

How Infodemics Threaten Public Health

JIFSAN-CFS3 Advisory Council Annual Symposium: Risk Communication: Science vs. Perception – Increasing Challenges Navigating Mis/Dis-Information from Social Media

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JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

**Center for
Health Security**

MISINFORMATION

Information that is false in the context of scientific understanding of the time, often the result of ignorance or poor understanding

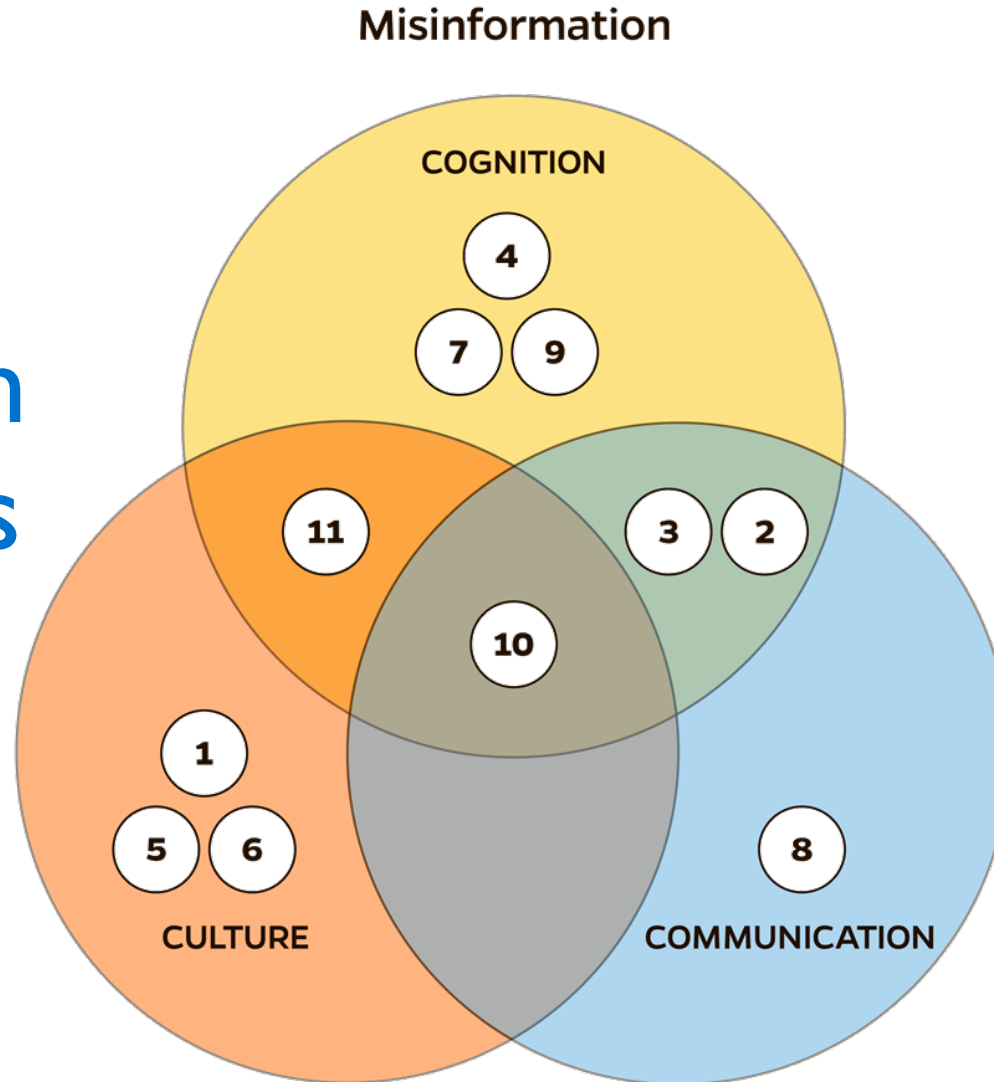
DISINFORMATION

Purposefully created and disseminated falsehoods, in the context of scientific information of the time

INFODEMIC

Too much information, including false or misleading information, in digital and physical environments during a disease outbreak (WHO)

Common rumors during public health emergencies



- 1 Social and cultural narratives
- 2 Manipulated information
- 3 Lack of understanding
- 4 Desire for certainty
- 5 Conspiracy
- 6 Scapegoating
- 7 Mental shortcuts
- 8 False cure
- 9 Overconfidence and complacency
- 10 Organized disinformation campaign
- 11 Apathy

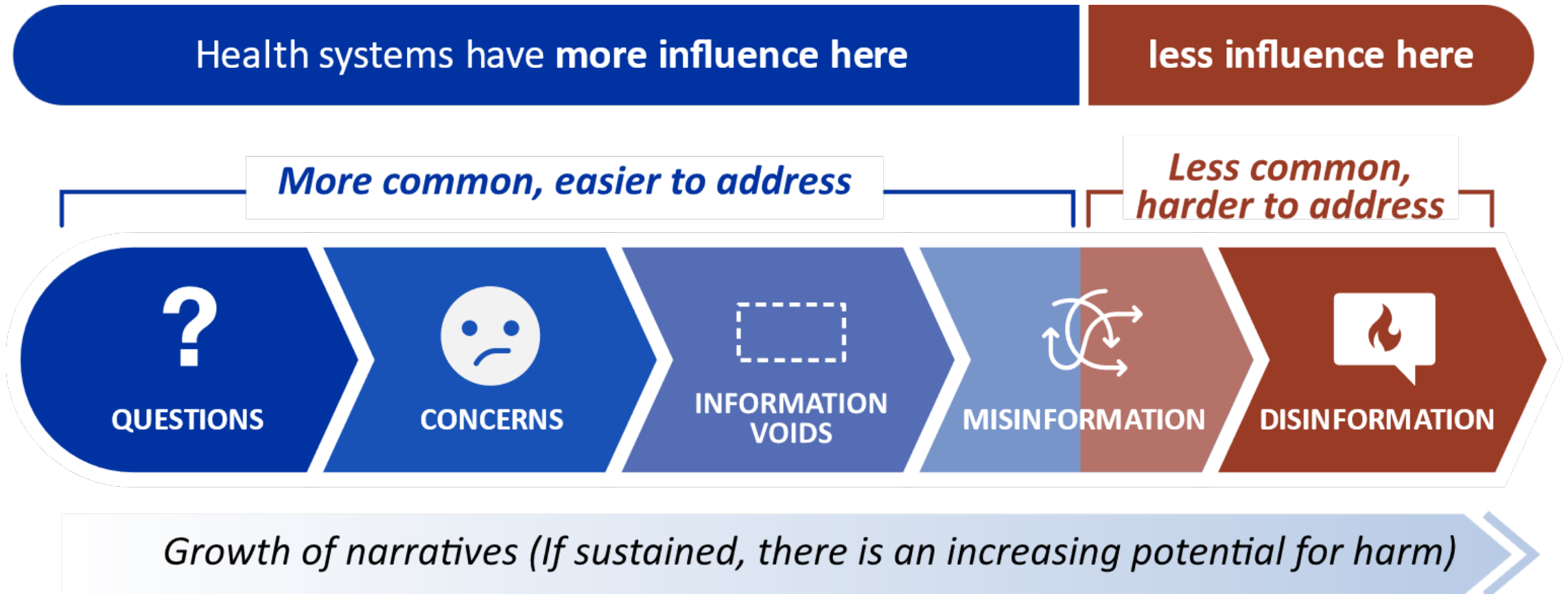
Nagar A, Jamison A, Huhn N, Ford J, Sell TK. Decoding the Rumor Mill: Results from a content analysis to characterize rumors and misinformation that emerged during past public health emergencies in the US. Submitted to Health Communication.

Common rumors during public health emergencies: COVID-19

- Majority of rumors featured social & cultural narratives, misrepresented the pandemic by manipulating information, and/or propagated conspiracies
- Examples of rumors
 - Anti-vaccine sentiments
 - Misrepresenting adverse effects linked to public health measures
 - Claiming that the government is using vaccines to control people
 - Downplaying the impacts of COVID-19
 - Distrust of the government's statistics on COVID-19 death rates
 - Conspiracies related to:
 - the origins of the COVID-19 pandemic
 - microchips in vaccines
 - COVID as a “deep state” plot by the globalist elite to take away our freedoms

Nagar A, Jamison A, Huhn N, Ford J, Sell TK. Decoding the Rumor Mill: Results from a content analysis to characterize rumors and misinformation that emerged during past public health emergencies in the US. Submitted to Health Communication.

It's about more than mis/disinformation.



Adapted from WHO Infodemic Management, Unit for High Impact Events Preparedness and Prevention

Misinformation and Disinformation



Reduce trust in
public health
authorities



Hinder public health
preparedness and
response



Influence health
behavior



Impact health
outcomes





Witnesses saw an armed group harassing Helene aid workers in a small Tennessee town, sheriff says

A sheriff says witnesses reported seeing a group of armed people harassing hurricane relief workers in a remote Tennessee community last weekend

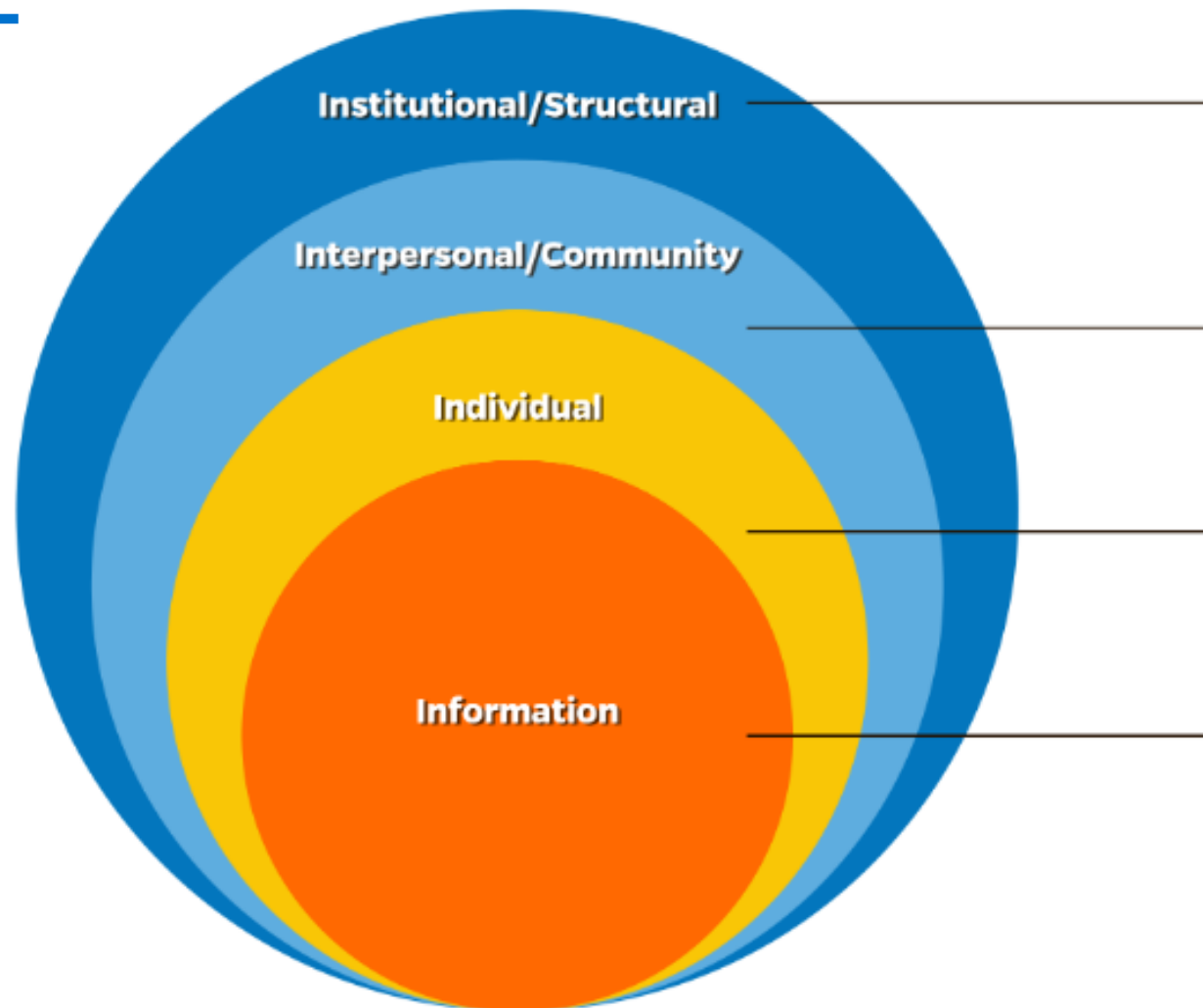
By KIMBERLEE KRUESI Associated Press and SARAH BRUMFIELD Associated Press
October 16, 2024, 2:35 PM



How can we
address and
counter
misinformation?



Framework: 4 i FACT



Institutional/Structural

- Resources & standards for journalists and fact-checkers
- Managing academic/scientific literature
- Resources for infodemic researchers/research
- Resources for infodemic managers
- Social media content policies
- Policy/legislation

Interpersonal/Community

- Resources for public health communicators
- Community engagement

Individual

- Enhancing information literacy
- Prebunking/inoculation

Information

- Amplifying factual information
- Filling information voids
- Debunking false information
- Information tracking
- Verification, credibility, and detection

Sundelson AE, Jamison AM, Huhn N, Pasquino SL, Sell TK. Fighting the infodemic: the 4 i Framework for Advancing Communication and Trust. *BMC Public Health*. 2023;23(1):1662. doi:10.1186/s12889-023-16612-9

TRUST in Public Health website

Visit: centerforhealthsecurity.org/trust



Tackling Rumors and Understanding & Strengthening Trust (TRUST) in Public Health

About the Project



Tackling Rumors



Building Trust



Tools & Resources



TRUST in Public Health

Strengthening trust in public health preparedness and response is critical for improving the United States' capacity to prevent and withstand future public health emergencies. The spread of misleading rumors, misinformation, and disinformation complicates trust-building efforts and can promote narratives that make it difficult to respond effectively to public health events.

This website provides tools, resources, and guidance—developed by the Johns Hopkins Center for Health Security and based on findings from an evidence-informed project—to support practitioners as they work to proactively address misinformation and build, strengthen, and maintain trust in public health, ultimately improving risk communication activities during future public health emergencies.





Misinformation and disinformation reduce people's trust in public health emergency preparedness and response (PHEPR). Declining trust can act as a feedback loop, furthering misinformation.




TRUST in Public Health provides tools to tackle rumors, as well as understand and strengthen trust in PHEPR within an environment of misinformation.



By using these tools, practitioners can improve risk communication, build trust in public health, and help communities become more aware of and resilient to health misinformation.



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VIDEO
Introduction to the website


In this video, we discuss the evidence-informed project that serves as the basis of this website and provide an overview of the importance of building trust in PHEPR in an environment of misinformation. Additionally, we show how to navigate the website to find valuable tools, guidance, and resources.

About the Project




[Learn more about the "TRUST in Public Health" project, including recommendations and the conceptual framework.](#)

Tackling Rumors



[Explore rumors that appeared repeatedly during previous public health emergencies and approaches to address them.](#)

Building Trust



[Learn strategies that can improve trust in PHEPR, including real-life examples from people on the front lines.](#)

Tools & Resources



[Discover our tools and resources for addressing misinformation and building trust in public health.](#)



The playbook provides guidance on ways public health and medical professionals can:



Prepare for health-related rumors



Decide when to act to address misinformation



Determine which actions to take to address misinformation



Develop messages to address misinformation



Gather feedback on messages

Set yourself up for success before rumors spread



Identify 'prework' or things you can do before rumors arise



Put together a team for when you need to address a rumor



Connect with communities and build partnerships



Get to know your audience

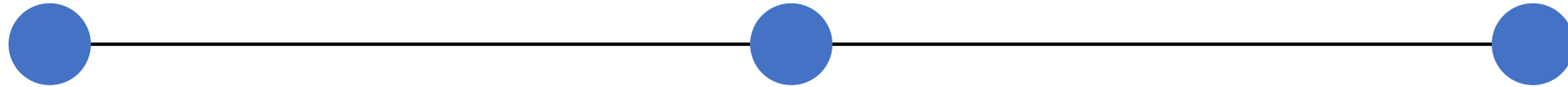


Set up a way to identify misinformation



Answer audience questions and concerns quickly

Decide whether to address the rumor



Identify your goal for responding to a rumor

What is the intended outcome of your message?

What are your larger goals and specific objectives?

Are your goals SMART and tailored to audiences?

Identify what influences your decision to respond

How serious is the rumor?

What is your capacity to act?

How will you account for negative consequences?

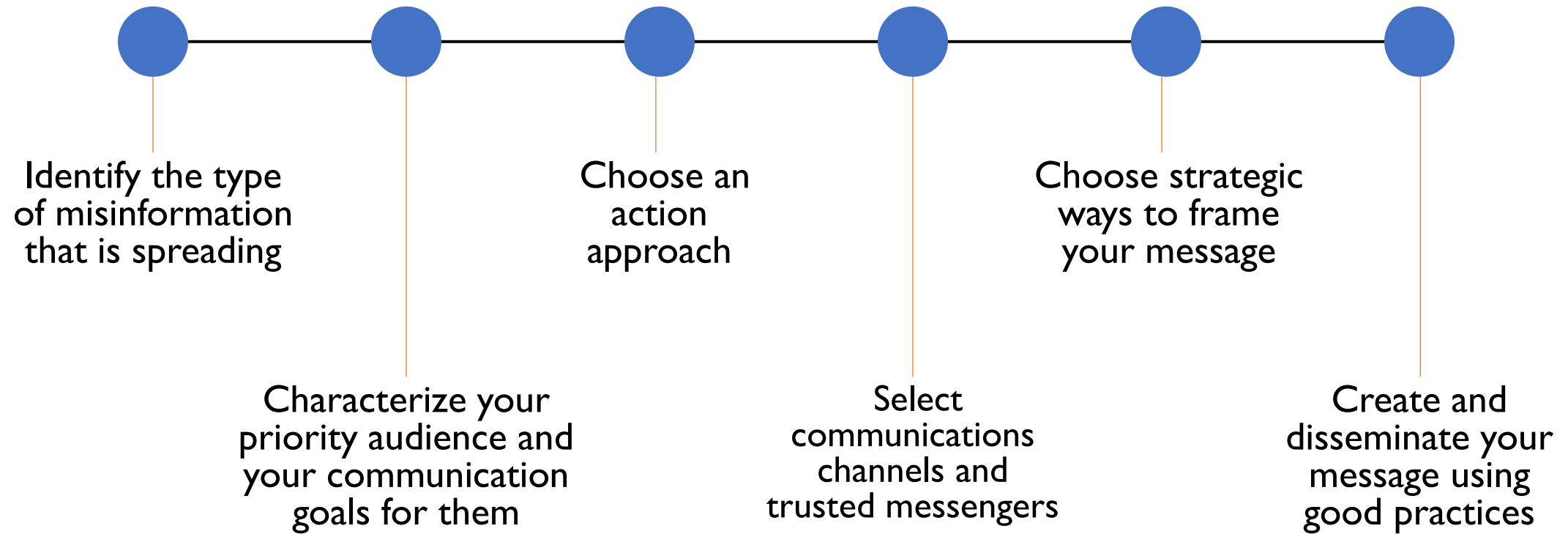
Decide whether you will address the rumor

What minimum conditions do you need to act?

Which conditions immediately trigger action?

Which conditions prevent you from acting?

Take action to address misinformation



Take action to address misinformation

Choose an action approach



Amplify accurate information



Fill information voids



Leverage trusted messengers
and engage communities



Refute, fact-check, or debunk



Prebunk and inoculate



Improve health and
science literacy

Take action to address misinformation

Even if you can't act, address misinformation in other ways



Leverage strategic partnerships

Collaborate with internal and external partners who can address rumors as a part of their work.



Amplify (trusted) influential voices

Help local or national influencers to amplify anti-misinformation messages shared by other trusted organizations



Attend community outreach events

Show up at community events and be available to your community as a resource for addressing rumors in a more casual setting.



Track consequences of not taking action

Watch for negative impacts via social listening/reporting from community partners. Some negative impacts warrant response.



The Checklist provides public health communicators with tools, resources, and internal advocacy opportunities organized across 5 priority sections:

- 1 Focusing on internal operations
- 2 Building connections with the community
- 3 Establishing opportunities with “secondary messengers”
- 4 Anticipating misinformation and loss of trust in a PHE
- 5 Creating meaningful and accessible messages

Priority 1: Focusing on internal operations



Activity 1

Build and maintain a communication workforce that is well-prepared and reflective of the community served



Activity 2

Ensure that existing budgetary, operations, and financing approaches for communication activities reflect prospective needs during an emergency



Activity 3

Know your audience



Priority 2: Building connections with the community



Activity 1

Establish personnel as trusted members of the community



Activity 2

Make strategic and intentional investments in building community



Priority 3: Establishing opportunities with “secondary messengers”



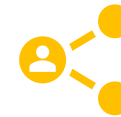
Activity 1

Create a strategy for maximizing the use of secondary messengers in communication efforts



Activity 2

Develop formal processes to engage and incorporate secondary messengers into message development, distribution, and evaluation efforts



Activity 3

Cultivate opportunities for informal sharing of messages



Priority 4: Anticipating misinformation and loss of trust in a PHE



Activity 1

Enable appropriate understanding of what your organization is and does



Activity 2

Set expectations for public health response and communication at the start of a health emergency



Activity 3

Track, analyze, understand, and plan for anticipated rumors in local contexts

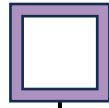


Activity 4

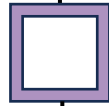
Promote use of and access to trusted sources



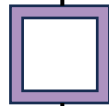
Priority 5: Creating meaningful and accessible messages



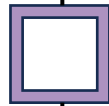
Activity 1
Draft key messages



Activity 2
Tailor messages based on understanding of the intended audience



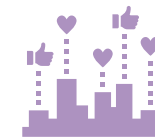
Activity 3
Ensure messages get to intended audiences via preferred channels and trusted voices



Activity 4
Design messages using tone and visuals that will resonate with intended audiences



Activity 5
Regularly evaluate the engagement and impact of communication efforts



COLLABORATION OPPORTUNITY

Are you interested in piloting the *practical playbook for addressing health misinformation* or the *checklist to build trust, improve public health communication, and anticipate misinformation during public health emergencies* in HHS Region 3 (DC, Delaware, Maryland, Pennsylvania, Virginia, West Virginia)?

Reach out to us at anagar1@jh.edu





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