

CMSS Council of Medical Specialty Societies



CMSS-NAM-WHO Collaboration: Phase 2: Identifying Credible Sources of Health Information in Social Media

Summary: Identifying Credible Sources of Health Information in Social Media

Phase 2: Considerations for Non-accredited Nonprofit Organizations, For-profit Entities, and Individual Sources

A collaboration of the Council of Medical Specialty Societies, the National Academy of Medicine, and the World Health Organization

Executive Summary

A recent report suggests that approximately 59% of the global population uses some form of social media [1]. Although it is difficult to assess usage across the globe, current work estimates that some 90% of Americans use social media to search for health information [2]. Recent reports suggest a growing amount and influence of health mis- and dis-information online. In the context of such high use of social media by the public to inform their health decisions, the quality of health information and misinformation promulgated on social media takes on greater importance.

In response, Google/YouTube supported efforts, conducted in two phases, to develop principles and attributes to guide social media and other digital platforms in identifying and elevating credible sources of health information. The first phase was completed in 2021 by an advisory panel convened by the National Academy of Medicine (NAM) and yielded the foundational principles and attributes for determining credibility of health information sources.¹ The scope of Phase 1 was limited to United States-based entities and concentrated on nonprofit and government entities with established vetting or accrediting procedures. In Phase 1, the advisory group proposed three foundational principles to support assessment of credibility: 1) science-based; 2) objective; and 3) transparent and accountable [3] and developed attributes for assessing a source's alignment with the principles. The World Health Organization (WHO) convened an expert panel to vet this initial guidance for a global perspective [4]. Here, we summarize the output of Phase 2.

Phase 2 was carried out by a multidisciplinary advisory committee convened by the Council of Medical Specialty Societies (CMSS), in collaboration with NAM and WHO. The committee was charged with adapting the principles and attributes established in Phase 1 as a foundation to evaluate other health information sources, including other nonprofit entities, for-profit entities, and individuals, with an eye

¹ For an overview of the NAM project, see https://nam.edu/programs/principles-for-defining-and-verifying-the-authority-of-online-providers-of-health-information.

towards global applicability. A draft document was posted for public comment, and those comments were considered in the finalization of the report.

The committee concluded that all health information sources should be held to the three foundational principles of being science-based, objective, and transparent and accountable. Additionally, a new cross-cutting principle of inclusiveness, which weaves through the original principles and across all information sources, was developed. This new principle is important for ensuring credible health information is accessible to all but may be challenging to incorporate without considering *content* rather than *source*; it is therefore currently being refined.

To address some potential challenges in expanding the proposed principles and attributes to a wider group of sources (non-profits without accreditation, for-profits, and individuals), the committee suggested several modifications to the original attributes (Table 1). The committee also discussed how to implement the principles and attributes in practice. It was agreed that sources could be required to adhere to a preponderance of the attributes, but a consensus on which attributes should be prioritized was not reached.

Table 1: Phase 2: Proposed Modifications to Attributes of Foundational Principles for Identification of Credible Sources of Health Information in Social Media

Note: Text that is **bold** represents the additions, changes, and deletions generated by the advisory committee in Phase 2. Attributes that are the same across sources are presented in a merged row.

Attributes	<u>Principle: Science-Based</u> Sources should provide information that is consistent with the best scientific evidence available at the time and meet standards for the creation, review, and presentation of scientific content.			
	Nonprofits	For-profits	Individuals	
	Acknowledges the limitations and evolution of science (e.g., early or incomplete knowledge, as seen in emerging diseases; small sample size; correlation versus causation, etc.); indicates when there is debate and limited clarity			
	Clearly labels information with the date it was last updated and strives to reassess and update content; includes attestation that this represents up-to-date information which may change over time			
	Demonstrates subject-specific expertise (i.e., consistent and well-regarded contributions in a given field); indicates original content vs. re-purposing from a credible source.		Discloses licensure, education, training, and scientific expertise to platform	
	Links to and is linked to by other credible sources		Links to other credible sources.	
	Provides accurate citations from high quality scientific sources, including peer review and validated data sources, to justify claims			
	Synthesizes information from multiple sources, rather than a single source			
	Uses a consensus process to develop the information shared		Not applicable	
	Uses peer review or another form of content review to vet information before sharing.		Not applicable	

	<u>Principle: Objective</u> Sources should take steps to reduce the influence of financial and other forms of conflict of interest (COI) or bias that might compromise or be perceived to compromise the quality of the information they provide.			
Attributes	Nonprofits	For-profits	Individuals	
	Keeps health information separate from financial, political, or advocacy messages.	Keeps health information separate from financial, political, or commercial messages		
	Maintains independence from funders; has a policy about maintaining scientific independence		Maintains independence from funders	
	Separates lobbying activities from health information			
	Clearly identifies sponsored posts, paid partnerships, or advertising for fundraising purposes Does not include advertisements with related health information without disclosures (or does not host advertisements at all)	Clearly identifies education/ information versus marketing. Does not include advertisements with related health information without disclosures (or does not host advertisements at all)	Clearly identifies sponsored posts and paid partnerships in accordance with local guidelines and regulations	
	Principle: Transparent and Accountable Sources should disclose the limitations of the information they provide, as well as conflicts of interest, content errors, or procedural missteps.			
	Nonprofits	For-profits	Individuals	
Attributes	Discloses financial and nonfinancial conflicts as well as mission statements on their website	Discloses financial and nonfinancial conflicts; discloses resulting organizational revenue	Discloses financial and nonfinancial conflicts, including revenue in accordance with local guidelines and regulations	
Attri	Discloses relevant advocacy and policy positions and lobbying activities			
	Adheres to healthcare ethics and transparency principles			
	Posts public corrections or retractions; updates are posted on a scheduled periodic basis			
	Provides a mechanism for public feedback			
	Shares data, methods, or draft recommendations. Discloses efforts made to be balanced and inclusive in development of evidence-based health information			
Attributes	<u>Principle: Inclusive and Equitable (Under Development)</u> Sources should prioritize inclusion of diverse, equitable, and trusted voices for health information that reflect the demographics of the audience			
	Nonprofits	For Profits	Individuals	
	Uses accessible and culturally appropriate language for intended population			
	Avoid stigmatizing language about specific groups of people			
	Prioritize equitable access to health information			
	Contextualize and make research relevant for the intended population			

Implementation

Establishing a set of principles and attributes by which sources can be deemed credible is a vital first step, but the proof will be in the implementation of these criteria. Their use in elevating credible content needs to be evaluated with a critical eye both towards applicability for the global community, and towards applicability across multiple social media platforms. The committee agreed that attestation alone, while a first step, would be insufficient for establishing credibility. The committee therefore supported creating a standardized biographical statement or attestation for individual sources to use to consistently link to key attributes, such as licensure, expertise, and conflicts, across social media platforms; ideally, these attributes should be able to be verified independently. Moreover, committee members recommended that source credibility be reviewed regularly both to allow new sources to become credible, and to remove sources that may no longer be meeting credibility criteria. Specific criteria to be evaluated should be considered within the context of local regulations (e.g., FTC regulations in the US regarding advertisements). From an end-user standpoint, it was considered valuable for the consumer to understand the factors used to define credibility of a source. The committee also encouraged as much consistency in application of attributes across platforms as feasible. Finally, beyond the present goal of identifying credible sources, the committee emphasized the need to further explore pragmatic and effective means of managing the larger issue of health-related mis- and disinformation content.

Processes for Assessment and Testing the Processes

Recognizing the implementation challenges that are likely to occur, the committee agreed that it is essential to iteratively test how the algorithms perform in accurately flagging credible sources of valid health information, and, ultimately, how consumers make use of the results. The committee emphasized that testing of the assessment process will be critical both prior to wide-scale implementation of assessing sources (through use cases and pilot tests), and over time (following potential credible sources, longitudinally), to determine whether the processes are functioning as intended and whether there is evidence of inadvertent harm. This testing should include global platforms. The committee encouraged social media platforms to develop transparent, standardized, digitally verifiable processes to assess how well a source aligns with the principles and attributes that would allow for a judgement of credibility. Lastly, social media platforms are encouraged to collaborate with research experts to assess the impact of credible source labeling and elevation of the reach of credible sources as, ultimately, the value of the label only derives from its public validity.

References

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