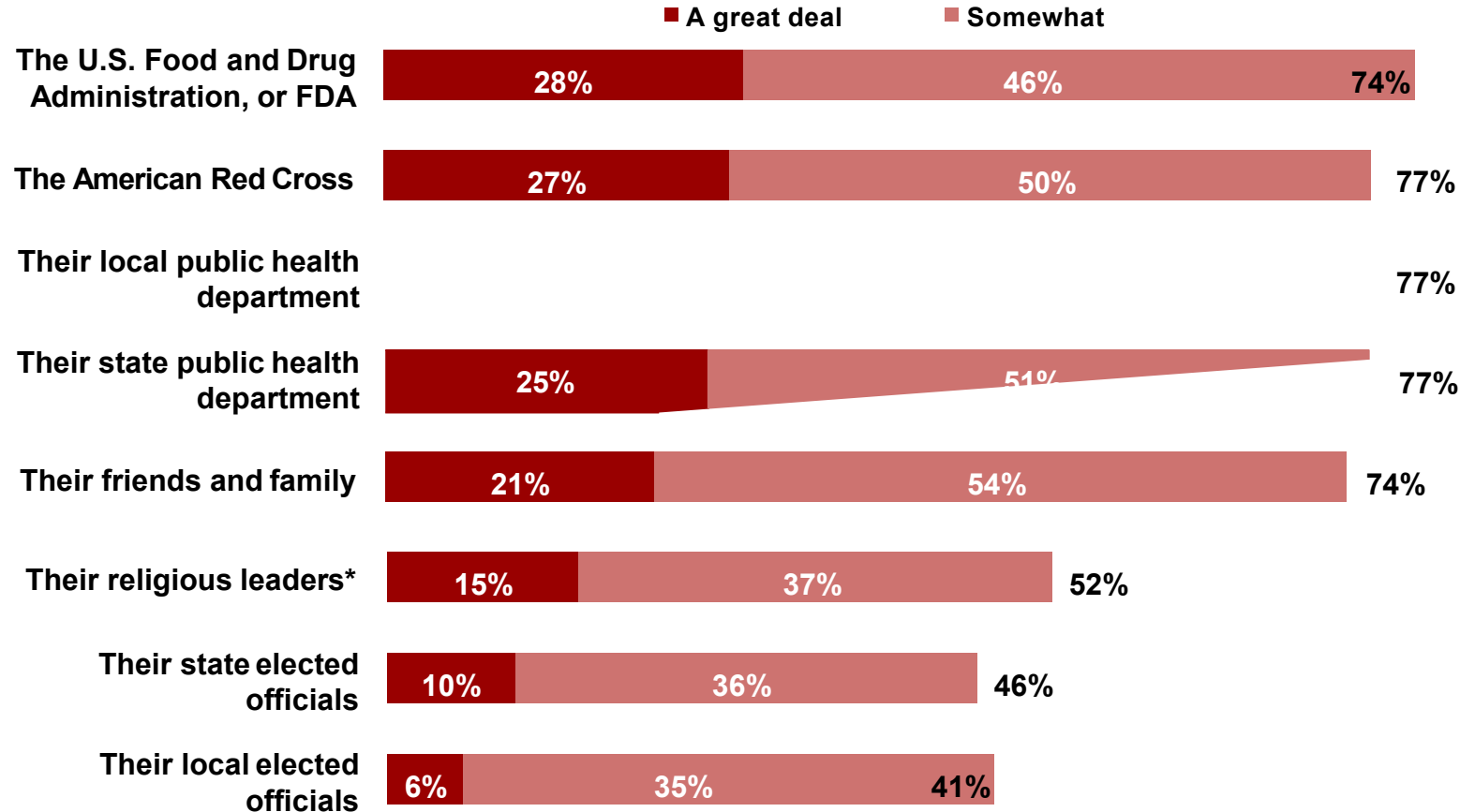
% saying they trust recommendations to improve health in general made by each group



All respondents asked about state and local public health departments and CDC (n=4208); respondents asked about random 10 institutions among remaining (n=2026-2168)

Least Trusted for Health Information are are Elected Officials

% saying they trust recommendations to improve health in general made by each group

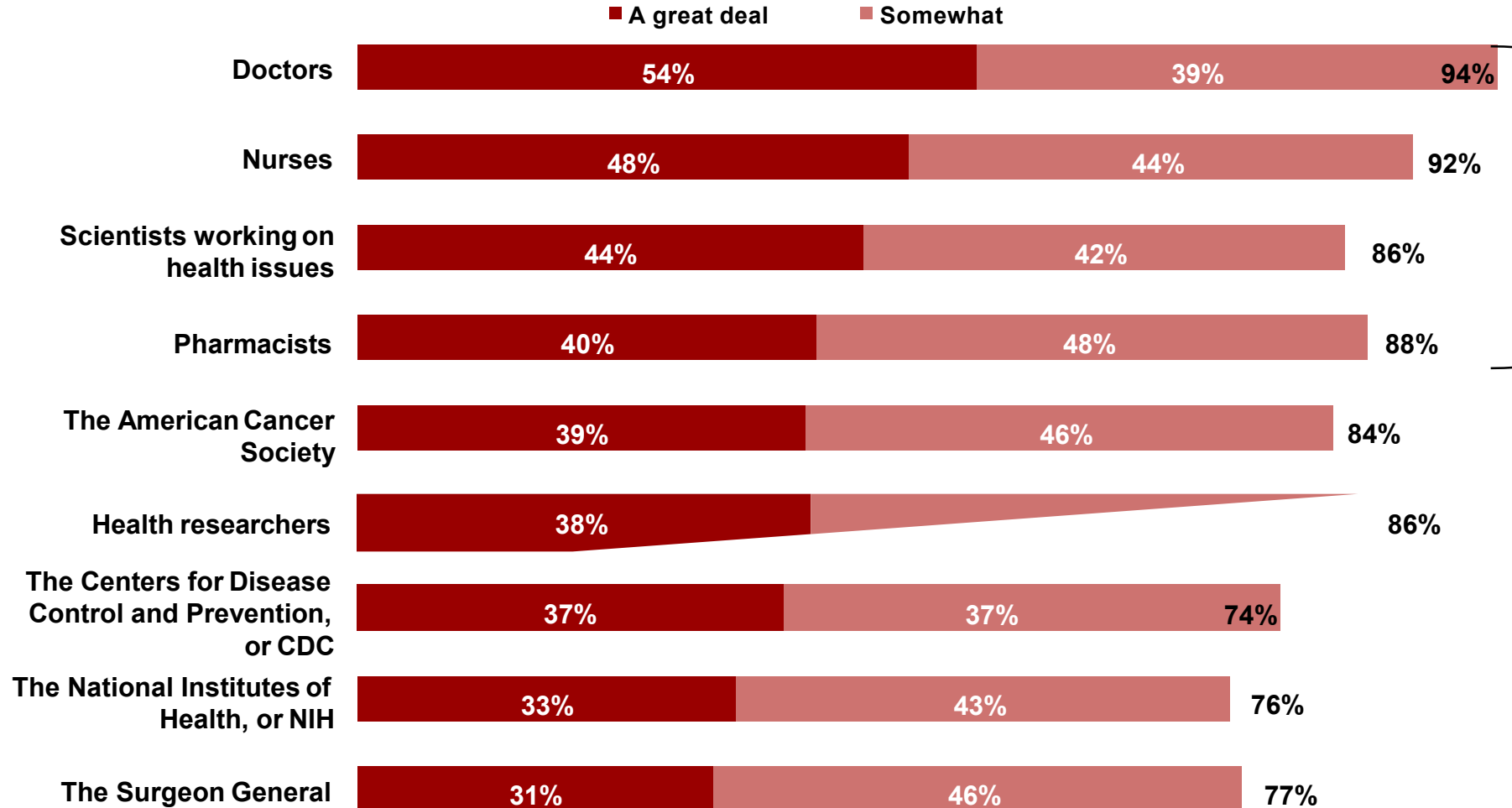


All respondents asked about state and local public health departments and CDC (n=4208); respondents asked about random 10 institutions among remaining (n=2026-2168)

*Among those who also say they have a religious leader, n=1606

Most Trusted Sources of Health Information are Medical Professionals

% saying they trust recommendations to improve health in general made by each group



All respondents asked about state and local public health departments and CDC (n=4208); respondents asked about random 10 institutions among remaining (n=2026-2168)

Confidence and Trust in PHEPR Science Among Diverse Demographic Groups

11:45am-12:30 pm ET

KAI RUGGERI, *MODERATOR*

Assistant Professor

Columbia University Mailman School of
Public Health

LISA LETOURNEAU

Senior Advisor

Maine Department of Health and Human
Services

EMILY K. BRUNSON

Associate Professor

Texas State University

ORRIEL RICHARDSON

Vice President

Morgan Health - JPMorgan Chase & Co.

RAYMOND FOXWORTH

Vice President

First Nations Development Institute

ANNE ZINK

Chief Medical Officer

State of Alaska

VENUS GINÉS

President and Founder

Día de la Mujer Latina

Submit your questions for the panelists
in the Sli.do below the live stream.

Telehealth Community Navigator



Health Fiestas



Patient Navigator



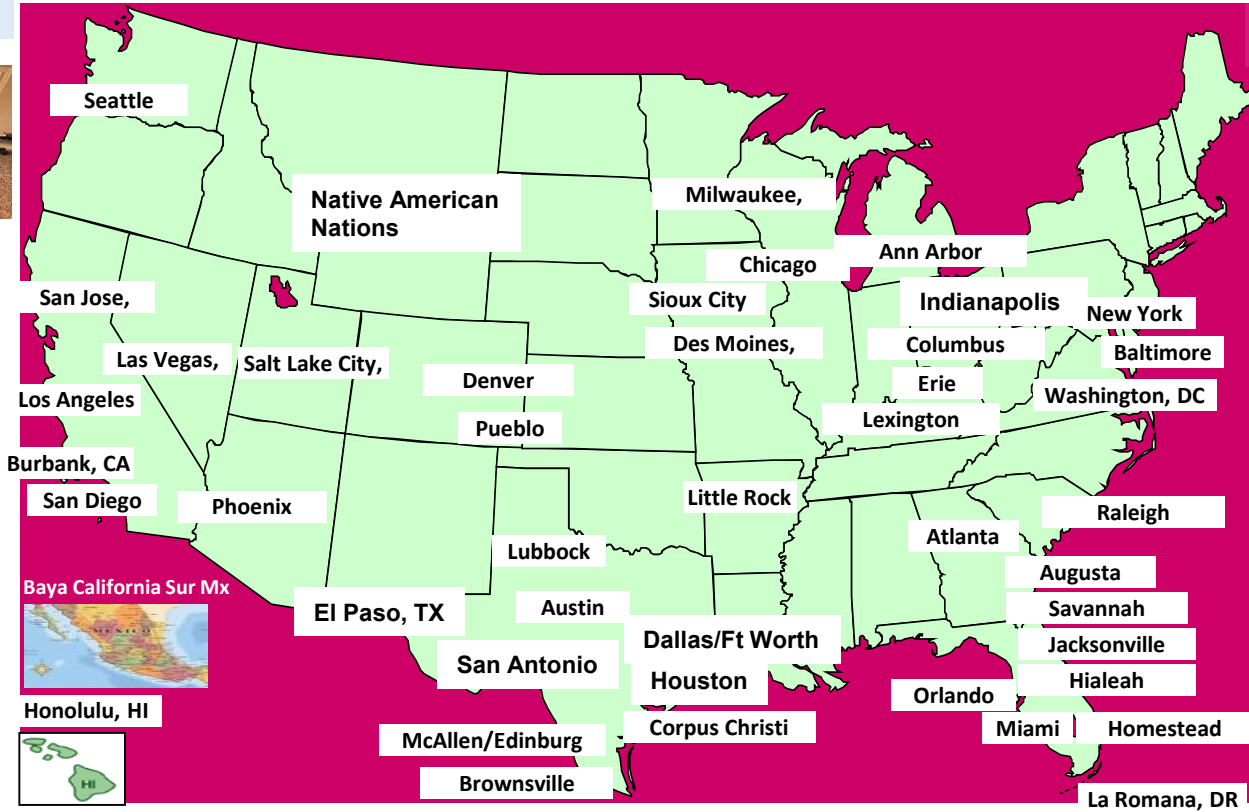
Clinical Trial Community Navigator



Community Health Centers



DML's Community Health Worker/Promotores Outreach & Training



Behavioral Health Community Navigator



Disaster Recovery

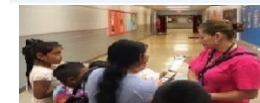


Medical Providers



Personal-Care Navigator

School-based Navigator



Venus Ginés, MA P/CHW-I 281-801-5285

www.diadelamujerlatina.org

president@diadelamujerlatina.org



Oh man, I hope this
doesn't make me late
for my covid 19
appointment

Find a vaccine:
<https://www.maine.gov/covid19/vaccines/vaccination-sitesa>



Community, trust, and time.



(Re)Building and Maintaining Trust Among Diverse Demographic Groups

12:30pm-1:30 pm ET

JENNIFER N. KIGER, *MODERATOR*
COVID-19 Division Director
Harris County Public Health

MICHELE ANDRASIK
Director
Social & Behavioral Sciences and
Community Engagement
HIV Vaccine Trials Network
COVID-19 Prevention Network

LAURA BOGART
Senior Behavioral Scientist
RAND Corporation

CHRISTIAN CAPO
Healthy Equity Manager
East Harris County Empowerment
Council

MATIAS VALENZUELA
Director
Office of Equity and Community
Partnership
Public Health, Seattle & King County

Submit your questions for the panelists
in the Sli.do below the live stream.

(Re)Building and Maintaining Trust

Among Diverse
Demographic Groups

Laura M. Bogart, PhD
RAND Corporation



What is the role of mistrust among diverse demographic groups?

A social psychological and positive psychology perspective

Mistrust is rational

Mistrust is a normal, adaptive coping response to social, historical, and environmental contexts of structural inequity

Mistrust promotes resilience and empowerment

Mistrust can catalyze change at the individual and community levels when channeled effectively

Mistrust moves through social networks

Mistrust is maintained through social networks and formal and informal leaders, in networks

Strategies to Increase Trust:

COMMUNITY ENGAGEMENT

Ongoing authentic community engagement and empowerment

- Conduct needs assessment of community strengths, needs, acceptable messaging, and formal and informal leaders
- Understand the sources of mistrust



Strategies to Increase Trust: **POSITIVE FRAMING**

Use positive message framing of PHERP science information

- Positive, clear, and transparent messages
- Channel community strengths and address misconceptions or areas of low knowledge
- Nonjudgmental, nonconfrontational (Motivational Interviewing) style
 - Acknowledge origins of mistrust and offer information
- Holistic health promotion (vs. disease focus)

— “ —
PrEP is
empowering
— ” —

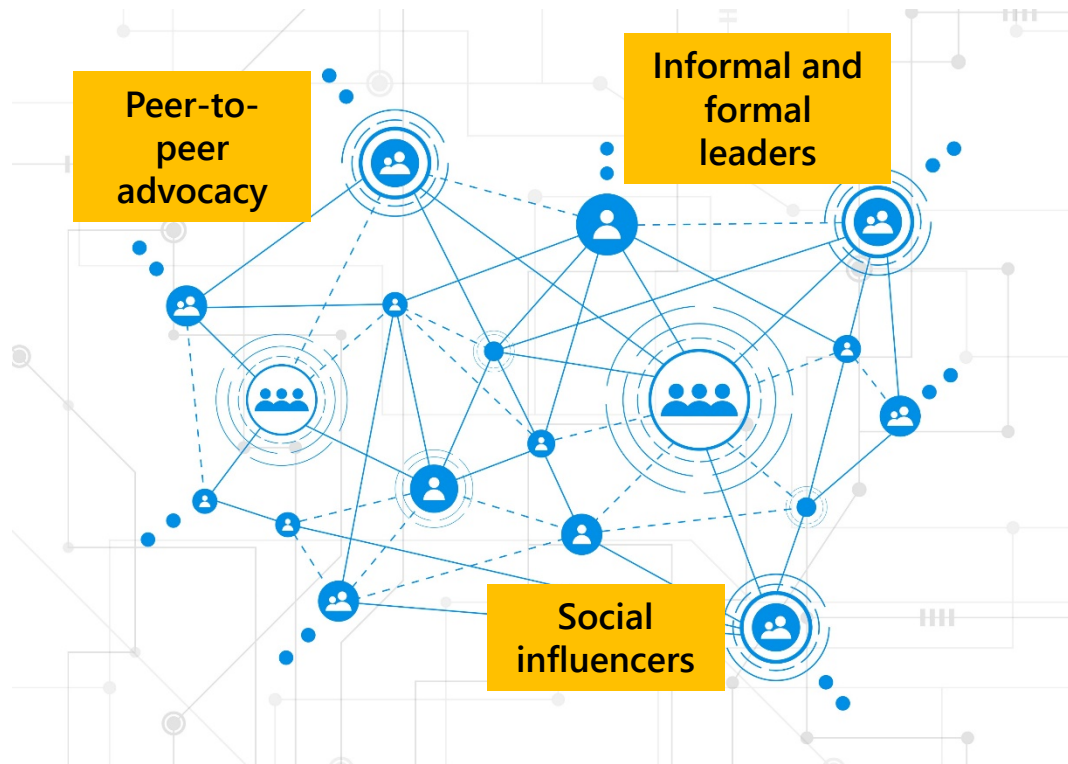
“
PrEP gives
peace of mind”

“
PrEP helps you to
protect yourself,
your **family,** and
your **community**”

Multiple studies, US, Uganda

Strategies to Increase Trust: **SOCIAL NETWORK INTERVENTION**

Leverage the power of social networks, online and offline



Examples

Social network HIV prevention advocacy intervention in Uganda

Train peer advocates on positive messaging and Motivational Interviewing style, and how to identify “strategic” social network members

Botswana COVID-19 Task Force

Agile response and clear, transparent information informed by social media monitoring of negatively valenced posts and misinformation (e.g., by social influencers)

Thank you!

Questions? Email lbogart@rand.org

The Infrastructure and Workforce to Build and Maintain Public Trust

12:30 pm-1:30 pm ET

MONICA L. SCHOCH-SPANNA, *MODERATOR*
Senior Scholar
Johns Hopkins Center for Health Security
Senior Scientist
Department of Environmental Health and Engineering
Johns Hopkins Bloomberg School of Public Health

ANITA CHANDRA
Vice President and Director
RAND Social and Economic Well-Being
RAND Corporation

YSABEL DURON
President and Executive Director
The Latino Cancer Institute

JEFFERSON KETCHEL
Executive Director
Washington State Public Health Association

UMAIR SHAH
Secretary of Health
Washington State Department of Health

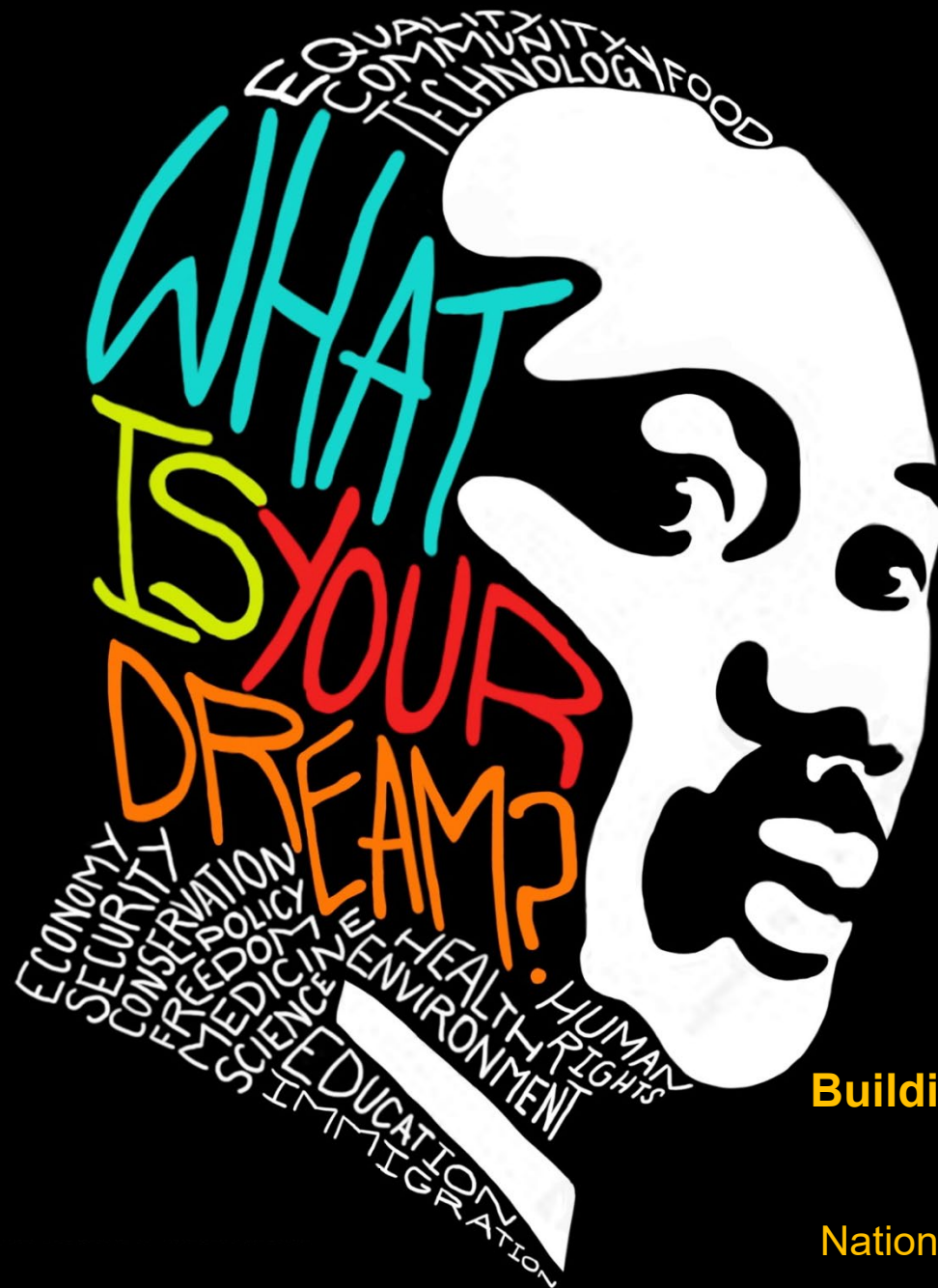
STEPHEN B. THOMAS
Director
Center for Health Equity
University of Maryland

Submit your questions for the panelists
in the Sli.do below the live stream.

If not now, when!
If not us, who?



"Your proposal is innovative.
Unfortunately we won't be able to use it because we've never tried something like this before."



Black Barbers & Stylists as Cornerstone of the Infrastructure and Workforce to Build and Maintain Public Trust

Stephen B. Thomas, Ph.D.

Professor Health Policy & Management

School of Public Health

Director, Maryland Center for Health Equity

University of Maryland

College Park, MD

301-405-8859

go.umd.edu/MDBSUH

**Building Public Trust in Public Health Emergency
Preparedness and Response Science**

National Academies of Science, Engineering and Medicine
Tuesday, March 29, 2022





MONA CENTER SERVICES



MONA CENTER
COMMUNITY GARDEN



BARBERSHOP HEALTH
INITIATIVES



COMMUNITY RESEARCH
ADVISORY BOARD



MISSION OF MERCY



SCHOOL OF
PUBLIC HEALTH
CENTER FOR HEALTH EQUITY

BUILDING BRIDGES
BUILDING TRUST
BUILDING
HEALTHY COMMUNITIES



HEALTH EQUITY POLICY



NETWORK OF SEVEN PRINCE
GEORGE'S COUNTY & SOUTHERN
MD. HOSPITAL PARTNERS

Press Releases

Recovering from COVID-19 in Prince George's County, Maryland

New Report Provides Urgent Recommendations to Inform the Ongoing Response to COVID-19 and Increasing Health Equity in Majority-Black Prince George's County

[← Back to News](#)

Kelly E. Blake | September 21, 2021



New Report Provides Urgent Recommendations to Inform the Ongoing Response to COVID-19 and Increasing Health Equity in Majority-Black Prince George's County

University of Maryland News Release

September 22, 2021

1. Utilize COVID-19 vaccination campaigns as the foundation for sustained health promotion activities with community partners
2. Humanize delivery and communication strategies for COVID-19 vaccines
3. Invest in a strong public health infrastructure, properly staffed for sustained community engagement and public health preparedness, response and recovery activities
4. Strengthen the community health system as the backbone for equity, resilience and recovery

The Historical Context of Health Disparities

“..If there is no **struggle**, there is no progress. Those who profess to favor freedom, and yet depreciate agitation, are men who want crops without plowing up the ground. They want rain without thunder and lightning. They want the ocean without the awful roar of its many waters...”

(Fredrick Douglass)



Health Advocates In-Reach & Research (HAIR) Maryland Barbers & Stylists United for Health



COMMUNITY CARE

✂

THE DOCTOR IS IN

+

A community-based education program trains barbers as health advocates, reaching underserved, high-risk individuals.

BY TAMMY WORTH
PHOTOGRAPHY BY CADE MARTIN

Stephen Thomas loves barbershops. For him, as for so many African-American men, they are a place of historical and cultural relevance. In the 19th century, some barbershops doubled as abolitionist sites or stops on the Underground

HAIR
The goal is to improve the health of the barbers and their mostly African-American clientele.
One partner in the program is Capital Digestive

games, talk sports, listen to music, watch TV, share stories, and live their lives.
"You can have a judge seated next to a guy who works on a loading dock at Safeway who has a homeless man seated on his other side,"





***Early Vaccine Doubters Now Show a
Willingness to Roll Up Their Sleeves***

Polls show that pervasive skepticism is melting, partly because of the high efficacy rates in trials and the images of real people getting the shot.

The New York Times

December 27, 2020

“The news that it was 95 percent effective sold me,” Mr. Brown said. “The side effects sound like what you get after a bad night of drinking and you hurt the next day. Well, I’ve had many of those and I can deal with that to get rid of the face masks.”

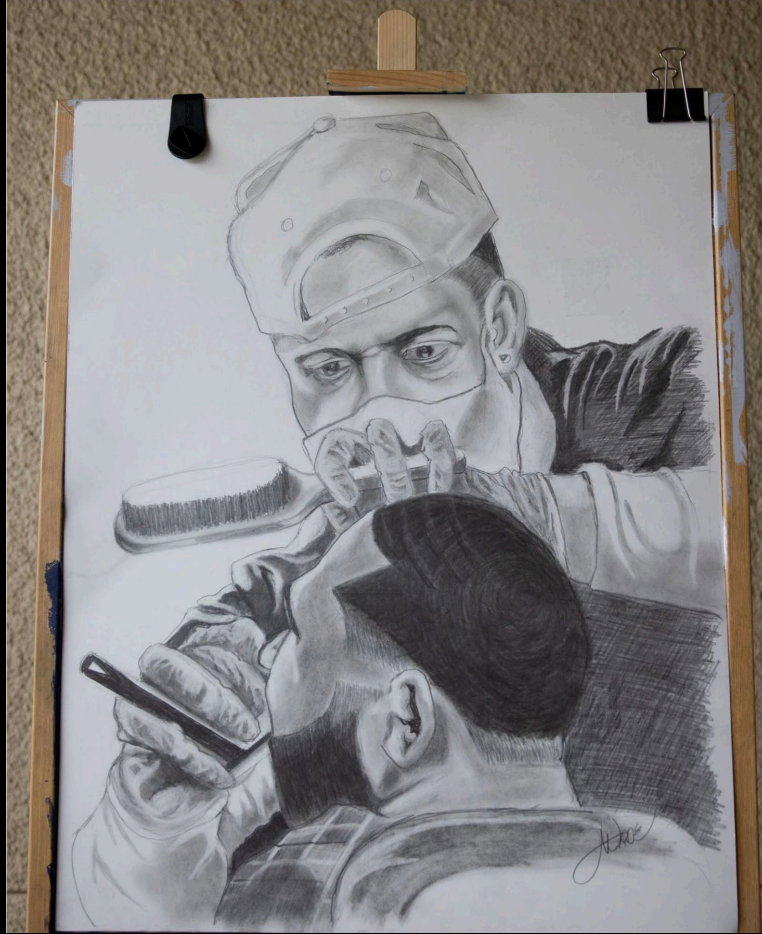
Still, he says, **many customers remain skeptical**. He tells them:

“What questions do you have that you’re leery about?” Just do your investigation and follow the science! Because if you’re just talking about what you won’t do, you’re becoming part of the problem.”

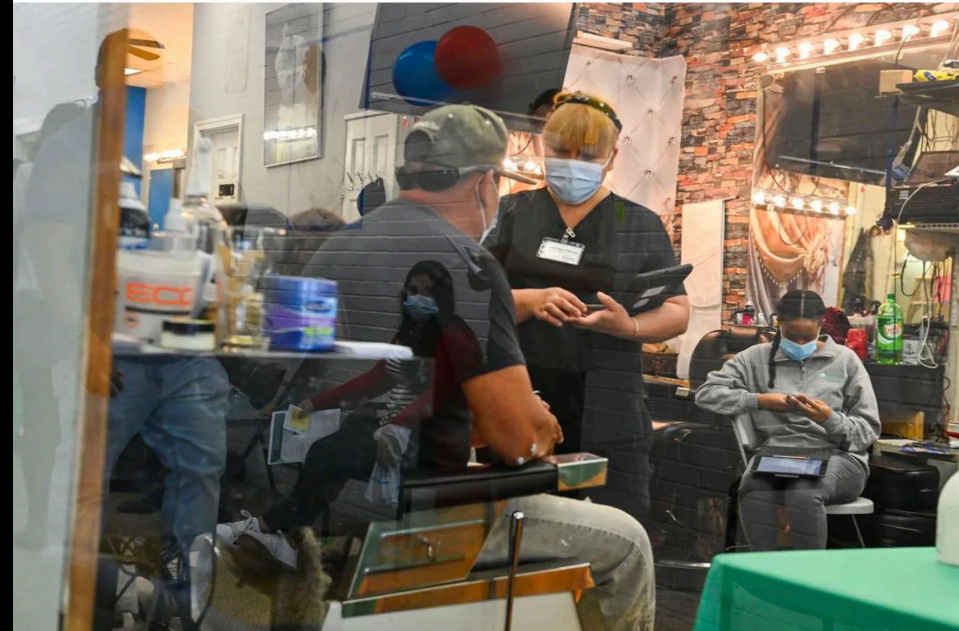
Health

A new national model? Barbershop offers coronavirus shots in addition to cuts and shaves.

"Why not go where people already have trust?" Black community leaders, the University of Maryland and Biden White House seek to deliver accurate health information, as well as vaccines, through black-owned barbershops and salons.



'A Trusting Place'





SCHOOL OF
PUBLIC HEALTH

ACADEMICS ADMISSIONS RESEARCH & IMPACT PEOPLE STUDENT OPPORTUNITIES



Home / Research & Impact / Research Centers / Maryland Center for Health Equity / Projects / [Maryland Barbers & Stylists United for Health](#)

Maryland Barbers and Stylists United for Health

[FIND A PLACE TO GET VACCINATED](#)

[FIND A PLACE TO GET TESTED](#)

[FOLLOW US ON INSTAGRAM](#)



OUR MISSION

Building Bridges, Building Trust, Building Healthy Communities



OUR PLAN

Mobilize barbershops and salons as "trusted information centers" for learning how best to protect family, friends and loved ones from COVID-19 infection.



LEAD PROJECT TEAM

The University of Maryland Center for Health Equity, Institute for Creative Community Initiatives and Radio One, Inc.



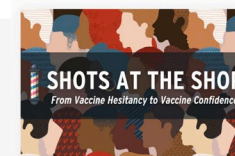
OUR EVENTS

September 28th:
[CommunVax Report Back | Webinar | 6:30pm to 8pm](#)

October 1st: [Tye & Co. Beauté Bar | Mobile Vaccine Clinic | 1pm to 5pm](#)

COVID-19 Rapid Response Training for Barbers and Stylists

Featured Projects



Shots at the Shop

Shots at the Shop is a White House-backed effort from the University of Maryland's Maryland Center for Health Equity, the Black Coalition Against COVID and the beauty and personal care brand SheaMoisture to recruit 1,000 Black-owned barbershop and hair salons nationwide to promote informed decision-making as a means to increase COVID-19 vaccinations.

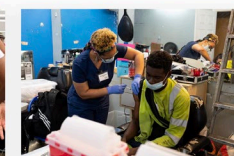
[LEARN MORE >](#)



The Health Advocates In-Reach and Research Campaign (HAIR)

The primary aim of HAIR is to create an infrastructure to engage barbershops and beauty salons in Prince George's County as culturally relevant portals for health education and delivery of public health and medical services in the community.

[LEARN MORE >](#)



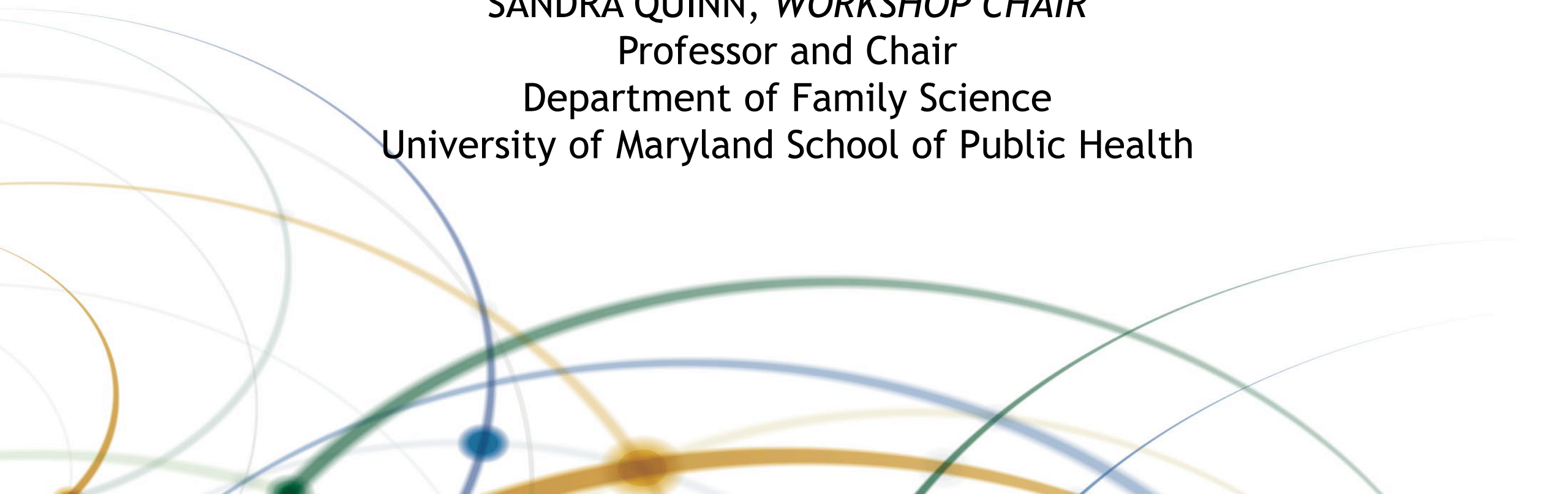
COVID-19 Vaccines- Webinar Series

The Center for Health Equity has held several informative and informal webinars to address questions and concerns about the COVID-19 vaccines with community members and medical and public health experts.

[ACCESS THE COVID-19 VACCINE WEBINAR PLAYLIST >](#)

Welcome and Recap of Day 1

SANDRA QUINN, *WORKSHOP CHAIR*
Professor and Chair
Department of Family Science
University of Maryland School of Public Health



... MANY MOVING PARTS TO INSURE THROUGHOUT

GOALS

- SPRING PREPARED
- RESPONDNESS
- MITIGATION

ACADEMICS
RESEARCHERS
SUBMITTERS
PUBLISHERS

TRUST

WORTHINESS

MORE COMPLEXITY
IN EVENTS & CIRCUMSTANCES

Translating and Communicating PHEPR Science Information

10:15am-11:15 pm ET

HILARY N. KARASZ, *MODERATOR*
Deputy Communications Director
Public Health, Seattle & King County

AMY ACTON
Former Director
Ohio Department of Health

MEREDITH LI-VOLLMER
Risk Communication Manager
Public Health - Seattle & King County

ENOLA PROCTOR
Professor
Brown School at Washington University in
St. Louis

ULIE SEAL
Fire Chief and Emergency Manager
Bloomington Fire Department

MITCH STRIPLING
Director
Pandemic Response Institute
Columbia University

JEANNETTE SUTTON
Associate Professor
University of Albany, SUNY

Submit your questions for the panelists in the Sli.do
below the live stream.

PHEPR Science Workshop

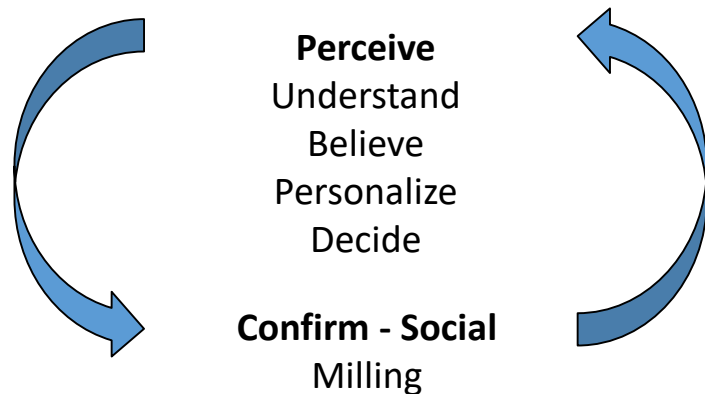
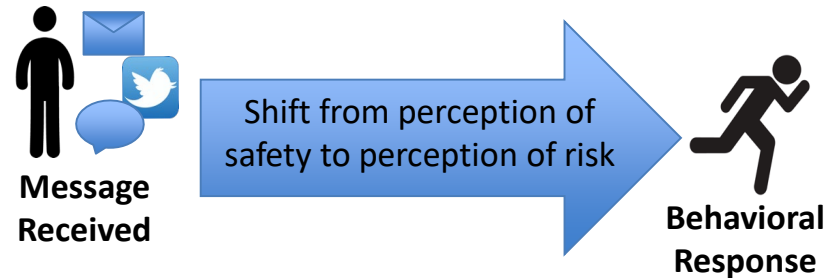
Session VII Key Elements of PHEPR Science Communication Strategies

Translating and Communicating PHEPR Science Information

Jeannette Sutton, PhD.

College of Emergency Management, Homeland Security and Cybersecurity

Messages can be effectively designed to warn people of imminent threat



Message Contents

Source – credible and known

Threat & consequences

Location/Populations

Protective Actions

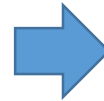
Time – action & expiration

Message Style

Certain
Credible
Consistent
Coherent

We have applied this research in an all-hazards approach.

[local, familiar, authoritative message source]. [Description of threat/event] in [Location of threat] [and consequences]. [Protective Action][Protective Action Timeframe]. Message expires [time here]



____ Police Department: **WILDFIRE**
EMERGENCY located _____ moving toward _____. Wildfires can cause injury/death, burn down homes/other structures. If you are receiving this message **EVACUATE NOW**. Do not delay to pack belongings. Check ____ for updates.

Doermann, J., Kuligowski, E., *Planning for Wildfire: Tips for creating 360-character Wireless Emergency Alert templates*, Fire Adapted Communities Networks, 2020

Sutton, J., Kuligowski, E. *Alerts and Warnings on Short Messaging Channels: Guidance from an Expert Panel Process*, Natural Hazard Review 20:2, 2019.

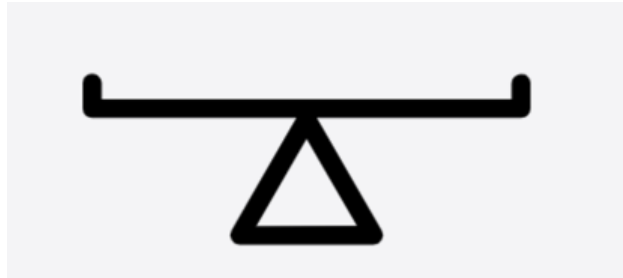
See also: www.Albany.edu/erc-lab

Longitudinal PHEPR risk communication is an under-studied area

- How to keep people engaged over a long period of time
- How to motivate people to continue to take protective actions
- How to help people to sift through massive troves of information
- How to counter misinformation and disinformation
- How to manage human resources for the long haul

Sutton, J., Rivera, Y., Sell, T. K., Moran, M. B., Bennett, D. M., Schoch-Spana, M., Stern, E. K., Turetsky, D. (2020). Longitudinal risk communication: A research agenda for communicating in a pandemic. *Health Security*

Balancing certainty- uncertainty as researcher and professor



When I teach researchers



When I teach front-line providers



How to deal with the tentativeness of evidence?

New discoveries lend credence
to the scientific process

....new discoveries do not undermine the
trustworthiness of science

Start early
Audience segmentation
Pre-bunk misinformation

Preparation strategies

Trusted institutions
Champions
Homophily

Choose the messengers

Synthesize: not to much, not too little

Contextualize

Normalize emergence of new data

Strategies: choose the message

Print Media Networks

Strategies: Dissemination channels

Interactive Varied: data & narrative Multiple

Dissemination strategies: Engage

Misinformation and Disinformation

11:15 am-12:15 pm ET

RACHAEL PILTCH-LOEB, *MODERATOR*

Researcher

Emergency Preparedness Research Evaluation and
Practice Program

Harvard T.H. Chan School of Public Health

DAVID BRONIATOWSKI

Associate Professor

School of Engineering & Applied Science

The George Washington University

MICHAEL OSTERHOLM

Director

Center for Infectious Disease Research and Policy

University of Minnesota

JON ROOZENBEEK

Postdoctoral Fellow

University of Cambridge

TARA KIRK SELL

Senior Scholar

Johns Hopkins Center for Health Security

WILMA J. WOOTEN

Public Health Officer

Public Health Services

County of San Diego

Submit your questions for the panelists in the Sli.do
below the live stream.

Misinformation, Disinformation, and Trust in PHEPR – A Once and Future Problem

Tara Kirk Sell, PhD

Senior Scholar Johns Hopkins Center for Health Security

Assistant Professor, Department of Environmental Health and Engineering

Building Public Trust in Public Health Emergency Preparedness and Response (PHERP) Science

March 30, 2022

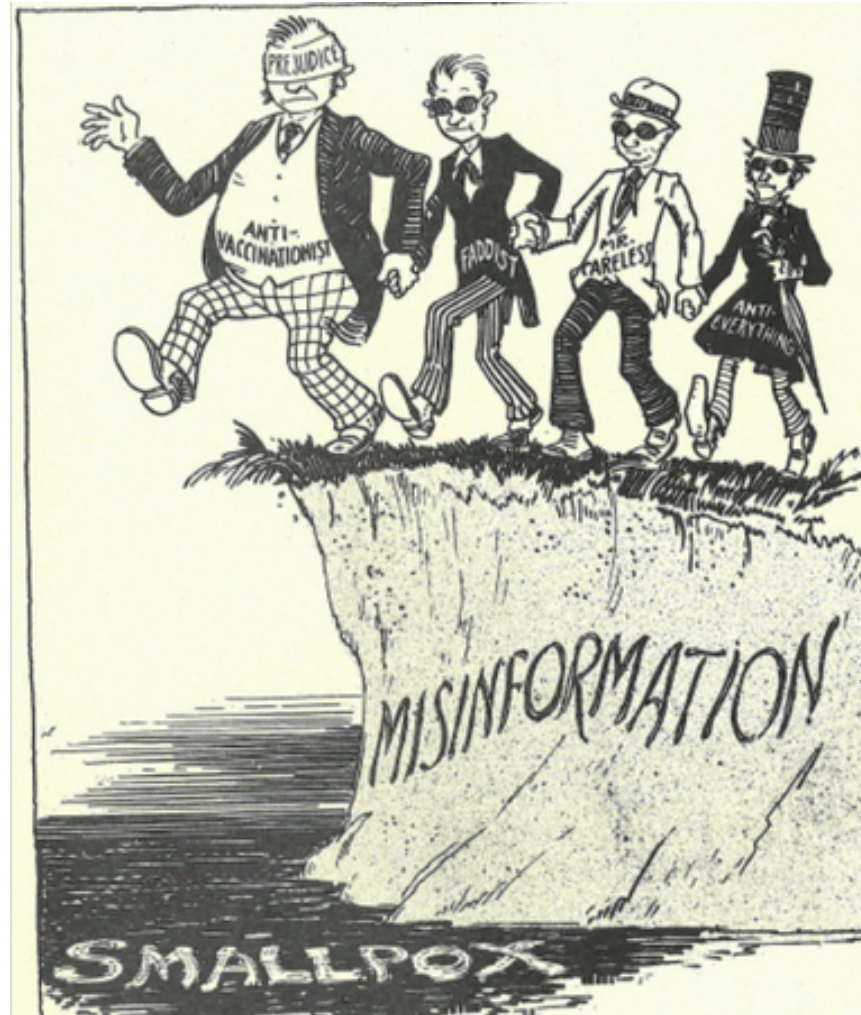


JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

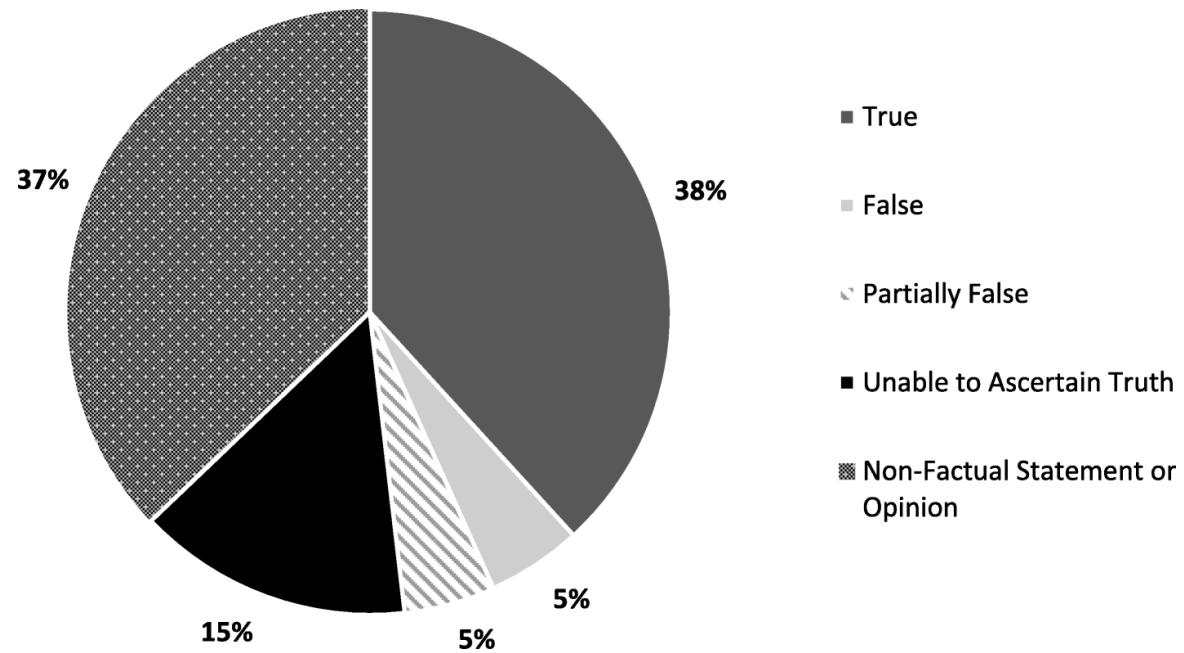
**Center for
Health Security**

Health-related misinformation – Old but New

- Source: “Health in Pictures,” 1930, American Public Health Association
- Fact check: <https://www.snopes.com/fact-check/1930s-cartoon-vaccine-warning/>

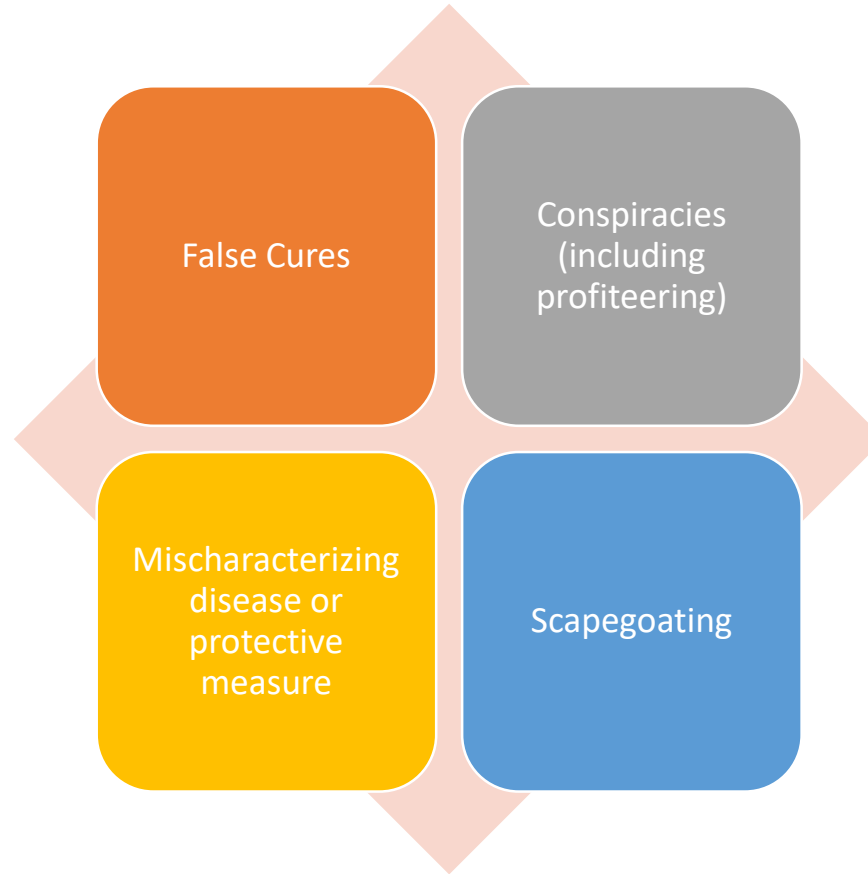


Ebola - Prevalence of Misinformation and True Information Among Non-Joke Tweets



Sell TK, Hosangadi D, Trotochaud M. Misinformation and the US Ebola Communication Crisis: Analyzing the veracity and content of social media messages related to a fear-inducing infectious disease outbreak. *BMC Public Health*. 20, 550 (2020)

Misinformation Rumor Types



Misinformation and Disinformation During the COVID-19 Pandemic



Photo Courtesy of JHU Bloomberg School of Public Health (2021) <https://hub.jhu.edu/2020/03/27/mark-dredze-social-media-misinformation/>

Costs (US)

COVID-19 vaccine misinformation and disinformation (just related to non-vaccination) costs an estimated \$50 to \$300 million each day

An effort that reduced or countered misinformation and was able to reduce related non-vaccination by 10% would be worth between \$5 and \$30 million per day

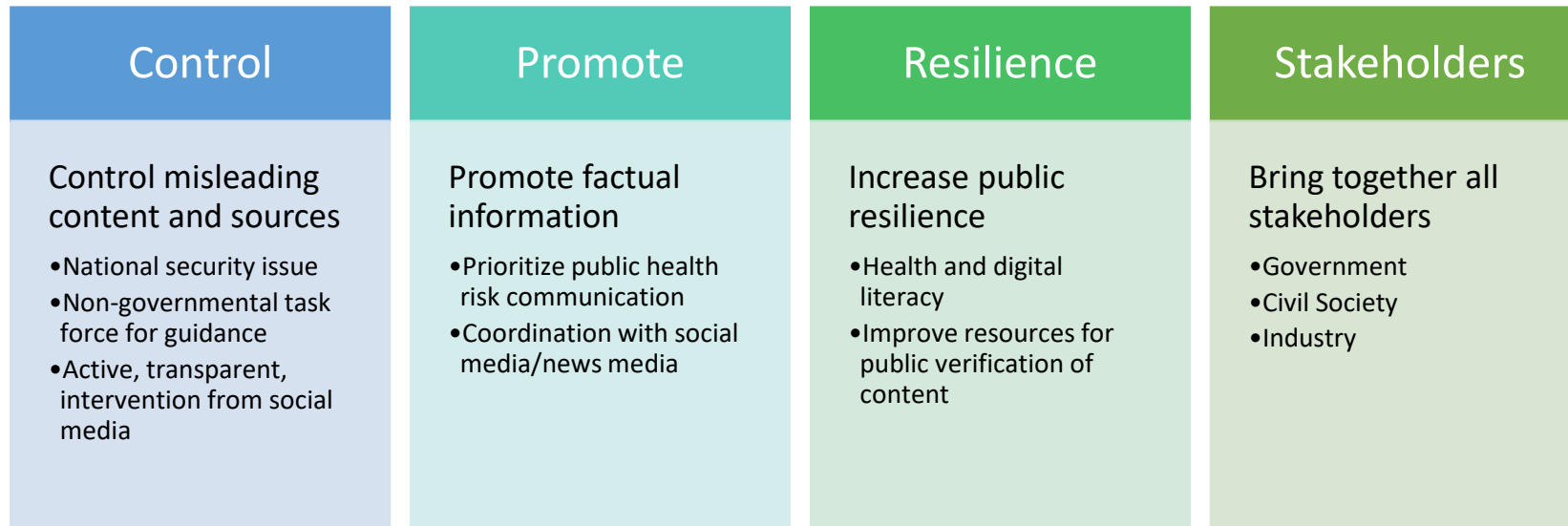
Bruns R, Hosangadi D, Trotochaud M, Sell TK. COVID-19 Vaccine Misinformation and Disinformation Costs an Estimated \$50 to \$300 Million Each Day. October 20, 2021. The Johns Hopkins Center for Health Security. Baltimore, MD.
<https://www.centerforhealthsecurity.org/our-work/publications/covid-19-vaccine-misinformation-and-disinformation-costs-an-estimated-50-to-300-million-each-da>

National Priorities to Combat Health Related Misinformation and Disinformation

A Call for a National Strategy



Key Strategy Pillars





JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

Center for Health Security



National Academies Workshop Panel Misinformation and Disinformation

Wilma Wooten, M.D., M.P.H.

Public Health Officer, Public Health Services
County of San Diego Health and Human Services Agency



March 30, 2022

A wide-angle photograph of a coastal scene at sunset. The sun is a bright yellow orb on the horizon, casting a long, colorful reflection across the sky in shades of orange, red, and purple. The ocean is dark blue with white-capped waves breaking towards the shore. A large, craggy rock formation stands prominently in the water on the right side. The foreground shows a dark, pebbly beach. The overall mood is serene and majestic.

STRATEGIC APPROACH

CORONAVIRUS
DISEASE 2019 (COVID-19)

COVID-19 STRATEGIC APPROACHES FOR EMERGENCY RESPONSE

ICS

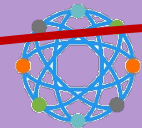
INCIDENT COMMAND SYSTEM



CONTAINMENT AND MITIGATION
(NON-PHARMACEUTICAL INTERVENTIONS)



SECTOR PARTNERSHIPS



COMMUNICATION: INTERNAL & EXTERNAL

T3

T3 STRATEGY: TEST, TRACE, AND TREAT



HEALTH EQUITY



VACCINES



PROBLEM

CORONAVIRUS
DISEASE 2019 (COVID-19)

COVID-19 CLAIMS AND FACTS

CLAIM:

COVID-19 vaccines alter your DNA.



FACT:

It is not possible for COVID-19 vaccines to alter your DNA.

CLAIM: COVID-19 vaccines alter your DNA.

FACT: It is not possible for COVID-19 vaccines to alter your DNA.

- **COVID-19 vaccines do not change or interact with your DNA¹** in any way. Both mRNA and viral vector COVID-19 vaccines deliver instructions (genetic material) to our cells to start building protection against the virus that causes COVID-19. However, the material never enters the nucleus of the cell, which is where our DNA is kept.
- Learn more about **mRNA²** and **viral vector³** COVID-19 vaccines.

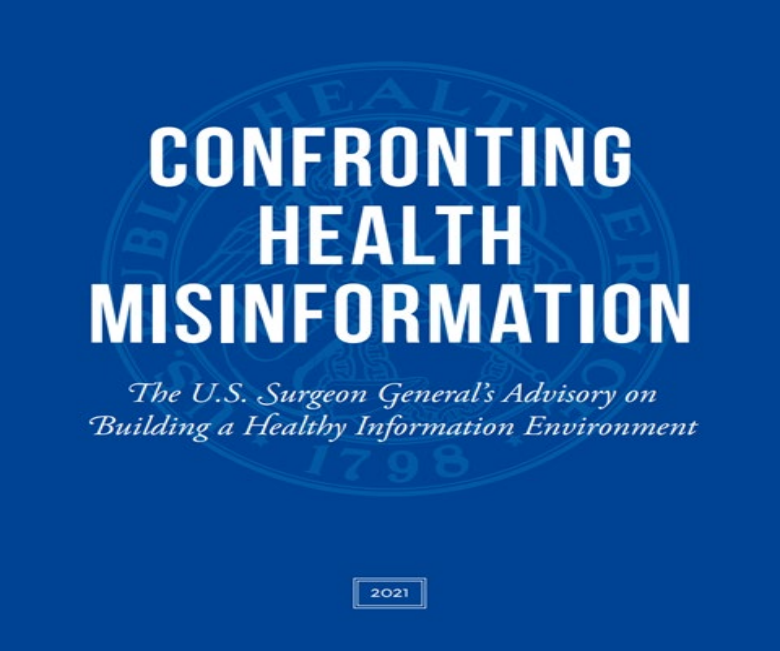
Sources:

¹ <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/facts.html>

² <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/mrna.html>

³ <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/viralvector.html>

HEALTH MISINFORMATION A PUBLIC HEALTH CRISIS

The image shows the cover of a report titled "CONFRONTING HEALTH MISINFORMATION". The title is in large, bold, white capital letters. Below it, in smaller white text, is "The U.S. Surgeon General's Advisory on Building a Healthy Information Environment". At the bottom, there is a small box with the year "2021". The background is dark blue with a faint circular seal of the U.S. Surgeon General.

CONFRONTING HEALTH MISINFORMATION

*The U.S. Surgeon General's Advisory on
Building a Healthy Information Environment*

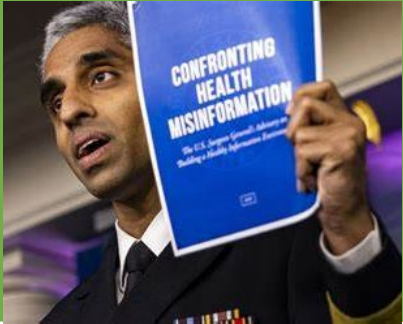
2021

The U.S. Surgeon General's Advisory on Building a Healthy Information Environment calls the American people's attention to health misinformation and provides recommendations for how to build a healthier information environment.

*Addressing health misinformation
will require a whole-of-society effort.*

"I am urging all Americans to help slow the spread of health misinformation during the COVID-19 pandemic and beyond. Health misinformation is a serious threat to public health. It can cause confusion, sow mistrust, harm people's health, and undermine public health efforts. Limiting the spread of health misinformation is a moral and civic imperative that will require a whole-of society effort." – Dr. Vivek H. Murthy

GOAL



To implement strategies cited by the U.S General's Advisory to build a local healthy, safe, and thriving information environment.



Strategy 1: Counter Misinformation

Strategy 2: Community Engagement

Strategy 3: Research Efforts

Strategy 4: Sector Trainings

Strategy 5: Government Partners

Strategy 6: Resource Gaps

Strategy 7: External Website

STRATEGY 1: COUNTER MISINFORMATION

CLAIM VS FACT

Devote resources to identify and label health misinformation and disseminate timely health information to **counter misinformation** that is impeding our ability to keep our communities safe.

Objectives

A.1. Conduct community-based and culturally-and linguistically appropriate messaging to provide factual health information and to dispel myths and misinformation in order to increase COVID-19 immunizations rates.

A.2. Expand website accessibility and information for combating health misinformation in our community.



EVALUATING COVID-19 INFORMATION

NEW WEBPAGE FOR ADDRESSING CLAIMS ABOUT COVID-19

COVID-19

(CORONAVIRUS DISEASE 2019)

COVID-19 (Coronavirus Disease 2019)

[Vaccine](#)
Vaccination sites | Vaccines are free and safe

[Testing](#)
Free testing sites | Sitios de pruebas gratuitas

[COVID-19 in San Diego](#)
Data and dashboards

[Masks](#)
Suggested signage for buildings

Select Language ▼
Powered by Google Translate

Recursos en español
معلومات باللغة العربية
中文信息
Impormasyon sa Tagalog
한국어 정보
Macluumaad Af-Soomaali ah
Thông Tin Bằng Tiếng Việt
Other Languages

COVID-19 Website

COVID-19 Home Page

San Diego County Data

Vaccine

Testing

If You Have COVID-19

If You Are a Close Contact

Health Officer Orders

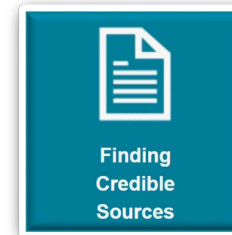
Safe Reopening

Face Coverings

Frequently Asked Questions

Community Sector Support

Health Professionals



- How to Find Accurate Information
- Trusted and Dependable Resources
- Scholarly Journals



COVID-19 Claims and Facts on:

- Children
- Masks
- Testing
- Vaccines



- Overview and Symptoms
- Risk of Infection and Serious Illness
- Testing and Treatment
- Quarantine and Isolation
- Prevention
- COVID-19 Vaccines
- Healthcare
- Congregate Living Facilities
- Social Interactions
- County of San Diego Efforts
- FAQs from Other Sources
- Additional Sources

Evaluating COVID-19 Information

Clarifying misinformation with a focus on information related to health and medical issues.

March 3 Public Health Misinformation Panel

STRATEGY 2: COMMUNITY ENGAGEMENT



Modernize PH communications with investments to better understand gaps in health information, and questions and concerns of the community, especially in hard-to-reach communities. Develop targeted **community engagement** strategies, including partnership with trusted messengers.

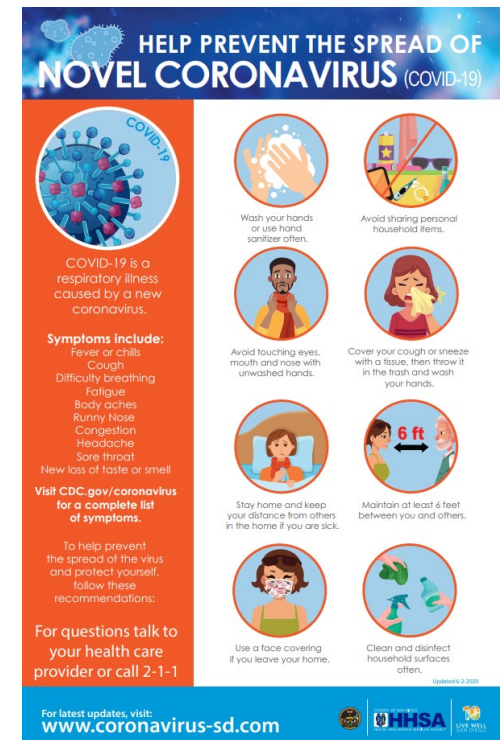
Objectives

B.1. Host critical conversations in the community, with a focus on **high-risk populations**, to discuss the importance of vaccinations.

B.2. Dispel myths and misinformation of providers and their staff by conducting academic detailing with health care providers.

B.3. Address misinformation and disseminate information and links to trusted sources via social media platforms.

B.4. Identify and train trusted community-level spokespersons to communicate the importance of vaccination and the ramifications COVID-19 poses on the community.



STRATEGY 3: RESEARCH EFFORTS



Expand our **research efforts** to better define and understand the sources of health misinformation, document, and trace its negative impacts, and develop strategies to address and counter it across mediums and diverse communities.

Objectives

C.1. Perform a **survey** of unvaccinated persons to better understand San Diegan's view of the COVID-19 vaccines

C.2. Develop **comprehensive media campaign** to counter vaccine hesitancy and address local community members concerns.



STRATEGY 4: SECTOR TRAININGS



Invest in resilience against health misinformation including digital resources and **training for health practitioners and health workers**. Explore educational programs to help our communities distinguish evidence-based information from opinion and personal stories.

Objectives

D.1. Partner with **community practitioners** in addressing vaccine misinformation/hesitancy and develop messaging.

D.2. Partner with **professional healthcare associations** in addressing vaccine misinformation/hesitancy and developing messaging.

D.3. Partner with **healthcare systems** to address vaccine misinformation/hesitancy and developing messaging.

SDABJ San Diego Association of Black Journalists

Myth Busting Covid: Fact or Fiction?

Wednesday, Sept. 22 at 6 P.M.
 **Register on Zoom**

<https://bit.ly/sdabjcovid19>





Angela De Joseph
SDABJ Vice President
Mistress of Ceremonies



Lauren J. Mapp
The San Diego Union-Tribune
Moderator



Natay Holmes
ABC 10 News
Moderator

STRATEGY 5: GOVERNMENT PARTNERS



Partner with federal, state, territorial, tribal, private, nonprofit, research, and other local entities to identify best practices to stop the spread of health misinformation and develop and implement coordinated recommendations.

Objectives

E.4. Partner with educational institutions to address vaccine misinformation/hesitancy and developing messaging.

E.5. Partner with places of worship in addressing vaccine misinformation/hesitancy and developing messaging.

E.6. Partner with media organizations in addressing vaccine misinformation/hesitancy and developing messaging.

E.7. Partner with businesses in addressing vaccine misinformation/hesitancy and developing messaging.

E.8. Partner with community sectors in addressing vaccine misinformation and hesitancy by developing messaging.

E.9. Participate in the COVID-19 Equity Task Force to ensure underrepresented communities are provided access to information and services.

STRATEGY 6: RESOURCE GAPS



Identify **resource gaps** to combating health misinformation and working with state and federal partners to meet ongoing needs.

Objectives

F.1. Disseminate up-to-date state and federal COVID-19 communications to dispel health misinformation in the community (e.g., pregnancy and breastfeeding).



GOAL 7: EXTERNAL WEBSITE



Work with the medical community and local partners to develop a **website** that will serve as a central resource for combating health misinformation in our community.

Objectives

G.1. Develop an external COVID website to combat health misinformation.





Thank You



Addressing the Information Environment

12:15 pm - 1:15 pm ET

ESTHER D. CHERNAK, *MODERATOR*

Associate Clinical Professor
Drexel University Dornsife School of Public Health
Drexel College of Medicine

RAPHAEL M. BARISHANSKY

Former Deputy Secretary for Health Preparedness &
Community Protection
Pennsylvania Department of Health

SUPRIYA BEZBARUAH

Team Lead
Science and Knowledge Translation
World Health Organization

KIMBERLY HENDERSON

Director
Communications and Community Relations
District of Columbia Department of Health

LINDSEY LEININGER

Clinical Professor
Tuck School of Business Dartmouth University

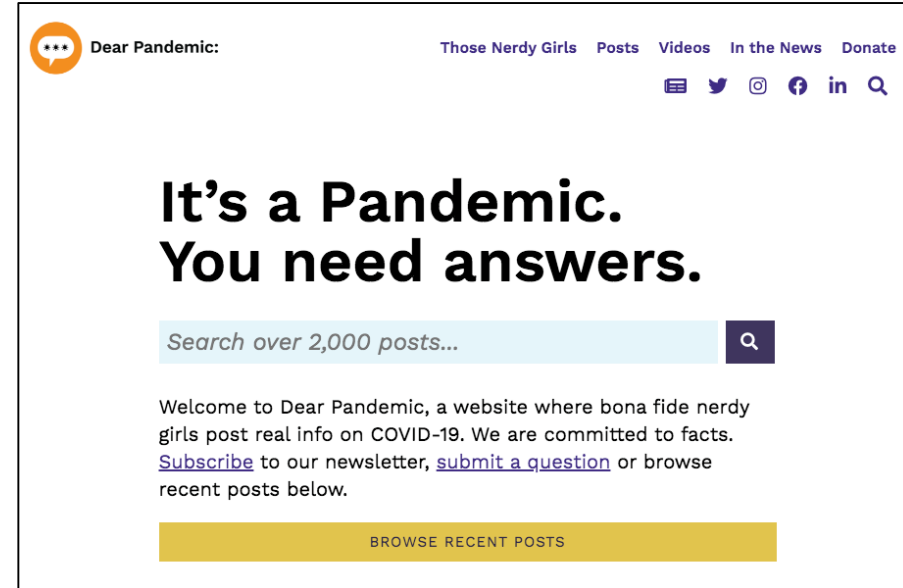
DAVID OLSON

Reporter
Newsday

Submit your questions for the panelists in the [Sli.do](#) below the live stream.

Notes from a Nerdy Girl

THOSE NERDY GIRLS



- Public education campaign turned non-profit science translation platform (!)
- 200k+ readers across social media channels
- 2,000+ evidence-based posts about pandemic-era living
- Website selected for the Library of Congress digital pandemic archive
- Featured at a promising crisis communication case study conference by the WHO

Who the heck are we in the CERC ecosystem?

Deloitte.
Insights

Strategy ▾ Economy & Society ▾ Organization ▾ People ▾ Technol

The future of public health campaigns
by [Kimberly McGuire](#), [RJ Krawiec](#), [Neha Malik](#), [John McInerney](#)

Partner with culturally relevant influencers

naturemedicine

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[nature](#) > [nature medicine](#) > [articles](#) > [article](#)

Article | [Open Access](#) | [Published: 19 August 2021](#)

Effects of a large-scale social media advertising campaign on holiday travel and COVID-19 infections: a cluster randomized controlled trial

[Emily Breza](#), [Fatima Cody Stanford](#), [Marcella Alsan](#), [Burak Alsan](#), [Abhijit Banerjee](#), [Arun G. Chandrasekhar](#), [Sarah Eichmeyer](#), [Traci Glushko](#), [Paul Goldsmith-Pinkham](#), [Kelly Holland](#), [Emily Hoppe](#), [Mohit Karnani](#), [Sarah Liegl](#), [Tristan Loisel](#), [Lucy Ogbu-Nwobodo](#), [Benjamin A. Olken](#), [Carlos Torres](#), [Pierre-Luc Vautrey](#), [Erica T. Warner](#), [Susan Wootton](#) & [Esther Duflo](#) ✉

Nature Medicine **27**, 1622–1628 (2021) | [Cite this article](#)

15k Accesses | **3** Citations | **452** Altmetric | [Metrics](#)

CORONAVIRUS

Social media ‘micro-influencers’ join effort to get America vaccinated

Health care leaders are relying on social media and local doctors and nurses to battle vaccine skepticism, especially in hard-hit minority communities.



A healthcare worker receives a second Pfizer-BioNTech COVID-19 vaccine shot at Beaumont Health in Southfield, Mich. | Paul Sancya/AP Photo

By MOHANA RAVINDRANATH
01/30/2021 07:00 AM EST

[f](#) [t](#) [l](#) [...](#)

“Micro-influencers”?! Maybe?! Feels weird.

My current policy obsession:

**How do we build and scale science
translation platforms in future
emergencies?**

Being at a business school is proving very,
very useful!

Science for Communities in Public Health Emergencies

*Dr Supriya Bezbaruah
Team Lead, EPI-WIN and Science Translation, WHO
Bezbaruahs@who.int*

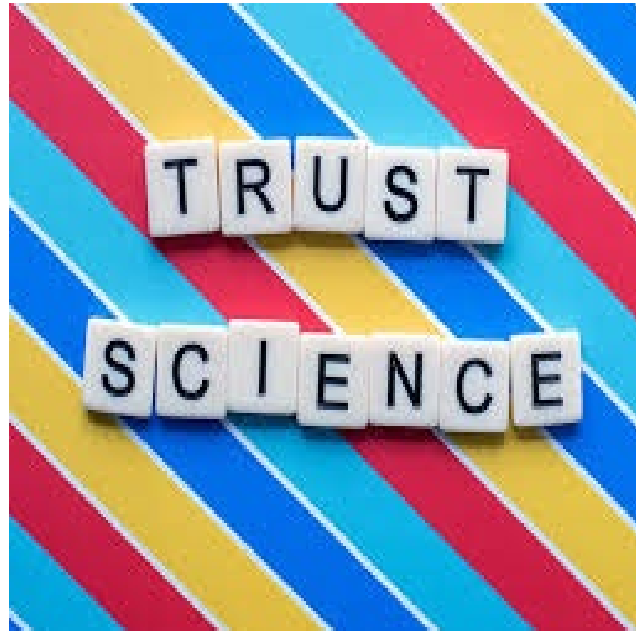


Making science accessible in emergencies



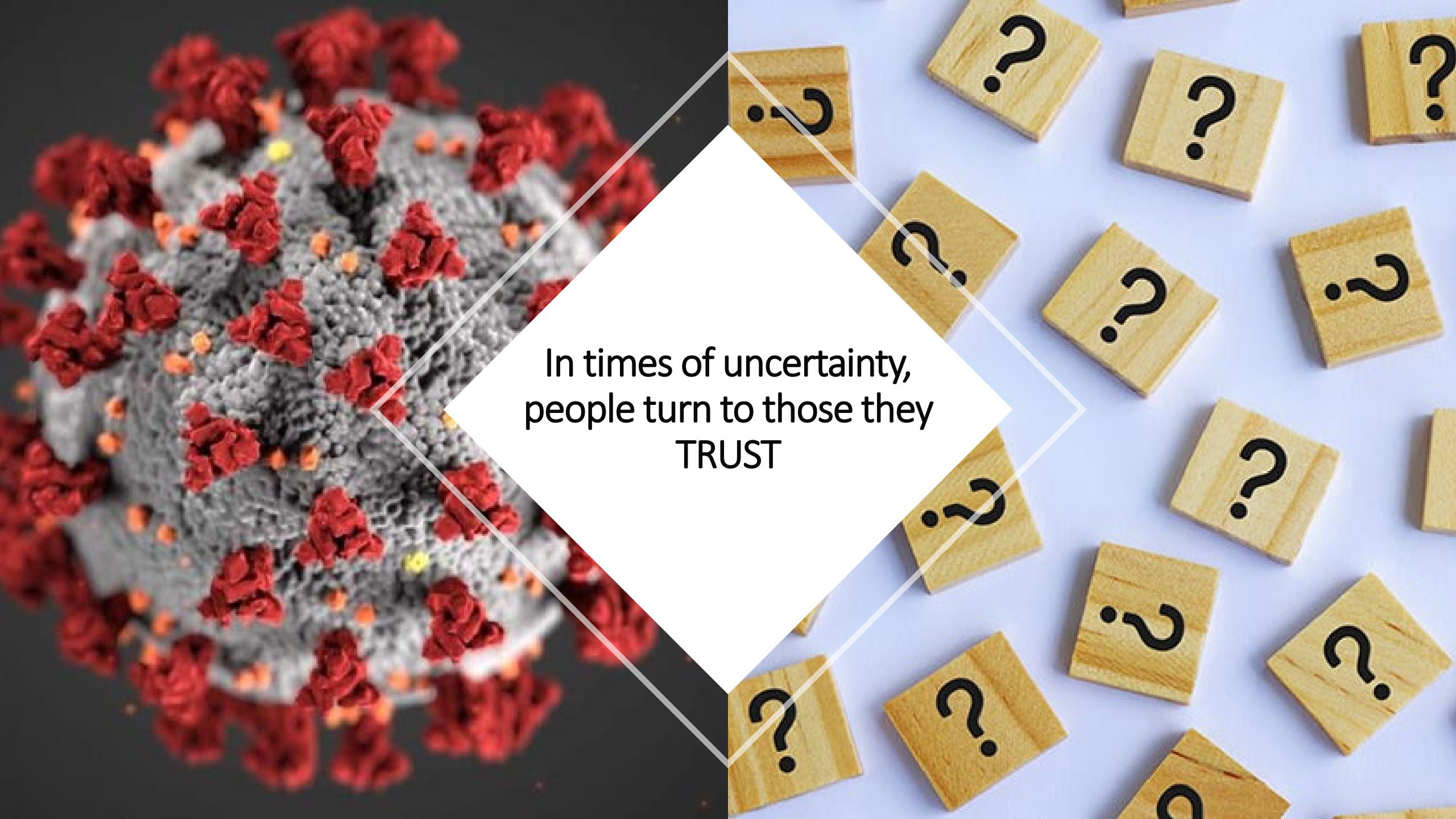
what is long covid-19 syndrome

How are the different COVID-19 vaccines different? How safe are they?



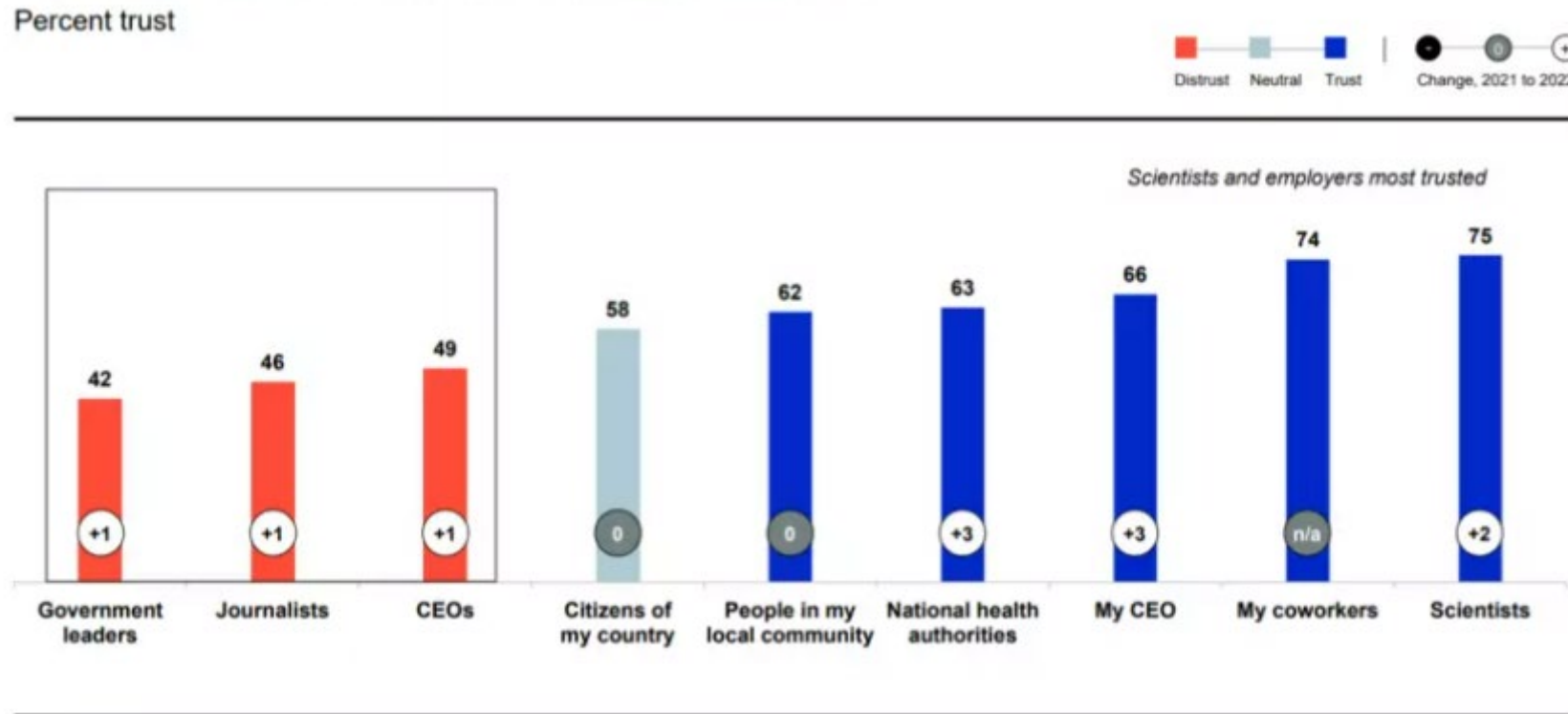
how dangerous is Omicron - Twitter

What are the testing Strategies for COVID-19?

The image is a composite graphic. The left half features a detailed, 3D-rendered virus particle with a grey, textured core and numerous red, irregularly shaped spikes protruding from its surface. The right half is a light blue background scattered with numerous small, light-colored wooden blocks, each bearing a black question mark. A white diamond-shaped area is centered over the image, containing the text.

In times of uncertainty,
people turn to those they
TRUST

Trusted: Scientists, employers, community leaders



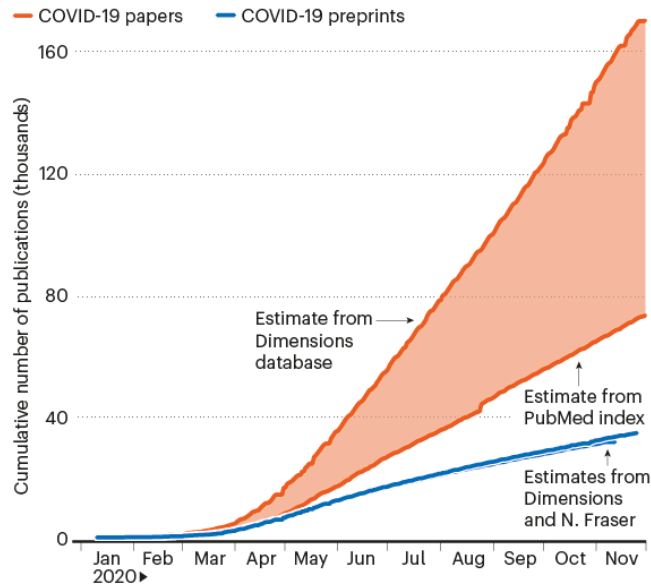
Source:
Edelman Trust
Barometer
2022

Scientists are among the most trusted in society. Image: Edelman Trust Barometer

WHO Epidemic Information Network (EPI-WIN): making information accessible and meaningful

CORONAVIRUS CASCADE

One estimate suggests that more than 200,000 coronavirus-related journal articles and preprints had been published by early December.



*Estimates differ depending on search terms, database coverage, and definitions of what counts as a scientific article; some preprints were posted on multiple sites online.

©nature

Sources: *Journal papers*: Dimensions & Nature tabulations; *Primer* (for PubMed estimate); *Preprints*: Dimensions; N. Fraser & B. Kramer <https://doi.org/10.6084/m9.figshare.12033672> (2020)

Technical briefs,
academic papers,
guidelines,
recommendations

EPI-WIN Updates

EPI-WIN webinars with WHO
experts

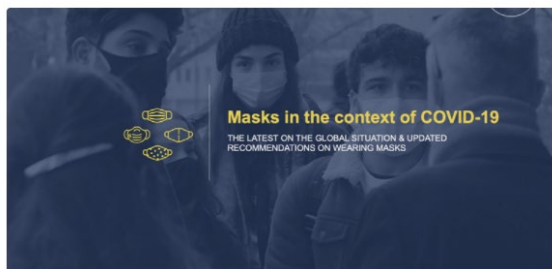
Convene, document, share good
practices on innovative science
communication

Engagement, Co-developing with
EPI-WIN Global Networks: Faith
leaders, Health in the World of
Work, supporting Youth Council

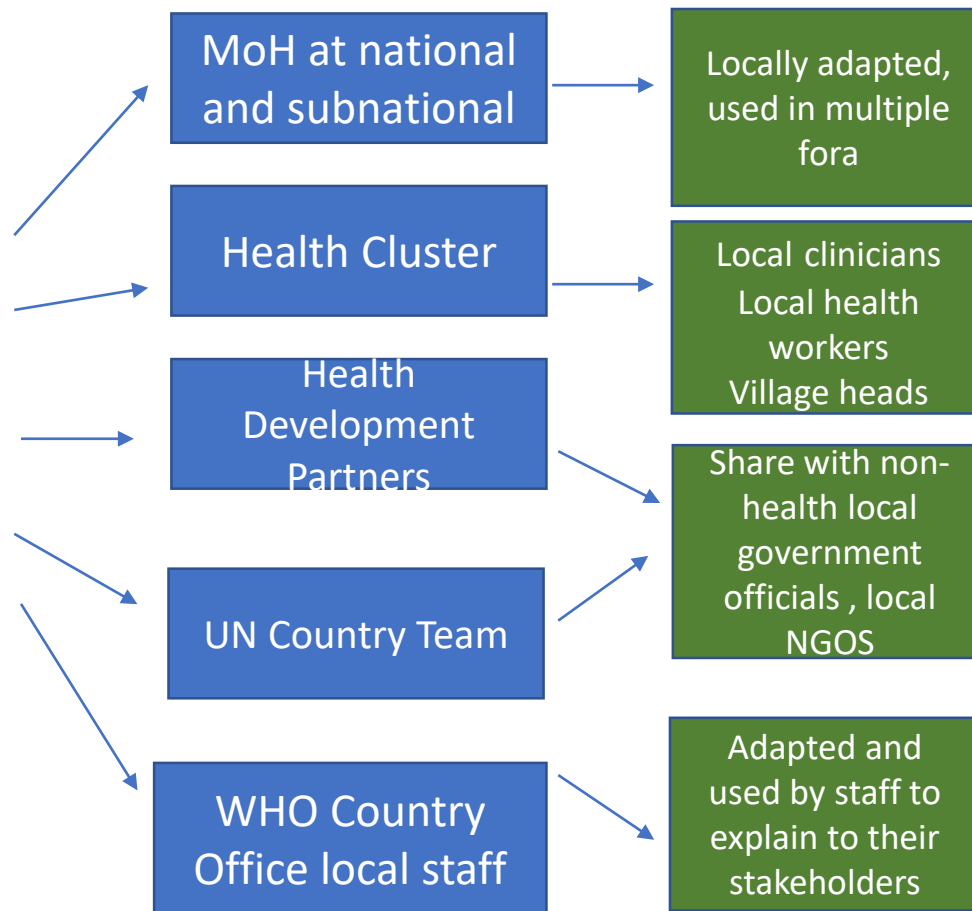
EPI-WIN Distill Science
Network (multi-
stakeholder) in process

EPI-WIN updates: Global info, local solutions

Latest updates



8 March 2022
Update 75 - COVID-19 therapeutics
[Read more](#)



Collaboration between faith and health

- WHO DG Dr Tedros engaged in a **high-level dialogue** with religious leaders hosted by Religions for Peace in early 2021
- WHO-RfP-UNICEF joint webinar series in spring 2021 on COVID-19 **communications and advocacy for vaccine equity, access and uptake**
- November 2021: publication of the ***World Health Organization strategy for engaging religious leaders, faith-based organizations and faith communities in health emergencies***
- Late 2021, global conference co-hosted by WHO and RfP: ***Strengthening national responses to health emergencies: WHO, Religious Leaders, Faith-based Organizations, Faith Communities and National Governments***



Co-developing guidance for industry sectors

- Tourism sector deeply affected by COVID-19
- EPI-WIN team had consultation with partners like Food, Farms, Hotels and Catering Global Union (IUF)
- Mutual listening, discussion and collaborative design
- COVID-19 management in hotels and other entities of the accommodation sector published 25 Aug 2020
- IUF Guide to COVID-19 Occupational Safety and Health (OSH) in hotels published January 2022



Looking Ahead

- EPI-WIN Science Translation Network
 - Involves scientists, media professionals, health professionals, decision makers and others
- Field guides on establishing local platforms for science translation
- Documentation of good practices for innovative science translation
- Engagement with decision makers to support evidence-informed policies and decisions





Perspectives from Invited Workshop Participants and the Public

Participatory Session

1:45 pm ET - 2:30 pm ET

SARAH LUNSFORD
Workshop Consultant & Facilitator
Sarah Lunsford Consulting

Join the Miro Board by clicking the link in the
announcement below

Closing Remarks

SANDRA QUINN, *WORKSHOP CHAIR*

Professor and Chair

Department of Family Science

University of Maryland School of Public Health

ABBIGAIL TUMPEY

Associate Director for Communication Science

Center for Surveillance, Epidemiology, and Laboratory Services

Centers for Disease Control and Prevention

Building Public Trust in Public Health Emergency Preparedness and Response (PHEPR) Science: A Workshop

Thank you for watching!

A summary report of the workshop will be available this summer.

For any questions or comments please contact Matt Masiello
(mmasiello@nas.edu)