

# **Practical Playbook for Addressing Health Rumors**

February 2024 (Updated May 2025)\*



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**Suggested citation:** Nagar A, Grégoire V, Sundelson A, O'Donnell-Pazderka E, Jamison AM, Sell TK. *Practical Playbook for Addressing Health Rumors*. Baltimore, MD: Johns Hopkins Center for Health Security; 2024.

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#### **Acknowledgements**

This publication was supported by the Centers for Disease Control and Prevention (CDC) of the US Department of Health and Human Services (HHS). The contents, including references to non-US government sites on the Internet, are those of the authors and do not necessarily represent the official views of, nor constitute or imply endorsement by, CDC/HHS or the US government.

This work was initially commissioned for the National Academies of Sciences, Engineering, and Medicine workshop on The Public Health Infodemic and Trust in Public Health as a National Security Threat. The views expressed do not necessarily reflect the views of the National Academies of Sciences, Engineering, and Medicine or the workshop participants or sponsors.

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<sup>\*</sup> The playbook was updated in May 2025.

#### **Contents**

| Glossary of Terms  | i\ |
|--|----|
| Glossary of Icons  | v  |
| Playbook Overview  | v  |
| What is this playbook for?   | 1  |
| Health Information Management and Alert System   | 1  |
| Set yourself up for success before rumors spread   | 3  |
| Identify 'prework' or things you can do before rumors arise  | 3  |
| Put together a team for when you need to address a rumor   | 3  |
| Connect with communities and build partnerships  | 4  |
| Get to know your audience  | 4  |
| Set up a way to identify rumors  | 5  |
| Answer audience questions and concerns quickly   | 6  |
| Step 1: Decide whether to address the rumor  | 8  |
| Step 1.1 Identify your goal for responding to a rumor  | 8  |
| Step 1.2 Identify what influences your decision to respond   | 8  |
| Step 1.3 Decide whether you will address the rumor   | 12 |
| Step 2: Take action to address rumors  | 14 |
| Step 2.1 Identify the type of rumor that is spreading  | 15 |
| Step 2.2 Characterize your priority audience and your communication goals for them   | 16 |
| Step 2.3 Choose an action approach   | 19 |
| Step 2.4 Select communications channels and trusted messengers   | 23 |
| Step 2.5 Choose strategic ways to frame your messages  | 25 |
| Step 2.6 Create and disseminate your messages using good practices   | 26 |
| Step 2.7: Even if you can't act, address rumors in other ways  | 28 |
| Step 3: Evaluate key messages  | 30 |
| References   | 31 |
| Appendix A: Checklist to Build Trust, Improve Public Health Communication, and<br>Anticipate Rumors During Public Health Emergencies | 36 |
| Appendix B: Audience Persona Characterization Tool   | 40 |
| Appendix C: Worksheet for Developing Messages to Counter Rumors  | 42 |
| Appendix D: Message Framing Strategies and Templates   | 45 |
| Appendix E: Developing Messages Using LLMs   | 52 |
| Appendix F: List of Tools  | 55 |

#### **Glossary of Terms**

- Amplification: The process of spreading specific information, whether factual or not, and
  increasing its reach by sharing and discussing on communication platforms (eg, social media,
  local news, radio, etc.).
- Data/Information Void: A lack of reliable or accessible data or information on the health issue of concern.
- Debunking: The process of exposing, refuting, or correcting false or misleading information spreading in a community. This includes fact-based, logic-based, and source-based debunking.
- Escalating Public Health Issue: A public health event with the potential for increasing misunderstanding or rumors.
- High/Low Trust: The levels of trust between individuals or communities and health authorities.
- **Infodemic:** The overabundance of information—both accurate and inaccurate—related to an escalating public health issue.
- Inoculation: The process of teaching people to identify and refute misleading or false information. Inoculation messages—which typically contain a warning that the user will see misleading rumors or false narratives, information to help the user spot and refute the rumor, and an example of false or misleading rumors users can identify in the future—are meant to build cognitive resilience to such claims in the same way vaccines prompt the human body to create antibodies to fight against future infections.¹
- Large Language Models (LLMs): A type of artificial intelligence that has been trained using
  huge amounts of data to understand and generate human-like language (eg, OpenAl's ChatGPT
  series, Meta's LLaMA, and Google's PaLM2).
- Health/Science/Media Literacy: A person's ability to effectively access, analyze, interpret, evaluate, and use information to make informed decisions about their health, scientific facts, and media content.
- **Plain Language:** Written or spoken communication that uses clear and concise language to help the intended audience understand the first time they encounter it.
- Prebunking: The act of addressing or refuting potential false or misleading rumors before an
  individual is exposed. This involves educating people about common tactics of deception or
  manipulation, encouraging critical thinking, and engaging target audiences.
- Public Health Emergency Preparedness and Response (PHEPR): Engagement in public health
  activities that aim to prevent, protect against, quickly respond to, and recover from public health
  emergencies.<sup>2</sup>
- Rumor: A claim that is untrue, may be untrue, or is misleading.
- Secondary Messenger: People and institutions outside of public health departments and government agencies that play important roles in PHEPR, including disseminating health messaging, building trust in public health, and dispelling rumors.

- **Social Listening:** The process of tracking information on communication platforms to identify false narratives or information gaps about an escalating public health issue.
- **Trusted Messenger:** Someone who is perceived as reliable, credible, and trustworthy to a target audience.

#### **Glossary of Icons**

This playbook uses icons to identify or indicate certain topics, described below:

- The hammer indicates toolkits or resources that can help you complete action items. For a complete list of these resources, see <u>Appendix F</u>.
- The lightbulb indicates helpful tips to consider when completing action items.
- The magnifying glass gives you a closer look into specific topics related to the playbook.
- \$ The dollar sign indicates tools with subscription fees.
- The fast-forward symbol shows other actions you can take if you have the time and resources.

#### **Playbook Overview**

Rumors can make health events more complicated, reduce trust in public health efforts, and lead to negative health impacts. The *Practical Playbook for Addressing Health Rumors* provides guidance on ways public health and medical professionals can set themselves up for success, make decisions on when they need to act to address health-related rumors, choose which actions and approaches might be useful to their audiences and information needs, and evaluate how their efforts are working. It also provides tools, templates, and examples to help with these efforts. Although there is no "silver bullet" to solve the problem of public health rumors, this playbook helps to lay the groundwork for health communicators such as yourself to address the issue.

For a rapid review of content within the playbook, use the checklist below. The rest of the playbook outlines these tasks with more specific tips and tools for how to approach the following activities.

#### Set yourself up for success before rumors spread ☐ <u>Identify 'prework' or things you can do before rumors come up</u>. Think ahead—before a rumor spreads or an emergency occurs—about possible rumors, successful approaches from the past, ways to improve the public's resilience to false or misleading narratives and their knowledge of public health activities, and conduct the work outlined in the playbook. Put together a team you can call on when you need to address a rumor. Work to understand resources, responsibilities, procedures, skills, and available staff and experts you can turn to during a response. Leadership buy-in is important as well. Connect with communities and build partnerships. Engaging with community members and building partnerships enables communication through trusted messengers and networks. These relationships are best built over time. Get to know your audience. Make sure you understand who your audience is, the kind of communication they prefer, and how to be responsive to their needs. Set up a way to identify rumors. To fill information gaps and respond to rumors, figure out which questions you will need to answer and what misleading claims are circulating. Establish social listening activities ahead of time through community partners and/or by using technology platforms. Answer your audiences' questions and concerns quickly. You may be able to prevent the need for a rumor response by filling information gaps and answering questions quickly and effectively. Getting ahead of rumors in this way is often more effective than responding to rumors that start to circulate later. Decide whether to address the rumor

- ☐ <u>Identify your goal for responding to a rumor</u>. Determine the intended outcome of messaging efforts, any larger goals and specific objectives you want to achieve, and what audiences want or need in the situation.
- ☐ Identify what influences your decision to respond. Build a common understanding of why you want or need to respond. Identify the factors you should consider when choosing your response to a rumor. Factors often revolve around the seriousness of the rumor, capacity to act, and potential consequences.

|   | <u>Decide whether you will address the rumor</u> . Not all rumors can or should be addressed. You and your team will need to consider all influencing factors together to decide if you should take action to address rumors. Sometimes, not acting is the best decision. During emergencies, these decision-making processes may change as priorities change.  |
|---|---|
| _ |   |
|   | ke action to address rumors  Identify the kind of rumors that are spreading. Rumors often recycle common misleading narratives. These patterns can help you organize your approaches to misinformation and consider actions that may be successful for a narrative of concern. Consider levels of risk from rumors, which can influence the extent of effort that should be made to manage them.  |
|   | Characterize your priority audience and your communication goals for them. Upon detecting rumors, identify the audiences you want to focus on. Often, these are groups of people who may be most impacted or would be most likely to believe a rumor. Goals for these populations often include raising awareness about relevant facts, building resilience, and/or providing factual counterpoints.  |
|   | <u>Choose an action approach</u> . You can approach rumors in different ways, and some require more resources than others. Often, these include amplifying accurate information, filling information voids, leveraging trusted messengers and engaging communities, fact-checking/debunking, prebunking/inoculating, and/or improving health literacy.  |
|   | <u>Select communications channels and trusted messengers</u> . The best communications channel(s) for a message that addresses a rumor is the platform(s) on which it is spreading. Prioritize these channels by how accessible messages will be to target audiences. You can add other channels—like social media, in-person engagement opportunities, and traditional and digital media—to your priority list based on their popularity, user-friendliness, and/or trustworthiness. |
|   | <u>Choose strategic ways to frame your messages</u> . You can guide audiences toward receiving messages in intended ways by framing them strategically. Match messages to the motivations of audiences, such as by framing information that audiences might not accept easily in a way that aligns with their moral values or by focusing on desirable outcomes or benefits they can receive.   |
|   | <u>Create and disseminate your messages using good practices</u> . Messages should be structured in ways that highlight empathy, connect with audiences' values, empower action, and address misleading claims. Use plain and accessible language, tone, and visuals that resonate with audiences when creating messages. You may need to adjust approaches to be effective across different audiences.   |
|   | Even if you can't act, address rumors in other ways. Sometimes it may not be appropriate to respond to a rumor. Still, you can rely on strategic partners, amplify trusted voices, and continue to engage in community outreach activities. It is also important to keep reassessing the decision not to act in case the situation gets worse.  |
|   |   |
| _ | aluate key messages   |
|   | <u>Gather feedback about your messages</u> . Although understanding the effectiveness of messages and efforts to manage rumors are difficult, these activities will help you know if messages are understandable, relevant, or effective and if they are reaching intended audiences.   |

#### What is this playbook for?

This Practical Playbook is designed to help public health and medical professionals and other health communicators—such as yourself—understand when to step in and what actions to take to address rumors and false narratives related to public health issues.

The playbook can help you (1) **prepare for** health-related rumors, (2) decide **when to act**, (3) determine which **actions to take** to address rumors, (4) **develop messages** to address rumors, and (5) **gather feedback** about your messages.



#### The actions outlined in the playbook assume the following:

- Your institutional leadership supports rumor management activities.
- Staff members are available and have the time and resources to carry out the suggested actions.
- Your organization can identify rumors that are circulating.

**Note:** This playbook's recommended actions may help manage the spread of rumors and the problems they creates but are unlikely to completely alleviate the concern.

#### **Health Information Management and Alert System**

This playbook builds on the Centers for Disease Control and Prevention's (CDC) Health Information Management and Alert System (HIMAS) (Figure 1), which provides a framework to monitor and assess circulating health rumors.\* HIMAS contains 4 phases:

- 1) **Pre-planning**, which includes thinking about risks ahead of time, pinpointing where you can get data, coming up with a strategy for flagging rumors, and identifying who does what;
- 2) **Monitoring, analysis, and insights**, which includes analyzing and sharing the kind of rumors that come up, revising messages to address these rumors, learning about your audience, and telling partners about what is going on and how you will respond to rumors;
- 3) Actions, which includes bringing together anyone who can help respond to rumors, making improvements to public health programs, testing messages, doing research, and reducing harm by addressing rumors across different communications channels; and finally,
- 4) **Evaluation and refinement**, which includes analyzing message needs, measurements, and inputs from your audience and partners; adjusting the communication cycle based on that information; and planning for next steps.

<sup>\*</sup> Betsy Mitchell, email communication, February 5, 2024

#### **CDC's Action Plan:**

Health Information Management and Alert System (HIMAS)



Figure 1. CDC's Health Information Management and Alert System (HIMAS)

#### Set yourself up for success before rumors spread

It is important for you and your team to plan for rumors before an escalating public health issue (ie, a public health event with the potential for misunderstandings and rumors to arise). These plans ensure that you and your team are ready to act when rumors spread or as a part of public health emergency preparedness and response (PHEPR) efforts.

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

Before a public health issue escalates enough to result in misleading narratives, you can do "prework" activities to prepare for rumors. For example, you can:

- Identify and anticipate the rumors that come up repeatedly in the community
  and identify ways to prebunk these rumors (ie, discuss false claims in advance) or
  inoculate people against them (ie, inform people about potential rumors). Craft
  messaging to address repeat rumors and update them to address possible future
  rumors.
- Keep track of which actions helped address rumors in the past and identify strategic actions for the future.
- Engage in activities aimed at improving the public's resilience to misleading rumors and build their trust in public health.<sup>3</sup>
  - Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies
- Carry out programs that improve understanding of what public health does and the role it plays in society.
- Fill out the worksheet in <u>Table 1</u> to pinpoint which factors influence decisions on when and how to address rumors. For instructions on filling out this worksheet, see <u>Step 1.2 Identify what influences your decision to respond</u>.



**Tip:** Check out the <u>Glossary of Terms</u> to understand what terms like prebunking and inoculation mean.

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

Looking out for and responding to rumors can take a lot of time, dedication, and skill. Before rumors come up and as part of your PHEPR efforts, you should put together a multidisciplinary team of people (such as communication personnel, social media/digital technical staff, subject matter experts, partners, etc.) who can address rumors in a quick and coordinated way that is supported by your organization's leadership. You and your team can:

 Identify and understand available resources, specifically whether you are working in a very limited environment, have some resources and flexibility, or have many dedicated resources.

WHO/UNICEF: How to build an infodemic insights report in 6 steps: Annex A7

- Outline the roles, responsibilities, knowledge, skills, and abilities needed to prepare for and respond to rumors.
  - ★ WHO competency framework: Building a response workforce to manage infodemics
- Coordinate among people and teams to clarify roles and responsibilities, as well as who will make final decisions.<sup>4</sup>
- Put together a list of subject matter experts who can provide advice, such as scientists who are influenza experts and could provide input during an influenza epidemic.<sup>5</sup>
- Get institutional buy-in from all relevant levels of leadership to address rumors and false narratives when warranted.

#### **Connect with communities and build partnerships**

Connecting with communities and building partnerships before public health issues escalate is important groundwork. For example, you and your team can:

- Use community engagement approaches to connect with communities and involve the public in decision-making.
  - Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies
- Set up a way to gather information and feedback from members of the public.
- Work closely with partners that already have strong communication platforms and have earned community trust.
- Build relationships with diverse secondary messengers and community partners, especially partners who can share messages that will be trusted within their own communities.
  - FrameWorks: Must-Have Messenger Mindset
- Build a network of trusted messengers—people who understand their community's needs and can help reach audiences in effective ways.<sup>6</sup> For example, people who don't trust the government may be more likely to listen when a local community leader is addressing rumors rather than an official state or federal health department spokesperson.<sup>3,7</sup>
- Strengthen relationships with existing networks of colleagues.

#### **Get to know your audience**

Make sure you understand who your audience is and adjust messages to meet the unique needs of different audiences. To accomplish this, you and your team may:

- Ask questions about who you are communicating with, what they do or don't know about public health issues, and what questions they may have about an escalating public health issue.
  - PHCC: Plain Language for Public Health: Defining Your Audience and Goals

- Understand which channels your audience uses to communicate, learn, and receive information. You should share your messages on these channels to reach more people.
  - ✓ <u>UNICEF: Vaccine Misinformation Management Field Guide: Information Ecosystem Assessment</u>
- Create an audience persona to understand different levels of trust in public health audiences and how messages need to be tailored.
  - Appendix B: Audience Persona Characterization Tool
- Identify which audiences are likely to be impacted or change their beliefs/behaviors based on your approach.<sup>†</sup>
- Collect input from your target audiences to understand which communities are susceptible to different types of rumors.
  - WHO/UNICEF: Infodemic Insights Report: Defining risk assessment criteria
- Learn about new and existing audiences by reviewing relevant research, examining work done with or about these groups, holding listening sessions, and talking about audience needs and beliefs with partners who represent them.

#### Set up a way to identify rumors

Social listening is a form of information tracking used to identify false claims or information gaps within a community.<sup>8</sup> It is a foundational tool of infodemic management<sup>9</sup> and allows health communicators to better address people's information needs by filling information gaps, answering relevant questions, and managing misleading information.<sup>10</sup> To engage in social listening, you can:

- Ask community partners what information they know is circulating.
- Monitor comment sections in relevant media platforms such as X/Twitter (easiest),
   Facebook, Instagram, TikTok, and WhatsApp (hardest), which have built-in analytics that are free, quick, and easy to gather for resource-limited settings.<sup>11</sup>
- Identify the sources and individuals spreading rumors.
- Monitor trending hashtags associated with identified rumors and intentionally false narratives.
- Use internal social listening tools such as monitoring of call center questions or noting questions asked at in-person events.<sup>5</sup>
- Use the following free, easy-to-use social listening tools to enhance the previous information tracking efforts on media platforms:
  - ▲ Google Alerts. Platforms covered: web content, including web pages, blogs, news sites, YouTube, etc. Search capabilities: keywords.
  - <u>↑ Talkwalker</u>. Platforms covered: blogs, websites, forums, and social media.<sup>11</sup>

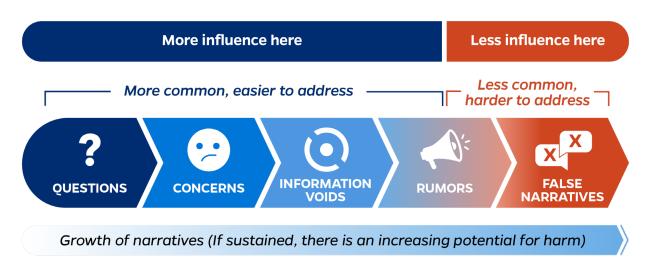
<sup>†</sup> Nick Moran and Lindsay Smith Rogers, MA, private correspondence, October 2023



**Tip:** Take care to select the right search terms and avoid making your search too narrow by using too many keywords. Fewer search terms will yield more results. Remember to adapt your strategy as the public health issue escalates!

#### **Answer audience questions and concerns quickly**

Communication needs range from questions and concerns about a public health issue to clear-cut misleading rumors and false narratives (Figure 2). One of the best ways to keep rumors from arising is to answer questions and concerns when you detect them, before these spaces are filled by misleading information.



**Figure 2.** Spectrum of health narratives during escalating public health issues. Modified from WHO Infodemic Management, Unit for High Impact Events Preparedness and Prevention

You can do the following to understand audiences' questions and concerns:

- Notice questions and concerns on social media platforms, through social listening efforts and by encouraging partners to pass along community members' concerns.
- Pay attention to questions and concerns during the beginning of an escalating public health issue or when a new intervention, guidance, or therapy is released, as this is often when information is evolving.
- Plan to fill knowledge gaps quickly, directly, and honestly. You can do this by
  answering questions as they come up through interactive sessions or by compiling
  them and answering them all together. Addressing concerns upfront is easier
  and more effective than trying to expose, correct, or refute misleading or false
  narratives later.

These steps can help prepare you to address health-related rumors in real time. The next sections of this playbook provide information on how to manage emerging rumors.

#### **>>**

#### If you have more time and resources:

- Create standard operating procedures so that people who are responsible for responding to rumors are ready to act and react in a quick and coordinated way.<sup>12</sup>
- Conduct studies, polls, or other activities to understand factors that influence how your target audience may receive and potentially react to health-related messages. <sup>13,14</sup> This information can help you adjust messages for different audiences.
- Use more advanced social listening tools.
  - **Meltwater**
  - Sprout Social
  - \$ XPro (formerly TweetDeck)
  - **\$** Awario
- Implement long-term efforts to improve the public's resilience to information that may mislead them and reduce their trust in public health.
  - Appendix A: Checklist to Build Trust, Improve
    Public Health Communication, and Anticipate
    Rumors During Public Health Emergencies
- Improve health and science literacy to help people better understand and cope with the fact that scientific knowledge and guidance evolves all the time.<sup>15</sup>
- Make people aware of common tactics of deception or persuasion (eg, when people refer to fake experts, use emotional language, or misdirect blame on other people).<sup>16,17</sup>



## You got an alert that a rumor is going around. What do you do next?

#### Step 1: Decide whether to address the rumor

#### Step 1.1 Identify your goal for responding to a rumor

Often, you may need to either (1) conduct further research on an issue, (2) make programmatic changes, or (3) communicate a message. This playbook provides guidance for responding to a rumors via communication efforts. Before you proceed with these communication efforts, identify your desired goal(s) of responding to a rumor. To do so, consider:

- The **intended outcome** of any message created to address a rumor (eg, to raise awareness of a rumor before it spreads widely, or prebunk)
- Any larger goals and specific objectives you hope to achieve (eg, improving people's trust in vaccines)
- Using specific, measurable, achievable, relevant, and time-bound (SMART) goals that are **clear**, **achievable**, **and meaningful**<sup>18</sup>
  - Mindtools: SMART Goals
- Linking these goals to audience-specific communication goals later in <a href="Step 2.2">Step 2.2</a>
  Characterize your priority audience and your communication goals for them.

#### Step 1.2 Identify what influences your decision to respond

Many factors influence whether you do something about rumors. You and your team can work together to balance how these factors affect your decision to respond. For example, you may care about:

- The seriousness of a viral rumor: how much a rumor is spreading, how many people a rumor is reaching on social media, whether the rumor is hurting people, who the rumor is hurting, or how believable or powerful the person or entity spreading the rumor seems.
- Your capacity to act: whether there is enough scientific evidence to prove that a rumor is false, whether your institution approves of you responding to the rumor, or whether there is enough funding to develop and share messages.
- Reducing negative consequences: whether unfavorable outcomes could result from addressing a rumor, such as accidentally amplifying misleading information, pushing away some audiences, making public health workers a target of harassment, or filling gaps in knowledge with incomplete or incorrect information.

To streamline this process, you can fill out the worksheet in <u>Table 1</u> using the following instructions. You can download and edit the tool at this <u>link</u>:

1. Make a list of factors that influence your decision to address a rumor. Add them to the "Decision Criteria" column, as shown.



**Tip:** Make sure these factors are relevant to your organization. You can also complete this step as prework, so this list is already filled in when a rumor surfaces.

2. Add plain language definitions of the factors that influence your decision to the "Criteria Definition" column.



**Tip:** Make sure the decision-making team has a shared understanding of what these influencing factors mean. You can also complete this step as prework so that this column is already filled in when a rumor surfaces.

3. For each influencing factor, write down the benchmark you will use to decide whether it is time to act. Add this to the "Benchmark" column.



**Tip:** You can use a mix of quantitative and subjective benchmarks. For example, to measure the spread of a rumor, you could use a benchmark like "rumors must make up 75% of health narratives collected by our social listening system" or "subject matter experts think that this rumor is spreading (Yes/No)." You can also adapt more standard benchmarks, like those used to declare public health emergencies. <sup>19,20</sup>

- 4. Note whether the benchmarks for any criteria have been met. In the "Benchmark Met?" column, add a "1" if your benchmark was met and "0" if your benchmark was not met.
- 5. Indicate how important each factor is in influencing your decision whether to act to address the current rumor or situation. In the "Importance" column, add a "0" if the factor is not important, "1" if it is somewhat important, and "2" if it is very important.



**Tip:** Definitions of importance will vary from organization to organization. Make sure that everyone who is filling out this worksheet has a consistent understanding about what each score means. Designate someone as the point person for filling out this worksheet and gathering the team's input.

- 6. For each row in the worksheet, calculate a composite score by multiplying the "Benchmark Met?" score with the "Importance" score.
- 7. Add up all composite scores and note them at the bottom of the worksheet.



#### Why fill out this worksheet?

The worksheet in <u>Table 1</u> helps simplify the process of deciding whether to respond to a rumor by breaking it down into smaller steps, as shown in <u>Figure 3</u>. You should consider all the factors that influence your decision to take action. Then, benchmarks for action need to be met to proceed, and altogether, these factors need to be important enough to trigger action.

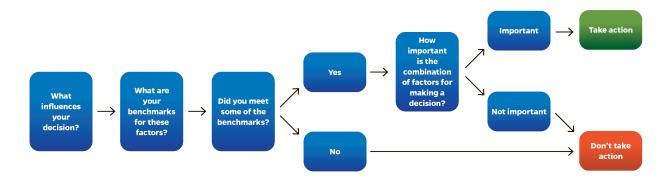


Figure 3. Decision-making process to decide whether to respond to a rumor

#### Practical Playbook for Addressing Health Rumors

**Table 1.** Tool to prioritize criteria that inform decision-making on acting to address rumors

| Decision criteria                              | Criteria definition   | Benchmark | Benchmark met? | Importance | Composite score |
|--|-----------------------|-----------|----------------|------------|-----------------|
|  | Seriousness           |           |                |            |                 |
| Spread of rumor                                |                       |           |                |            |                 |
| Impact on public trust                         |                       |           |                |            |                 |
| Population affected                            |                       |           |                |            |                 |
| Where the rumor is circulating                 |                       |           |                |            |                 |
| Impact on institutional reputation             |                       |           |                |            |                 |
| Type of actor spreading rumor                  |                       |           |                |            |                 |
| Believability of the rumor                     |                       |           |                |            |                 |
| Impact on health                               |                       |           |                |            |                 |
| Add additional criteria here                   |                       |           |                |            |                 |
|  | Capacity to act       |           |                |            |                 |
| Workload of responders                         |                       |           |                |            |                 |
| Value generated by acting                      |                       |           |                |            |                 |
| Funding available for acting                   |                       |           |                |            |                 |
| Availability of evidence needed to act         |                       |           |                |            |                 |
| Access to trusted communicators                |                       |           |                |            |                 |
| Amount of time available to act                |                       |           |                |            |                 |
| Availability of expertise in current workforce |                       |           |                |            |                 |
| Knowledge level of audience                    |                       |           |                |            |                 |
| Support from leadership                        |                       |           |                |            |                 |
| Whether clearance is needed to act             |                       |           |                |            |                 |
| Level of cultural competency                   |                       |           |                |            |                 |
| Add additional criteria here                   |                       |           |                |            |                 |
| ,  | Potential consequence | es        | 1              |            | 1               |
| Amplifying rumor                               |                       |           |                |            |                 |
| Alienating audiences                           |                       |           |                |            |                 |
| Making inequalities worse                      |                       |           |                |            |                 |
| Becoming a target of harassment                |                       |           |                |            |                 |
| Being unable to address uncertainty            |                       |           |                |            |                 |
| Political ramifications                        |                       |           |                |            |                 |
| Being wrong about the facts                    |                       |           |                |            |                 |
| Add additional criteria here                   |                       |           |                |            |                 |
| Other  |                       |           |                |            |                 |
| Add additional criteria here                   |                       |           |                |            |                 |
| Total composite score                          |                       |           |                |            |                 |

#### **Step 1.3 Decide whether you will address the rumor**

In many cases, addressing a rumor may not be the right choice. You and your team can use the composite scores from <u>Table 1</u> to decide whether to respond to a rumor by:

- Working together to come up with a minimum total composite score you need to meet to act. If you meet or exceed this score, you automatically act.
- Deciding whether any decision criteria will immediately trigger action (eg, if a rumor is resulting in high levels of immediate harm to health). If this benchmark is met, action is required.
- Alternatively, noting any decision criteria that would prohibit action, even if the minimum total composite score is met (eg, not enough staff or funding are available to carry out actions).

Also note that you may need to add a final point of decision-making, such as getting approval from leadership.



**Tip:** Usually, quick decisions are needed about whether to respond to rumors, even though you might need more evidence before acting. You should keep revisiting your decision-making criteria, especially when a public health issue is escalating, rumors are evolving, and more evidence is coming out, to note if anything changes and impacts your decision to act or not act.



#### How do you adapt decision-making during emergencies?

During public health emergencies, information management processes may need to be altered or accelerated in the following ways:

- See how social listening needs change. If you are expected to do more social listening and reporting on rumors in real time, you will need to revise how you listen to, inform people about, and respond to viral rumors.
- Consider how priorities change during an emergency. Changing priorities may
  affect the factors that influence your decision-making and alter the actions
  you choose to take. For example, if your organization's priority is to address
  misleading rumors as quickly as possible, you may need to identify rumors
  more rapidly.
- Recognize which processes need to move more quickly. You may need some
  processes to go faster, like data collection and research activities, to fill gaps in
  information or internal decision-making within your agency.
- **Plan to take some steps in advance.** You can carry out actions that require less contextual response in advance, like creating messages to prebunk common rumors and inoculate the public against them.
- **Get teams and partners ready for action**. You should reach out to communities and partners with whom you established relationships prior to the emergency and mobilize them to work with you to address rumors and build trust. You could also call on surge teams to help with staffing if needed and available.

#### If you have more time and resources:

- Conduct more systematic assessments like preparing a risk evaluation matrix to unpack a rumor, recognize why it went viral, and understand its potential impact.
  - ✓ UNICEF: Vaccine Misinformation Management Field Guide: Figure 3: Risk evaluation matrix
- Collect information gathered from informal and formal social listening systems to compile an insights report.
  - **♦ WHO/UNICEF: Infodemic Insights Report**
- Evaluate how your organization makes decisions and adapt this playbook's
  decision-making suggestions accordingly. Use existing frameworks to make
  decisions one step at a time in a deliberate but flexible way during a crisis.<sup>21,22</sup>
  - The Decision Lab: Observe, Orient, Decide, Act (OODA) Loop
- Notice how some mental blocks potentially hurt your ability to make decisions during a crisis (eg, wanting to delay a decision because you are afraid of failing or only searching for information that confirms what you already know).<sup>23</sup>



#### **Step 2: Take action to address rumors**

Follow the steps outlined in this section and summarized in <u>Figure 4</u> to identify how you can address rumors via strategically crafted messages. This section includes mini worksheets for each step to help you make decisions in a methodical manner; these smaller worksheets appear as one comprehensive worksheet in <u>Appendix C: Worksheet for Developing Messages to Counter Rumors</u>.

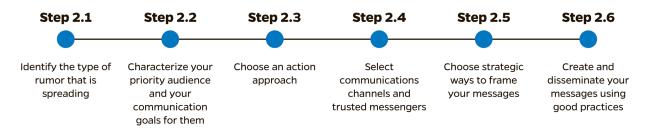


Figure 4. Overarching steps for acting to address rumors

#### Step 2.1: Identify the type of rumor that is spreading



During an escalating public health issue, rumors can weaken trust in public health and negatively affect communities' health. Although rumors may seem unique, they often repeat common narratives.<sup>7,24</sup> Some common rumors talk about:

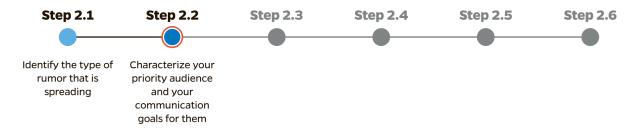
- Safety of approved, authorized, or unapproved interventions
- Efficacy of approved, authorized, or unapproved interventions
- Updates to or changes in guidance
- Dismissing or exaggerating the risk or severity of a health condition
- Dismissing or falsely attributing the cause of a health condition
- Narratives decreasing trust in a health agency or organization
- Narratives decreasing trust in individuals implementing interventions
- Narratives based on epistemological differences (ie, how people know/understand the world around them)
- Blaming or stigmatizing a population as the cause or spreader of a health condition
- Confusion around previous messaging
- Desire for certainty when the situation is uncertain

You should work to understand the type of rumor that is circulating, deconstruct it to show what the rumor aims to do, and identify what information, if shared with people, would resolve the rumor. You should also identify the level of risk the rumor poses to people's health and wellbeing, as a high-risk rumor may need a more proactive response like prebunking or inoculation. Fill out <u>Table 2A</u> to organize this information.

 Table 2A. Message development worksheet: identify the kind of rumor you see

| Q | Guiding question   | Your answer | Notes   |  |
|---|--|-------------|---|--|
| 1 | What is the rumor?   |             | Use approaches in the <u>Set up a</u> way to identify rumors section to understand the rumor and its level of risk.   |  |
| 2 | What type of rumor is it? State why it is a rumor and what information would discount or address it. |             |   |  |
| 3 | What level of risk does this rumor pose?   |             | If the level of risk is HIGH, you may need to prebunk or inoculate people against the rumor as soon as you detect it. |  |

### **Step 2.2: Characterize your priority audience and your communication goals** for them



In the <u>Get to know your audience</u> section, you learned how to understand your audiences' trust levels.

Appendix B: Audience Persona Characterization Tool

Upon detecting rumors, you should create a priority list of target audiences to reach with your message and focus efforts on audiences at the top of this list:



**Priority 1:** If a rumor disproportionately impacts certain populations or is more likely to be believed by specific populations, those populations should be at the top of the list. For example, rumors about pregnancy complications will disproportionately impact pregnant people, so messages that fill information voids to counter this rumor should first reach pregnant people.



**Priority 2:** Then, you can direct messages at general audiences, often in tandem with partner organizations or individuals who have already built rapport with target audiences (including news media, social and digital media influencers, community organizations, and healthcare organizations). General audiences include people who are part of the "movable middle," that is people who are not on the extremes of an issue, those who are unsure about what the truth is, and those open to changing their behavior.<sup>‡</sup>



**Priority 3:** Last, if appropriate and deemed potentially effective, you can include some messaging efforts for people who are spreading rumors.

To reach low-trust populations, promote better uptake of messages, and build overall trust in public health, you should prioritize partner organizations in your efforts. Many trusted messengers and community organizations have a long history of working with populations that may be disproportionately impacted by a rumor but don't always trust public health practitioners easily.



**Tip:** When resources are limited, it is okay to focus efforts on people who are disproportionately impacted by a rumor or likely to believe it. It can take considerable time and resources to reach general audiences.

<sup>‡</sup> Nick Moran and Lindsay Smith Rogers, MA, private correspondence, October 2023

For each priority audience, you should select relevant communication goals (as shown in Figure 5) and rank these goals in the same order as their audiences. Usually, you should aim to:

- 1) Increase awareness of accurate health information;
- 2) Increase the ability to detect false claims; and/or
- 3) Increase understanding of factual alternative explanations that provide context about why such claims are incorrect.

Please note that this is not an exhaustive list of communication goals when responding to rumors; for instance, providing people who are spreading the rumor with factual explanations may not be enough to deter them.



**Tip**: Work with trusted partners and secondary messengers when choosing an action approach and developing messages for priority audiences. They should be a part of your message dissemination strategy to improve the reach and uptake of your messages among priority audiences.

#### Messaging goals and audiences

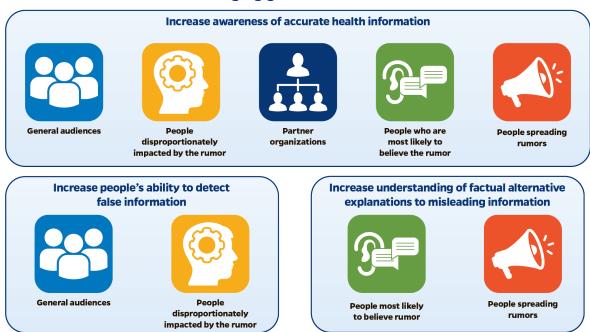


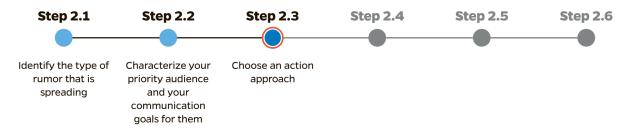
Figure 5. Identifying priority audiences for message development based on communication goals

#### Fill out <u>Table 2B</u> to organize this information.

 Table 2B. Message development worksheet: characterize your priority audience and your communication goals for them

| Ó  | Guiding question   | Your answer | Notes  |
|----|--|-------------|--|
| 4  | Who is spreading the rumor?  |             |  |
| 5  | Does the rumor disproportionately affect any populations? Explain  |             | If YES to either, prioritize these respective populations before others.   |
| 6  | Are some people more inclined to believing this rumor? Explain   |             | other groups as discussed below.   |
| 7  | Would a message from your organization or partner organization(s) stop people who spread this rumor from doing so? Explain |             | If YES to all, add general audiences and partner organizations, then people who are spreading the rumor to the priority list.                          |
| 8  | Does the community perceive your organization to be a trusted messenger? Explain   |             | If NO to any, prioritize general audiences.  |
| 9  | Do you work with any partner organizations that are trusted messengers for people spreading the rumor?                     |             | If YES, co-create tailored messages intended for priority audiences with them and disseminate through their channels, in addition to your own efforts. |
|    |  |             | If NO, focus on people who are likely<br>to believe and be most impacted<br>by the rumor, as well as general<br>audiences.                             |
| 10 | Who are the priority audiences for your message?   |             |  |
| 11 | What additional information do you need to consider about these audiences when creating messages?                          |             | Consider factors like audiences' priorities, values, questions, concerns, needs, beliefs, etc.   |
| 12 | What are your communication goals?<br>List them in an order that aligns with<br>your priority audiences.                   |             | Use guidance from Figure 5.  |

Step 2.3: Choose an action approach



You can build on priority communication goals and draw from research and recommended practices to decide how to respond to and manage rumors.<sup>25</sup>

4 i Framework for Advancing Communication and Trust (4 i FACT)

For every priority audience, first focus your efforts on actions that increase awareness of accurate health information, then move to other action approaches as appropriate, as shown in Table 3.



#### **Providing factual alternative explanations**

When deciding on an action approach, it is important to understand that simply stating that misinformation is incorrect, questionable, or coming from a source that is untrustworthy is unlikely to dispel rumors. Providing information that addresses a gap in understanding and explains more about the issue—or factual counterpoints—can be an effective communication goal. By introducing these factual alternative explanations, you are giving individuals a corrected, more thorough view of the issue, which may help to shift their initial understanding of the issue. It is crucial that the alternatives are robust but not too complex and maintain the same explanatory appropriateness as the original misleading information.

The Debunking Handbook 2020



**Tip:** Think about how your institution's needs and capabilities affect which action(s) you choose. **Actions at the top of** <u>Table 3</u> **require fewer resources, while actions at the bottom require more resources.** 

 Table 3. List of action approaches (with examples) based on priority communication goals

| Communication goal  | Action approach  | Action example  |
|---|--|---|
| Increase awareness of accurate health information AND increase people's ability to detect false information | Amplify accurate information: Share accessible, accurate, tailored, and culturally appropriate information from first-hand or other trusted sources, or point people to credible sources of information. <sup>26</sup> Exposing individuals to factual information may make it easier for them to resist false claims when they come across them.  | Dear Pandemic was a social media account that provided easily understandable, factual information about COVID-19 and other public health issues to Instagram users. The account transitioned to Those Nerdy Girls.  |
| Increase awareness of accurate health   | <b>Fill information voids:</b> Quickly provide easy-to-understand, credible, accessible, and correct information to answer common questions or fill knowledge gaps. <sup>10</sup>  | The Conversation: Between Us, About Us is a series of videos in which a varied group of healthcare workers answered common questions about COVID-19 and vaccines to dispel rumors. The videos targeted racially marginalized communities and people with high vaccine hesitancy. See also: A Q&A video with the CDC Director on Instagram to educate pregnant people about COVID-19, flu, and RSV vaccines. |
| information   | Leverage trusted messengers and engage communities: Use spokespersons who are trusted by your priority audiences to convey key messages and encourage community participation in health communication. <sup>6,27</sup> Leveraging trusted messengers can be a low-cost way to build trust.   | The International Vaccine Access Center at Johns Hopkins University partnered with the African-American faith community and Historically Black Colleges and Universities in Baltimore to provide information about flu and COVID vaccinations and set up vaccine clinics in churches and other trusted community venues.  |
| Provide factual<br>alternative<br>explanations  | Refute, fact-check, or debunk: Refute false claims by highlighting factual errors (fact-based debunking), providing factual counterpoints, identifying flawed reasoning or logical fallacies (logic-based debunking), and/or by calling into question the credibility of the source of false claims (source-based debunking). <sup>28-30</sup>   | When Nicki Minaj tweeted that the COVID-19 vaccine had caused an acquaintance in Trinidad to develop swollen testicles and impotence, the Health Minister of Trinidad and Tobago debunked the claim and stated there was "absolutely no reported such side effect or adverse event of testicular swelling in Trinidad" (fact-based debunking).  |
| Increase people's<br>ability to detect false<br>claims  | Prebunk and inoculate: Preemptively refute anticipated false claims or manipulation tactics before people are exposed to a rumor, which protects them from believing in the rumor when it comes up. <sup>31</sup> This often involves educating people about common tactics of deception or manipulation and encouraging more critical thinking. This step is best done before a rumor arises, as shown in the Set yourself up for success before rumors escalate section. | Go Viral! is a free online game that teaches individuals about common manipulation/ deception tactics that are used by purveyors of false claims. The game has been shown to increase individual's confidence in their ability to identify misleading and reduce their reported willingness to share such information. <sup>32</sup>  |
|   | Improve health and science literacy: Enhance public understanding of scientific and health principles by explaining key concepts and processes, such as common public health terms, how research is done, and how to spot common logical fallacies when looking up information online.   | The group of women researchers and clinicians who make up Those Nerdy Girls regularly disseminate easy-to-understand articles and social media posts about scientific processes and principles, including one about the evolving nature of science and scientific guidance. 15  |

Furthermore, you can adjust these core actions to address rumors more effectively and avoid negative consequences. Recommendations for doing so are listed in <u>Table 4</u>.

**Table 4.** Guidance for improving effectiveness of actions and avoiding negative consequences

|                       | DO   |         | DON'T  |
|-----------------------|--|---------|--|
|                       | Action:  | Ger     | neral  |
| \<br>\<br>\<br>\<br>\ | Be empathic. People may feel confusion or fear during uncertain times.  Be consistent. Have communicators and spokespeople coordinate messaging strategies. <sup>33</sup> Be credible. Rely on sources with relevant expertise. <sup>23,34</sup> Customize content for specific target audiences.  Plan ahead. Have a strategy in place to respond if bad actors seize messages and use them to further their own agendas.  Have a plan to swiftly address and fill information voids in case a message accidentally amplifies rumors. | × × × × | Use scare tactics to change people's beliefs. 35 Repeat false claims unnecessarily. Ignore behavioral and social evidence when designing messages, especially for vaccine hesitant groups who care about efficacy, safety, and disproportionate risks to certain populations. 4 Refuse to acknowledge when the public received incorrect guidance from official or reputable sources. Ignore potential consequences from being too slow/fast to correct rumors, rushing to fill information gaps even though scientific evidence is still evolving, and looking like you're out of the loop. |
|                       | Action: Amplifying a   | ccu     | ırate information  |
| √<br>√                | Use messages that strongly appeal to morals and emotions like disgust and compassion, but not panic. 36,37 Improve audiences' ability to judge the credibility of sources sharing information related to a rumor, such as by assessing the reputation of a source, whether the author is qualified to discuss the issue, how accurate the information is, etc. 38 Empower audiences to amplify accurate information in their circles. §  | ×       | Worry that reframing messages may negatively impact people outside your target audience. Evidence suggests this is unlikely. <sup>36</sup> Ignore possible problems, such as others twisting your messages or public officials or influencers discrediting you to further their own agendas.   |
|                       | Action: Filling in   | fori    | mation voids   |
| 1                     | Act quickly before other actors can fill the void with rumors or misleading claims.  Adapt content into different languages. Be sure to maintain the original tone, intent, and style.  Use simple language and graphics. 28,39  | ×       | Wait to act. It's okay to fill information gaps even as scientific evidence is still evolving.  Create generic content that is not tailored to diverse audience needs and beliefs. 40  Assume that translating materials into other languages is enough to reach diverse audiences. 26  Assume that telling people about their individual risk of disease will influence their actions. 41 Overemphasizing individual risk may actually increase a person's unrealistic optimism in not getting or transmitting a disease, particularly as a coping mechanism. 42                            |
|                       | Action: Leveraging trusted messe   | nge     | ers and engaging communities   |
| √<br>√<br>√           | Collaborate with communities to develop culturally appropriate messaging.  Empower trusted messengers from the community to disseminate accurate information and reject false claims. <sup>28</sup> Use an in-group spokesperson to better connect with your intended audience. <sup>36,43</sup> Reframe messages to align with the audience's most important values. <sup>36</sup>  | ×       | Overburden resource-limited community organizations with more unpaid work. Reinforce harmful social norms.   |

<sup>§</sup> Nick Moran and Lindsay Smith Rogers, MA, private correspondence, October 2023

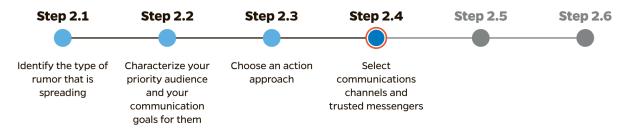
| DO   | DON'T  |
|--|--|
| Action: Refuting, fac  | t-checking, debunking, prebunking, and inoculating   |
| <ul> <li>✓ Provide enough detail.<sup>44</sup></li> <li>✓ Offer factual counterpoints when correct information.<sup>45</sup></li> <li>✓ Warn readers that you're going to repeatin order to debunk the rumor.<sup>45</sup></li> <li>✓ Repeat the guidance you want people to Repetition can increase retention.<sup>46</sup></li> <li>✓ Be empathetic. Conspiracy theories can coping mechanism during periods of peror uncertainty.<sup>29</sup></li> <li>✓ Affirm audience identity before providin that could threaten their views.<sup>28</sup></li> <li>✓ Consider using different types of debunk based, logic-based, and source-based detechniques have all been successful for gaudiences.<sup>29</sup></li> <li>✓ Encourage the original sources to provide corrections.<sup>47</sup></li> <li>✓ Make debunking messages "sticky"—ke simple, use familiar phrases, and repeat messages.<sup>48,49</sup></li> <li>✓ Be prepared for rumors to persist—even debunking.<sup>44</sup></li> <li>✓ Provide an "accuracy nudge" to prompt consider the reliability of a rumor.<sup>50</sup></li> </ul> | beliefs. <sup>51</sup> X Overcomplicate your response. People may reject complex information in favor of simpler (but potentially inaccurate) information. <sup>45</sup> X Repeat false claims more than once in a correction. Repetition can increase belief in incorrect information. <sup>28,45</sup> X Try to debunk conspiracy theories if the audience consists of true believers, as this could do more harm than good. <sup>29,52</sup> X Wait to debunk a rumor; as time passes from when someone hears the original rumor, it gets more difficult to change their beliefs. <sup>51</sup> X Discount the role experts can play in correcting rumors. In some cases, corrections can be more effective when communicated by an expert compared to a non-expert. <sup>53</sup> I Ignore emotions. Rumors that arouses negative feelings in people may be easier to correct than those that does not arouse any significant emotion. <sup>54</sup> |
| Action: Im   | proving health, science, and media literacy  |
| <ul> <li>√ Prepare audiences for the possibility that messages may change. 55</li> <li>√ Strike a balance between acknowledging and providing the public with concrete face.</li> </ul>  | without explaining why the old information is no longer accurate. <sup>55</sup>  |

#### Fill out <u>Table 2C</u> to organize this information using the above guidance.

 Table 2C. Message development worksheet: choose an action approach

| Ó  | Guiding question   | Your answer | Notes  |
|----|--|-------------|--|
| 13 | Which action approach(es) will you use? List them by audience. |             | If you responded HIGH RISK to Q3, prioritize prebunking and inoculation. |
|    |  |             | Use guidance from <u>Table 3</u> .                                       |

**Step 2.4: Select communications channels and trusted messengers** 



The best communications channels for a message that addresses rumors are the platforms on which they are spreading. Prioritize these channels by how accessible messages will be to targeted audiences and how they will maximize message reach. For example, if a rumor is spreading on social media and mostly affecting underinsured groups, don't prioritize disseminating messages through brochures and posters in doctors' offices where the intended audience might not see them. Add other channels—like social media, inperson engagements, and traditional and digital media—to your priority list based on the channels' popularity, user-friendliness, and trustworthiness, as shown in <u>Table 5</u>.

**Table 5.** Comparison of common channels used to disseminate messages

| In-person activities  | Social media   | Traditional & digital media  |  |  |  |
|---|--|--|--|--|--|
|   | Benefits   |  |  |  |  |
| <ul> <li>✓ Connect with the public in a more targeted and intimate way.</li> <li>✓ Work through trusted partners for better impact.</li> <li>✓ Help build long-term trust.</li> <li>✓ Distribute fact sheets and flyers at community events and other meetings, which can prompt useful discussions.³</li> <li>✓ Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies</li> </ul> | <ul> <li>✓ Less expensive.</li> <li>✓ Personal, rapid way to connect with the public. 56</li> <li>✓ Use content calendars and social media management tools. 57</li> <li>✓ Easy to post text, graphics, videos, and external links.</li> <li>✓ Allows for dynamic and interactive features, discussions, and livestreams. 57,58</li> <li>✓ Easy to access and assess analytics. 59</li> <li>✓ CARE USA: Can Non-Profits Use Social Media to Promote Public Health?</li> <li>✓ NACCHO: Social Media Toolkit</li> <li>✓ Community Tool Box: Implementing Social Marketing</li> </ul> | <ul> <li>✓ Reaches broad audiences.</li> <li>✓ Can use efficient talking points when convening media partners.<sup>57</sup></li> <li>✓ Ability to explore rumors in more depth.</li> <li>✓ Webpages can be engaging.<sup>57</sup></li> <li>✓ Lots of options, such as print, radio, podcasts, and local TV.<sup>60</sup></li> <li>✓ Article: Podcasting as a Tool for Crisis Communications</li> <li>✓ CDC: Health Communication Playbook: Media Communications</li> </ul> |  |  |  |
|   |  |  |  |  |  |
|   | Drawbacks  |  |  |  |  |
| <ul> <li>Time-consuming and possibly costly to organize.</li> <li>Require some relationships to exist before a rumor emerges.</li> <li>Slower process for addressing misleading claims, which often changes quickly.</li> </ul>   | <ul> <li>Accidentally inaccurate content spreads and amplifies rapidly.</li> <li>Risk of trolling and harassment if sharing messages about controversial issues.</li> <li>Message visibility depends on the platform's algorithms.</li> <li>Audience may lack digital access.</li> <li>Platforms have different audiences.</li> </ul>  | Perceived biases of some news media outlets can be a barrier for uptake of messages.      Requires more permissions and partnership with media outlets.  |  |  |  |

Share and amplify messages across platforms that your target audiences view as trustworthy, work with trusted messengers to co-create and disseminate messages, and engage partners and communities to help with increasing the reach and uptake of messages among priority audiences.

Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies

#### Fill out <u>Table 2D</u> to organize this information.

Table 2D. Message development worksheet: select communications channels and trusted messengers

| Ó  | Guiding question  | Your answer | Notes  |
|----|---|-------------|--|
| 14 | On which platform(s) is this rumor spreading?   |             |  |
| 15 | Which communications channels will you prioritize for disseminating your message?   |             | Prioritize based on Q14 but add others, like partners' preferred platforms. The format, character limits, structure, and framing of the message you develop in Q23 will depend on the communications channel you choose.  Use guidance from Table 5. |
| 16 | Which organizations, businesses, online or community influencers do priority audiences trust? List them in order of preference by audience. |             | Co-create messages with these parties and include them as disseminators.   |
| 17 | List the trusted sources and partners that will serve as messengers.  |             |  |
| 18 | List other considerations that inform your message dissemination strategy.  |             |  |

**Step 2.5: Choose strategic ways to frame your messages** 



Audiences interpret messages in diverse ways. Knowing the lenses they use to understand messages can help you choose and frame messaging appropriately. Select from the following list of common message framing techniques, which have a stronger evidence base, and consider other approaches shown in <u>Appendix D: Message Framing Strategies and Templates</u>:

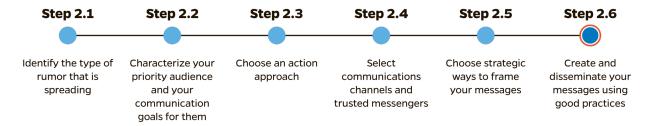
- Match messages to the motivations of audiences, especially framing information that audiences might not accept easily, in a way that aligns with their moral values (moral reframing) and focuses on desirable outcomes or benefits that they get (gain framing).<sup>61-65</sup>
- Appeal to self-serving benefits (self-oriented framing).
- Appeal to improving a positive outcome during crisis (promotion framing) but appeal to preventing a negative outcome during non-crisis times (prevention framing).<sup>66</sup>
- Appeal to health-related consequences of changing behavior (health consequences framing).<sup>67,68</sup>
- Acknowledge uncertainty, as audiences trust messengers who are honest about what is known and unknown during an evolving situation.

#### Fill out <u>Table 2E</u> to organize this information.

 Table 2E. Message development worksheet: choose strategic ways to frame your messages

| Ó  | Guiding question  | Your answer | Notes  |
|----|---|-------------|--|
| 19 | Are your priority audiences' motivations to change behaviors and beliefs driven by specific benefits or moral values? |             | If YES, use gain framing or moral reframing techniques for your message.  If NO, use other message framing strategies. |
| 20 | List any message framing strategies you will incorporate into your message and why.                                   |             | Consider the motivations of your priority audiences. Use resources from Appendix D: Message Framing                    |
| 21 | List any message framing templates you might use to create your message.  |             | Strategies and Templates.  |
| 22 | How will you tailor your message to match your priority audiences?  |             | Remember to tailor based on your answers to Q15-18.  |

#### Step 2.6: Create and disseminate your messages using good practices



#### Incorporate good practices to construct effective messages, as follows:

| Structure        | Develop a skeleton format for your message based on your communications channel. A Facebook post, Instagram post, newsletter, or town hall script each require different inputs.  Create a communication format to use during public presentations of information. For example, start messages with an introductory statement that is empathetic and culturally appropriate, share 3-5 key messages, and finish with a conclusion that summarizes your point. (Sp. 46),69  CDC: Health Communication Playbook: Identify Key Messages and Talking Points Worksheet.  Provide action items and key takeaways before the message gets too detailed or complicated.  FrameWorks: Order Matters  Use key messages and talking points that consider the 6 Ws:57 What is the action? When should the action take place? Where and who should act? Why should the public act? Whose advice is being shared? |  |
|------------------|---|--|
| Language         | Use everyday words, short sentences, second person point of view, and active voice.  Avoid jargon. Ensure content is simple, concise, empathetic, memorable, tailored, and impactful. PHCC: Plain Language for Public Health  Say the most important information first.  Present information in bulleted lists.  Provide descriptive links.  Provide information in accessible and alternative formats (eg, Braille, text-to-voice, or American Sign Language). CDC: Tool for Developing Products for Adults with Intellectual Developmental Disabilities and Extreme Low Literacy  |  |
| Tone and Visuals | Address claims directly, lead with empathy, and provide detail and context. Add value statements (eg, "we have a duty to protect each other"). We a casual tone to be more approachable or use a professional tone for more authority. Be intentional with word choice (eg, talking to audiences as if they were a friend).  CDC: Simply Put: A guide for creating easy-to-understand materials  Use appropriate and sensitive humor to avoid offending people. Select design elements, layouts, color schemes, and images that resonate well with audiences.  CDC: Health Communication Playbook: Use Design and Layout Effectively  Use hashtags and social media trends to make messages more relatable and far-reaching.  |  |

<sup>¶</sup> Nick Moran and Lindsay Smith Rogers, MA, private correspondence, October 2023



**Tip:** If you don't have a lot of time to create a message, use large language models (LLMs) to create a starting point for messages and then modify them to better fit with good practices suggested in this playbook, as shown in <u>Appendix E: Developing</u> Messages Using LLMs.

#### Fill out <u>Table 2F</u> to organize this information.

Table 2F. Message development worksheet: create and disseminate your messages using good practices

| Ó  | Guiding question   | Your answer | Notes  |
|----|--|-------------|--|
| 23 | Share the message(s) you have created. State the target audience(s) and dissemination channel(s) for each. |             | Adapt based on your communications channels from Q15 and message framing techniques from Q19-22.                                   |
| 24 | Did you incorporate good practices related to language, tone, visuals, structure, etc.?                    |             | If YES, proceed to dissemination.  If NO, incorporate good practices for quality assurance or accept consequences of not doing so. |
| 25 | What are some underlying assumptions of your message?  |             |  |
| 26 | What are some potential pitfalls of your message and how will you address them (if at all)?                |             |  |



#### Use new technologies to address rumors.

Evolving technologies can both assist and inhibit the process of addressing rumors. The full impact of new technologies on the spread of rumors is still unknown, but there are tools that can be used to enhance engagement and reach. Using large language models (LLMs) and artificial intelligence (AI) technologies, like ChatGPT, may be useful to create tools like audience personas³ (see <u>Appendix B: Audience Persona Characterization Tool</u>) that can assist in modeling demographic information of the target audience and help inform strategies for engagement. These personas can serve as useful guides when crafting communication plans and specific messages or graphic materials. LLMs can help with social listening<sup>75</sup> and generating sample messages,<sup>76</sup> which you can then feed through systematic checklists or align with practices recommended in this playbook for quality assurance (see <u>Appendix E: Developing Messages Using LLMs</u>). If you are short on time, you can adapt existing health communication resources and effective assets from other reputable organizations.

#### Step 2.7: Even if you can't act, address rumors in other ways

Often, resources are stretched too thin to prioritize addressing rumors, and it is difficult or not productive to respond to every rumor. However, if you want to support actions to address rumors in other ways, you can:

- □ Leverage strategic partnerships. Continue to coordinate, build relationships, and work creatively with internal and external partners, like the Association of State and Territorial Health Officials (ASTHO), state and county agencies, and community organizations, that can address rumors as part of their work.
- Amplify (trusted) influential voices. Help local or national influencers to amplify anti-rumor messages that other trusted organizations or individuals share. Let partners know how they can reduce rumors in times of crisis, such as by creating resource repositories.

ASTHO: COVID-19 Public Health Communications Resource Hub

- 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. Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies includes some approaches for being present in communities.
- □ Track potential consequences of not taking action. Without intervention, viral rumors may continue to spread and might result in tangible, negative impacts on community health. Watch for these negative impacts by using social listening tools and asking community partners to report them. Sometimes, negative impacts warrant reevaluation of the need to respond. You can track emerging scientific evidence, results from public polls, comments and interactions on social media platforms, and news reports that draw on public opinion.

#### If you have more time and resources:

- Address rumors using institutional-level actions during times of stability, like shortening the internal review process for messages or having a quickacting contract mechanism in place so you can hire external messengers and partners to create customized messages more rapidly during an escalating public health issue.<sup>25</sup>
- Include 2-way dialogue methods that encourage people and practitioners to engage with each other, work together to build trust in public health, and communicate openly about how people react to anti-rumor messages.<sup>3</sup> This might involve hosting town halls, actively interacting with people who comment on social media posts, attending community engagement events, and holding in-person listening sessions.
- Use social media advertising tools, produce paid marketing campaigns, and build a cohesive social media communication campaign to share messages consistently with the public.
  - CARE USA: Can Non-Profits Use Social Media to Promote Public Health?

- Build trust by leaning on trusted messengers to share anti-rumor messages and engage communities. Building trust requires a focus on repairing relationships both before and during a public health event.
  - Appendix A: Checklist to Build Trust,
    Improve Public Health Communication, and
    Anticipate Rumors During Public Health
    Emergencies
- Shift social norms that allow some rumors to spread by empowering the audience to change how they think and behave.
- Improve health, media, and science literacy by teaching audiences to think critically about information and the scientific process.

## **Step 3: Evaluate key messages**

Understanding the impact of your message can be difficult, especially when communication needs are greatest. You can gather feedback about your message in different ways:

| . • |  |
|-----|--|
|     | Test whether your messages are readable, accessible, relevant, or effective. <sup>79</sup> You can employ common user testing methods, which can help make sure that users can read and understand your message.   |
|     | PHCC: Plain Language for Public Health: Step 3 Review and Testing  |
|     | Track how well you distributed your message and who it reached. <sup>80</sup> For instance, when you share messages using social media, you can use the platform's analytics and advertising tools to understand how well you connected with your intended audience, how many people your message reached, how many people interacted with your content, and more. <sup>14,81-83</sup> Gathering this information can help you make sure that your intended audience is receiving your messages. |
|     | Talk with your community. You can ask community members, partners, and people you connect with in-person or virtually about their thoughts on your messaging and its impact on the target audience. They may be able to share what they think about your content or what community members have said, and you can then adjust your messages to address any concerns.   |

#### If you have more time and resources:

- Come up with key performance indicators (KPIs) or practical ways to measure your progress.
  - ← CDC: Description of the Science Impact Framework
  - National Cancer Institute: Constructs and Measures for Health Behavior
- Carry out message testing more methodically to see whether your messages are reaching the intended audience, being understood in the way you want, and having any short-term impacts.
- Evaluate the extent to which messages have led to short-term or longterm changes, especially in the behaviors, beliefs, or practices of the target audience.<sup>13</sup> You can use specific techniques to determine impact, like comparing baseline and endline outcomes, comparing 2 versions of a message to each other, or asking targeted user-experience questions.<sup>84</sup>

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# Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies

This <u>checklist</u> provides guidance for how to improve trust and communication in the context of an escalating public health issues.<sup>1</sup>

| Bui   | ld Crit | ical Communication Capacities   |
|---|---------|---|
| ☐ Activity 1: Build and maintain a PHEPR communication workforce that is prepared and reflective of the community it serves |         |   |
|   |         | Identify and characterize existing PHEPR communication workforce assets   |
|   |         | Establish and pursue avenues to remedy workforce gaps   |
|   |         | Recognize and address threats to building and maintaining a PHEPR communication workforce   |
|   |         | ty 2: Ensure that existing budgetary, operations, and financing approaches for R communication activities reflect prospective needs during an emergency |
|   |         | Understand current PHEPR communication funding  |
|   |         | Curate alternative resources that may be deployed before or during a public health emergency  |
|   |         | Prepare administrative strategies in anticipation of just-in-time emergency disbursements   |
|   |         | Streamline bureaucratic and administrative processes that hinder responding in "feast-or-famine" financing conditions                                   |
|   | Activi  | ty 3: Know your audience and their history with public health   |
|   |         | Discern audience characteristics  |
|   |         | Understand intended audience's history with public health and related institutions  |
| Dev   | velop N | Meaningful & Lasting Relationships with Your Community  |
|   | Activi  | ty 1: Establish public health personnel as trusted members of the community   |
|   |         | Assess readiness for community relationships  |
|   |         | Identify key principles and norms for engaging with communities   |
|   |         | Be immersed in community spaces and present at local events initiatives, and meetings   |
|   |         | Build in mechanisms for sharing decision-making processes with  |

|     | Activi  | ty 2: Make strategic and intentional investments in building community   |
|-----|---------|--|
|     |         | Conduct assessments to understand community networks and needs to inform a plan of action  |
|     |         | Establish a track record of supporting the community in a range of ways, even if small   |
|     |         | Develop avenues for community members to integrate into the local public health community  |
|     |         | Prioritize sustainability when building community relationships and evaluate progress  |
| Cre | ate &   | Maintain Strong Partnerships with Secondary Messengers   |
|     |         | ty 1: Create a strategy for maximizing the use of secondary messengers in the communication efforts                                      |
|     |         | Conduct an assessment to understand needs of key partners and likely secondary messengers  |
|     |         | Identify and engage with potential strategic partners for secondary messaging  |
|     |         | Identify public health capacities and resources that can be leveraged as benefits to formal secondary messengers                         |
|     |         | ty 2: Develop formal processes to engage and incorporate secondary engers into message development, distribution, and evaluation efforts |
|     |         | Develop shared expectations with potential partners  |
|     |         | Collaborate with partners on message development and distribution efforts  |
|     | Activi  | ty 3: Cultivate opportunities for informal sharing of messages   |
|     |         | Leverage informal secondary messengers in virtual spaces   |
|     |         | Leverage informal secondary messengers in physical spaces  |
| Ant | cicipat | e Misleading Rumors & Potential Loss of Trust  |
|     | Activi  | ty 1: Enable appropriate understanding of what public health is and does   |
|     |         | Establish what public health is and its benefits to society  |
|     |         | Clarify how government services—including the public health department—are organized   |
|     |         | Explain the goals and thought processes behind public health operations  |
|     |         | Plan robust public feedback mechanisms prior to an emergency   |

| start of a health emergency |                 | of a health emergency  |
|-----------------------------|-----------------|--|
|                             |                 | Help members of the public understand issues of uncertainty  |
|                             |                 | Establish processes and plans to communicate changes in guidance as understanding evolves                                      |
|                             |                 | Set an appropriate communication cadence   |
|                             | Activi<br>conte | ty 3: Track, analyze, understand, and plan for anticipated rumors in local<br>xts  |
|                             |                 | Establish tracking and analysis systems for social listening   |
|                             |                 | Integrate an understanding of local audience values and needs with expected rumors   |
|                             |                 | Develop prebunking and inoculation messages  |
|                             | Activi          | ty 4: Promote use of and access to trusted sources   |
|                             |                 | Facilitate access to trustworthy health information and teach critical thinking skills to enhance information self-sufficiency |
|                             |                 | Enhance information accessibility and understandability  |
|                             |                 |  |
| For                         | mulat           | e Key Message Components & Maximize Message Engagement   |
|                             | Activi          | ty 1: Draft key messages   |
|                             |                 | Embrace a basic content format for communicating accurate information in an emergency  |
|                             |                 | Employ specialized approaches to confront rumors   |
|                             |                 | Consider and apply lessons from existing messaging models  |
|                             | Activi          | ty 2: Tailor messages based on understanding of the intended audience  |
|                             |                 | Identify intended audiences for messaging  |
|                             |                 | Consider specific needs of the intended audience that may influence their perspectives on public health messages               |
|                             |                 | Engage in dialogue to build trust, increase message effectiveness, and address rumors  |
|                             |                 | ty 3: Ensure messages get to intended audiences via preferred channels and od voices   |
|                             |                 | Tailor channel utilization to increase engagement with intended audiences  |
|                             |                 | Identify and integrate trusted messengers into messaging efforts to increase uptake and effectiveness                          |

Practical Playbook for Addressing Health Rumors

| П |   | audiences   |  |  |
|---|---|---|--|--|
|   |   | Increase engagement by using eye-catching visuals and other formatting                        |  |  |
|   |   | Revise messaging content and tone to increase messaging reach                                 |  |  |
|   |   | Sync message tailoring for maximum effectiveness  |  |  |
|   | ☐ Activity 5: Regularly evaluate the engagement and impact of PHEPR communication efforts |   |  |  |
|   |   | Select and execute an evaluation process complementary to organizational goals and capacities |  |  |
|   |   | Link evaluation results to message development and tailoring efforts                          |  |  |
|   |   |   |  |  |

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1. Potter C, Nagar A, Fink E, et al. Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies. Baltimore, MD: Johns Hopkins Center for Health Security; 2024.

# **Appendix B: Audience Persona Characterization Tool**

This tool helps to identify target audiences and characterize their personas to assist in the development of messages before and during an escalating public health issue. However, care should be taken to avoid stereotyping people while using the tool. Use the template below to organize what you know about your audience and create a fictional audience persona. You can download and edit the tool at this link.

| Audience Persona Template - Name   |                  |                              |  |
|--|------------------|------------------------------|--|
| Image  | Bio              |                              |  |
|  | Traits & Beliefs | Reasons for Trust / Distrust |  |
| AGE: GENDER: ETHNICITY/RACE: EDUCATION: OCCUPATION: FAMILY: LOCATION: ANNUAL INCOME: | Motivations      | Preferred Channels           |  |

You can fill out the table below to organize information gathered using audience personas, especially in collaboration with community stakeholders. The included text serves only as an example of the ways the table could be filled out.

| Category                            | Your answers   |   |   |
|-------------------------------------|--|---|---|
| Purpose                             | Prebunk misleading claims related to individual risk & help audience anticipate public health messages |   |   |
| Message Goals                       | Increase people's ability to detect false  | e claims  |   |
| Persona & Trust<br>Characterization | High Trust Person Add characteristics (eg, racial identity, location)                                  | Low Trust & Adversarial Mindset Add characteristics (eg, racial identity, location)               | <u>Low Trust &amp; Historically</u> <u>Underreached</u> Add characteristics (eg, racial identity, location) |
| Traits & Beliefs                    | Trusts authority, expertise, and science   | Believes government actions<br>overreach and interfere in<br>individuals' autonomy                | Feels their community has been left behind by the government  |
| Motivations                         | Promoting a healthy community  | Sense of control  | Care for and protect self,<br>community, and loved ones   |
| Reasons for Trust/<br>Distrust      | Positive experiences with medical and government establishments  | Lack of transparency in government<br>and public health officials' actions<br>and decision-making | Poor treatment outcomes of people in the community  |
| Preferred Channels                  | Social media for public health updates   | Face-to-face conversations at<br>local community events & religious<br>gatherings                 | Local newspaper, face-to-face<br>conversations at local community<br>events & religious gatherings          |
| Rhetoric                            | Highlighting the scientific process  | Individual choice and personal responsibility   | Shared responsibility   |
| Justification<br>and Citation       | Refer to official entities such as<br>CDC, WHO, state public health<br>departments                     | Refer to official entities in addition<br>to trusted local messengers from<br>shared community    | Offer in-person or on-the-phone<br>Q&A sessions from trusted local<br>messengers                            |

#### References

1. Potter C, Nagar A, Fink E, et al. Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies. Baltimore, MD: Johns Hopkins Center for Health Security; 2024.

# **Appendix C: Worksheet for Developing Messages to Counter Rumors**

Use the worksheet below to walk through steps outlined in the playbook section <a href="Step">Step</a>
<a href="Step">2: Take action to address rumors</a>. You can use the worksheet to respond to a range of rumors that come up during emerging public health issues. You can download and edit this worksheet for your own use at this link.

| Ó | Guiding question   | Your answer | Notes  |
|---|--|-------------|--|
| 1 | What is the rumor?   |             | Use approaches in the <u>Set up a</u> way to identify rumors section to understand the rumor you have detected and its level of                        |
| 2 | What type of rumor is it?<br>State why it is a rumor and<br>what information would<br>discount or address it.              |             | risk.  |
| 3 | What level of risk does this rumor pose?   |             | If the level of risk is HIGH,<br>you may need to prebunk or<br>inoculate people against the<br>rumor as soon as you detect it.                         |
| 4 | Who is spreading the rumor?  |             |  |
| 5 | Does the rumor disproportionately affect any populations? Explain  |             | If YES to either, prioritize these respective populations before others.   |
| 6 | Are some people more inclined to believing this rumor? Explain   |             | If NO or unclear to both, prioritize other groups as discussed below.  |
| 7 | Would a message from your organization or partner organization(s) stop people who spread this rumor from doing so? Explain |             | If YES to all, add general audiences and partner organizations, then people who are spreading the rumor to the priority list.                          |
| 8 | Does the community perceive your organization to be a trusted messenger? Explain   |             | If NO to any, prioritize general audiences.  |
| 9 | Do you work with any partner organizations that are trusted messengers for people spreading the rumor?                     |             | If YES, co-create tailored messages intended for priority audiences with them and disseminate through their channels, in addition to your own efforts. |
|   |  |             | If NO, focus on people who are likely to believe and be most impacted by the rumor, as well as general audiences.                                      |

| Ó  | Guiding question   | Your answer | Notes  |
|----|--|-------------|--|
| 10 | Who are the priority audiences for your message?   |             |  |
| 11 | What additional information<br>do you need to consider<br>about these audiences when<br>creating messages?                                   |             | Consider factors like<br>audiences' priorities, values,<br>questions, concerns, needs,<br>beliefs, etc.  |
| 12 | What are your communication goals? List them in an order that aligns with your priority audiences.   |             | Use guidance from Figure 5.  |
| 13 | Which action approach(es) will you use? List them by audience.   |             | If you responded HIGH RISK to Q3, prioritize prebunking and inoculation.  Use guidance from Table 3.   |
| 14 | On which platform(s) is this rumor spreading?  |             | ese galidarice from <u>rable c</u> .   |
| 15 | Which communications channels will you prioritize for disseminating your message?  |             | Prioritize based on Q14 but add others, like partners' preferred platforms. The format, character limits, structure, and framing of the message you develop in Q23 will depend on the communications channel you choose.  Use guidance from Table 5. |
| 16 | Which organizations, businesses, online or community influencers do priority audiences trust? List them in order of preference by audiences. |             | Co-create messages with these parties and include them as disseminators.   |
| 17 | List the trusted sources and partners that will serve as messengers.   |             |  |
| 18 | List other considerations that inform your message dissemination strategy.   |             |  |

| Ó  | Guiding question  | Your answer | Notes  |
|----|---|-------------|--|
| 19 | Are your priority audiences' motivations to change behaviors and beliefs driven by specific benefits or moral values? |             | If YES, use gain framing or moral reframing techniques for your message.  If NO, use other message framing strategies.             |
| 20 | List any message framing<br>strategies you will<br>incorporate into your<br>message and why.                          |             | Consider the motivations of your priority audiences. Use resources from Appendix D:  Message Framing Strategies                    |
| 21 | List any message framing<br>templates you might use to<br>create your message.  |             | and Templates.   |
| 22 | How will you tailor your message to match your priority audiences?  |             | Remember to tailor based on your answers to Q15-18.  |
| 23 | Share the message(s) you have created. State the target audience(s) and dissemination channel(s) for each.            |             | Adapt based on your communications channels from Q15 and message framing techniques from Q19-22.                                   |
| 24 | Did you incorporate good practices related to language, tone, visuals, structure, etc.?                               |             | If YES, proceed to dissemination.  If NO, incorporate good practices for quality assurance or accept consequences of not doing so. |
| 25 | What are some underlying assumptions of your message?   |             |  |
| 26 | What are some potential pitfalls of your message and how will you address them (if at all)?                           |             |  |

# **Appendix D: Message Framing Strategies and Templates**

The table below provides descriptions of several strategies for framing messages. These techniques can be useful in developing messages for various audiences.<sup>1</sup>

**Table D1.** Message framing techniques to create messages

| Technique                         | Description   | Example   |
|-----------------------------------|---|---|
| Moral reframing*                  | When the message is intended<br>to present information that an<br>individual would not normally<br>support in a way that is consistent<br>with their moral values. <sup>2</sup> | Wearing a mask is a simple way to keep disease from spreading, which can reduce government interference and increase freedom of movement.   |
| Argument framing                  | Mention the consequences of an action using conditional "if-then" arguments. This is a familiar way of trying to convince people to follow a course of action.                  | If you wash your hands after playing with your pet turtle, then you can keep yourself safe from the salmonella outbreak that is going around.   |
| Antecedent variation              | Flip the action to either emphasize what people gain or lose from doing or not doing an action. The focus is on the action.   | People who don't verify whether a rumor is true will be more likely to fall victim to fake news vs. People who verify whether a rumor is true will be more likely to share accurate news. |
| Consequent variation              | Flip the consequence or outcome to emphasize whether people gain or lose from an action. The focus is on the consequences.  | People who verify if a rumor is true will be less likely to share fake news.  |
| Short-term<br>consequences        | Focus on outcomes and consequences that manifest immediately.   | Vaccines can reduce a person's chances of getting sick.   |
| Long-term<br>consequences         | Focus on outcomes and consequences that manifest after some time has passed.  | Vaccines can improve herd immunity for our whole community.   |
| Self-oriented consequences*       | Focus on consequences for the message recipient.  | Vaccines can reduce your chances of getting sick.   |
| Other-oriented consequences       | Focus on consequences that happen to other people.  | Vaccines can reduce infection risk for immunocompromised people.  |
| Prevention-oriented consequences* | Focus on preventing a negative outcome (prioritizes security).  | Keep checking CDC's website to avoid falling for incorrect news about heatwaves from unofficial sources.  |
| Promotion-oriented consequences*  | Focus on improving a positive outcome (prioritizes growth).   | Keep checking CDC's website to stay up to date with the latest developments.  |
| Health consequences*              | Appeal to consequences related to people's health.  | Avoid going home to flood-affected areas to reduce your risk of getting infected by contaminated floodwater.  |

| Technique                  | Description   | Example   |
|----------------------------|---|---|
| Non-health<br>consequences | Appeal to consequences related to non-health outcomes that people care about.   | Avoid going home to flood-affected areas because you might lose control of your vehicle while driving and cause further damage.                               |
| Attribute framing          | Advertise strategic features or attributes of an option to sway a person's decision.  | Around 23% of people at risk for mpox got vaccinated vs. Around 77% of people at risk are not protected against mpox.   |
| Outcome likelihood framing | Describe a behavior as leading to a certain likelihood of the outcome happening.  | Like other routine vaccines, side effects of<br>the updated COVID-19 vaccine are usually<br>mild and go away after a few days.                                |
| Risky choice framing       | Present the subject with 2 options that force a choice, usually between losing or gaining an outcome. <sup>2</sup>                      | Potential side effects of vaccinating against COVID-19 are aches, chills, and fever. Potential side effects of getting COVID-19 are hospitalization or death. |
| Metaphor framing           | Make a complex topic easier for audiences to understand by evoking characteristics of another simpler, symbolic concept. <sup>3,4</sup> | Use a row of matches with a gap separating lit matches from unlit matches as a visual aid to depict the value of physical distancing.                         |

<sup>\*</sup> These framing techniques have a stronger evidence base encouraging their use, compared to others.

The following section includes techniques and templates to use when creating messages to address rumors. You can download and edit these templates <u>at this link</u>.

#### 1. Using crisis and emergency risk communication (CERC) guidance

You can frame messages using the Centers for Disease Control and Prevention (CDC) CERC guidance.<sup>5</sup> The below table shows how this guidance can be applied practically.

| CERC considerations                            | Application  |
|--|--|
| Present a concise message                      | Avoid jargon, keep it simple, only include relevant information            |
| Repeat the main message                        | Frequently heard messages can help with retention when uncertainty is high |
| Give action steps in positives (when feasible) | Tell people what to do, more than what not to do                           |
| Create action steps in sets of 3 or 4          | Short lists are easier to remember   |
| Use personal pronouns                          | Humanize the message with I/we statements                                  |
| Respect people's fears and perceptions         | Recognize emotions, avoid judgement and condescension                      |
| Give people options                            | Avoid paternalistic ways to inform decision-making                         |
| Avoid humor                                    | Remember to be sensitive to people's emotions                              |

The following worksheet can be used to develop messages using CERC framing.

| Guiding questions                                    | Your responses |
|--|----------------|
| What is your core message?                           |                |
| How will you repeat your main message?               |                |
| What are your action steps?                          |                |
| How will you respect people's fears and perceptions? |                |
| What options are you giving your audience?           |                |

#### 2. Using debunking guidance

The Debunking Handbook 2020<sup>6</sup> and other debunking resources emphasize the importance of structuring messages in a strategic manner so as to refute false claims. Figure D1 shows the components a message needs to have to successfully debunk and "unstick" misleading rumors. Experts also recommend appealing to scientific consensus, ensuring the corrected information is not more complex than the initial rumor, and providing a coherent alternative explanation for the rumor.<sup>7</sup>



Figure D1. Structure of a message that debunks a rumor, adapted from The Debunking Handbook 20206

The following worksheet can be used to develop messages using debunking framing.

| Guiding questions   | Your responses |
|---|----------------|
| What is your fact? State what is true first.  |                |
| How will you warn about the myth? Repeat the rumor, only once, directly prior to the correction.                |                |
| How will you explain the fallacy? Ensure the rebuttal is clearly and saliently paired with the rumor.           |                |
| What fact are you reinforcing at the end? Restate the fact again, so the fact is the last thing people process. |                |

#### 3. Using the Truth Sandwich

The "Truth Sandwich" is a journalism technique that is similar to approaches used in debunking but focuses more on preventing the unintentional spread of additional false or misleading claims. The basic structure of a Truth Sandwich is:

- 1. Start with the truth. The first frame gets the advantage.
- 2. Indicate the lie. Avoid amplifying the specific incorrect language if possible.
- 3. Return to the truth. Always repeat truths more than lies.

For example, the following Truth Sandwich script might be used during a natural disaster to address a rumor that individuals cannot use a disaster shelter unless they are US citizens:

| Truth | We understand that there are concerns about shelter availability. We want to emphasize that any member of the public can use a disaster shelter. |
|-------|--|
| Lie   | No one will be turned away from a disaster shelter based on citizenship.   |
| Truth | Disaster shelters are open to all members of the public.   |

The following worksheet can be used to develop messages using the Truth Sandwich framing.

| Guiding questions                          | Your responses |
|--|----------------|
| What is the first truth you want to share? |                |
| How will you indicate the lie?             |                |
| How will you repeat your truth statement?  |                |

#### 4. Using storytelling approaches

Storytelling allows audiences to understand cause-and-effect relationships, see patterns in important information, empathize with each other, and pay attention to the issue. You can craft strategic stories using story maps like <u>Figure D2</u> and incorporate good practice for writing compelling stories. 9,10

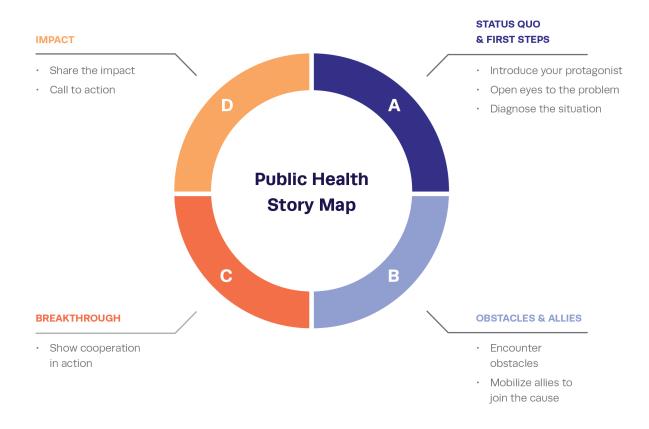


Figure D2. A Public Health Story Map that helps structure stories around a narrative arc9

The following worksheet can be used to develop messages using a storytelling approach.

| Guiding questions   | Your responses |
|---|----------------|
| Clearly state a specific goal that you are working on.    |                |
| Who can help you achieve that goal?                       |                |
| What do you hope your story will make them more aware of? |                |
| What emotions do you hope your story will provoke?        |                |
| What actions should your story motivate them to take?     |                |

#### 5. Outline for framing a social or scientific issue

FrameWorks provides suggestions on strategically ordering messages and building strong frames to help create better messages. <sup>11</sup> This way of framing messages discourages you from skipping over deeper explanations of a problem's origin. The technique asks communicators to lead with an aspirational principle, explain how an issue works, state the problem, and end with a proposed solution.

The following worksheet can be used to develop messages using this framing. FrameWorks shares examples of how this generic outline applies to the topic of childhood vaccinations.

| Guiding questions  | Your responses |
|--|----------------|
| <b>Principle:</b> Lead with an ideal that society should uphold.   |                |
| Tap into a collective concern—ideally, using a tested message that speaks to shared values.  |                |
| Process: Explain how the issue works. Establish a mechanism or process at play, using explanatory techniques like examples or metaphors.                     |                |
| <b>Problem:</b> Put some tension in the plot.  Make social conditions or structures the "bad guys." Paint these threats as important but not insurmountable. |                |
| <b>Proposal:</b> Point to solutions. Highlight promising or proven collective approaches to addressing the problem.  |                |

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### **Appendix E: Developing Messages Using LLMs**

Large language models (LLMs) can help you come up with generic content as a starting point for a message¹ that can then be modified to better fit with the good practices suggested in this playbook and adjusted to maximize message engagement and effectiveness. However, current LLMs are not a perfect solution for creating messages, often do not incorporate the most up-to-date information, and sometimes hallucinate incorrect information.² Below is an example of using Chat GPT-3.5 to generate the initial content for a message to address a hypothetical rumor that "the government started wildland fires in Hilton County in order to give occupied, low-income residential land to developers at cost."

We asked Chat GPT-3.5: Please create a brief Facebook post that a local public health department should post after a wildfire in Hilton County to address a rumor that "the government started wildland fires in order to give occupied, low-income residential land to developers at cost."

#### **Chat GPT-3.5 generated the following message:**

🔥 Community Announcement: Addressing Rumors about Wildfires in Hilton County 🔥

Dear Residents of Hilton County,

We understand that there have been concerning rumors circulating about the recent wildfires in our area. It's crucial to address these misconceptions. The notion that the government intentionally started these wildfires to allocate land to developers is entirely false and without merit.

Wildfires are natural disasters with multiple causes, often ignited by a variety of factors such as lightning strikes, human activity, or other unpredictable events. Our dedicated firefighters and emergency responders have been tirelessly working to contain and control these fires, prioritizing the safety and well-being of our community.

As your local public health department, we are committed to transparency and the truth. Our sole aim is to support and safeguard the health and welfare of all our residents. We are not involved in any land allocation or development schemes.

We urge everyone to rely on verified information from trusted sources. It's essential to refrain from spreading unverified claims, as they can cause unnecessary fear and confusion within our community.

For reliable updates and information regarding the wildfires and their impact, please stay tuned to our official announcements and verified sources.

Let's continue to support each other during this challenging time and work together to recover and rebuild our beloved Hilton County.

Sincerely,

[Your Local Public Health Department]

Chat GPT-3.5 used the following techniques to develop this message, which we learned by asking it "What framing, rhetoric, and communication techniques did you use to create that message?":

- Clarity and Directness: The message is clear and direct in addressing the specific rumor about the government starting wildfires for land allocation. It confronts the issue straightforwardly.
- Empathy and Understanding: The tone is empathetic towards the concerns and fears of the community members, acknowledging the seriousness of the situation and the impact of the rumors.
- Authority and Credibility: The message is conveyed on behalf of the local public health department, establishing authority as a trusted source of information. This adds credibility to the statement.
- Factual Information: It presents verified information about the nature of wildfires, acknowledging their various causes and emphasizing that the department is not involved in land allocation or development schemes.
- Community Engagement: Encourages community members to rely on verified sources and official announcements, emphasizing the importance of accurate information, and discouraging the spread of unverified claims.
- Reassurance and Support: Offers reassurance and support to the community, reaffirming the department's commitment to the health and welfare of the residents and advocating unity during a challenging time.
- Call to Action: Encourages the audience to stay tuned for updates through official channels, promoting an ongoing connection with the community and a source of reliable information.

The LLM successfully used several best practices and techniques mentioned in the playbook to generate a comprehensive message. Its call to action, method of reassuring the community, and emphasis on relying on verified sources of information are great ways to leverage risk communication practices. The list below details a few shortcomings of the message and how they could be addressed.

| Shortcomings of the message  | How it could be improved   |  |
|--|--|--|
| The use of fire icons at the beginning can appear unserious and tone-deaf, given the gravity of the emergency.   | Use a neutral alarm or megaphone icon to draw attention to the post or use no icon at all.                                     |  |
| By debunking a sensational rumor directly and so<br>shortly after the fire, the post may unintentionally<br>amplify the rumor and make it spread faster. | Instead of refuting the rumor directly and risking amplifying it, speak directly to what is known about the cause of the fire. |  |
| Listing potential unconfirmed sources of wildfires could push residents to jump to conclusions about other possible causes of this wildfire.             | Remove any language that could promote conjecture around the cause of the wildfire unless a confirmed cause is known.          |  |

| Shortcomings of the message  | How it could be improved   |
|--|--|
| Acknowledging the local public health department's lack of connection with land allocation, while honest, could instigate the opposite and motivate conspiracy thinking about their role in causing the fires. | Unless the public relations implications are more important than communicating information shortly after an emergency, prioritize turning the audience's attention to important information they need to navigate and recover from the crisis. |
| The message uses a cold, matter-of-fact tone and reserves empathy for only 1-2 statements.   | Acutely after and during crises, people look to connect with their community. To promote community cohesion, the message should use an empathetic tone throughout and foster a sense of compassion, understanding, and togetherness.           |
| The message did not use plain language.  | Use plain language principles to make the message simpler.   |

You could improve the quality of this message by editing the initial prompt and follow-up requests to add more details, parameters, and conditions to shape the outputs, as well as review and manually modify the draft message by using information from this playbook or other health and/or risk communication guidance.

#### References

- 1. Lim S, Schmälzle R. Artificial intelligence for health message generation: an empirical study using a large language model (LLM) and prompt engineering. *Front Commun.* 2023;8. doi:10.3389/fcomm.2023.1129082
- Tayeb Z. ChatGPT will keep "hallucinating" wrong answers for years to come and won't take off until it's on your cellphone, Morgan Stanley says. Business Insider. Published February 23, 2023. Accessed October 31, 2023. <a href="https://markets.businessinsider.com/news/stocks/chatgpt-ai-mistakes-hallucinates-wrong-answers-edge-computing-morgan-stanley-2023-2">https://markets.businessinsider.com/news/stocks/chatgpt-ai-mistakes-hallucinates-wrong-answers-edge-computing-morgan-stanley-2023-2</a>

# **Appendix F: List of Tools**

The following table compiles the tools and resources that are hyperlinked throughout the playbook, in order of appearance.

| Author(s)   | Tool name   | Subsection (if applicable)   | Link   |
|---|---|--|--|
| Johns Hopkins Center for<br>Health Security                                       | Appendix A: Checklist to Build Trust, Improve Public Health Communication, and Anticipate Rumors During Public Health Emergencies |  | Tool included in appendix  |
| World Health<br>Organization (WHO),<br>United Nations Children's<br>Fund (UNICEF) | Infodemic Insights<br>Report  | Annex A7: Scaling up or<br>scaling down infodemic<br>insights, p. 44-46<br>Annex A7: Table, p. 44-<br>46<br>3.2: Defining risk<br>assessment criteria, p.<br>14-17 | https://www.who.<br>int/publications/i/<br>item/9789240075658  |
| World Health<br>Organization (WHO)  | WHO competency<br>framework: Building a<br>response workforce to<br>manage infodemics   |  | https://www.who.<br>int/publications/i/<br>item/9789240035287  |
| FrameWorks  | Must-Have Messenger<br>Mindset  |  | https://www.nasn.org/<br>vaccine-toolkit/toolkit/<br>must-have-messenger-<br>mindset-its-all-about-<br>the-relationship      |
| Public Health<br>Communications<br>Collaborative (PHCC)                           | Plain Language for Public<br>Health   | Defining Your Audience<br>and Goals, p.4<br>Step 3: Review and<br>Testing, p.7-8   | https://publichealthcol-<br>laborative.org/wp-con-<br>tent/uploads/2023/02/<br>PHCC_Plain-Language-<br>for-Public-Health.pdf |
| United Nations Children's Fund (UNICEF)   | Vaccine Misinformation<br>Management Field Guide:<br>Information Ecosystem<br>Assessment  |  | https://www.unicef.<br>org/mena/reports/<br>vaccine-misinformation-<br>management-field-guide                                |
| Johns Hopkins Center for<br>Health Security                                       | Appendix B: Audience Persona Characterization Tool  |  | Tool included in appendix  |

| Author(s)                                   | Tool name   | Subsection (if applicable) | Link  |
|---|---|----------------------------|---|
| Google                                      | Google Alerts   |                            | https://newsinitiative.<br>withgoogle.com/<br>resources/trainings/<br>fundamentals/google-<br>alerts-stay-in-the-know/        |
| Talkwalker                                  | Talkwalker  |                            | https://www.talkwalker.<br>com/free-social-media-<br>monitoring-analytics-<br>tools   |
| Meltwater                                   | Meltwater   |                            | https://www.meltwater.<br>com/en  |
| Sprout Social                               | Sprout Social   |                            | https://sproutsocial.<br>com/   |
| х   | XPro (formerly<br>TweetDeck)  |                            | https://pro.x.com/  |
| Awario                                      | Awario  |                            | https://awario.<br>com/social-media-<br>monitoring-tools/   |
| Mindtools                                   | SMART Goals   |                            | https://www.mindtools.<br>com/a4wo118/smart-<br>goals   |
| The Decision Lab                            | The OODA Loop   |                            | https://thedecisionlab.<br>com/reference-guide/<br>computer-science/the-<br>ooda-loop   |
| Sundelson AE, Jamison<br>AM, Huhn N, et al. | 4 i Framework<br>for Advancing<br>Communication and<br>Trust (4 i FACT) |                            | https://bmcpublichealth.<br>biomedcentral.com/<br>articles/10.1186/<br>s12889-023-16612-9                                     |
| Lewandowsky S, Cook J,<br>Lombardi D        | The Debunking<br>Handbook 2020  |                            | https://doi.<br>org/10.17910/b7.1182  |
| CARE USA                                    | Can Non-Profits Use<br>Social Media to Promote<br>Public Health?        |                            | https://www.care.org/<br>news-and-stories/can-<br>non-profits-use-social-<br>media-to-promote-<br>public-health/              |
| NACCHO                                      | Socia Media Toolkit   |                            | https://www.naccho.org/<br>uploads/downloadable-<br>resources/<br>Communications/<br>NACCHO-Social-Media-<br>Toolkit-2021.pdf |

| Author(s)   | Tool name  | Subsection (if applicable)   | Link   |
|---|--|--|--|
| Community Tool Box  | Implementing Social<br>Marketing   |  | https://ctb.ku.edu/<br>en/implement-social-<br>marketing-effort                                    |
| Smith Rogers L,<br>Sharfstein J                           | Podcasting as a Tool for<br>Crisis Communications  |  | https://www.liebertpub.<br>com/doi/abs/10.1089/<br>hs.2023.0049?journal-<br>Code=hs                |
| US Centers for Disease<br>Control and Prevention<br>(CDC) | Health Communication<br>Playbook   | Media Communications,<br>p. 62-77<br>Identify Key Messages<br>and Talking Points | https://stacks.cdc.gov/<br>view/cdc/103379   |
|   |  | Worksheet, p.6,7   |  |
|   |  | Use Design and Layout<br>Effectively, p.17-26                                    |  |
| FrameWorks  | Order Matters  |  | https://www.<br>frameworksinstitute.org/<br>article/order-matters/                                 |
| US Centers for Disease<br>Control and Prevention<br>(CDC) | How to Develop Products<br>for Adults with<br>Intellectual<br>Developmental<br>Disabilities<br>and Extreme Low<br>Literacy |  | https://www.cdc.gov/<br>ccindex/pdf/idd-ell-<br>product-development-<br>tool-508.pdf               |
| US Centers for Disease<br>Control and Prevention<br>(CDC) | Simply Put: A guide<br>for creating easy-to-<br>understand materials   |  | https://stacks.cdc.gov/<br>view/cdc/11938  |
| Association of State and<br>Territorial Health Officials  | COVID-19 Public Health<br>Communications<br>Resource Hub   |  | https://www.astho.<br>org/topic/infectious-<br>disease/covid-19/<br>communications-<br>resource/   |
| US Centers for Disease<br>Control and Prevention<br>(CDC) | Description of the<br>Science Impact<br>Framework  |  | https://archive.<br>cdc.gov/#/<br>details?url=https://www.<br>cdc.gov/os/impact/<br>framework.html |
| National Cancer Institute (NCI)                           | Constructs and Measures<br>for Health Behavior   |  | https://cancercontrol.<br>cancer.gov/brp/<br>research/constructs                                   |

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