The Disclosure Dilemma: How Al Attribution Affects Reactions to







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Background

Public communicators are increasingly using AI to create messages for efficiency and scale.

Public Health Messages

- The public is often skeptical of AI, viewing it as less empathetic and trustworthy than human experts in some cases.
- If AI is to be used, how should it be disclosed, if at all?
- Immediate disclosure risks undermining message credibility
- Concealed usage risks brand/source reputation

Hypotheses and Research Questions

- Disclosure of Al usage will reduce perceptions of message credibility, source trust, and source expertise.
 - Up-front disclosure will increase perceived transparency
 - Delayed disclosure will *reduce* perceived **transparency**
- Does type of disclosure ("created" vs. "edited") matter?
- Does late disclosure hurt more than early?
- Does disclosure affect learning and information-seeking?

Takeaways

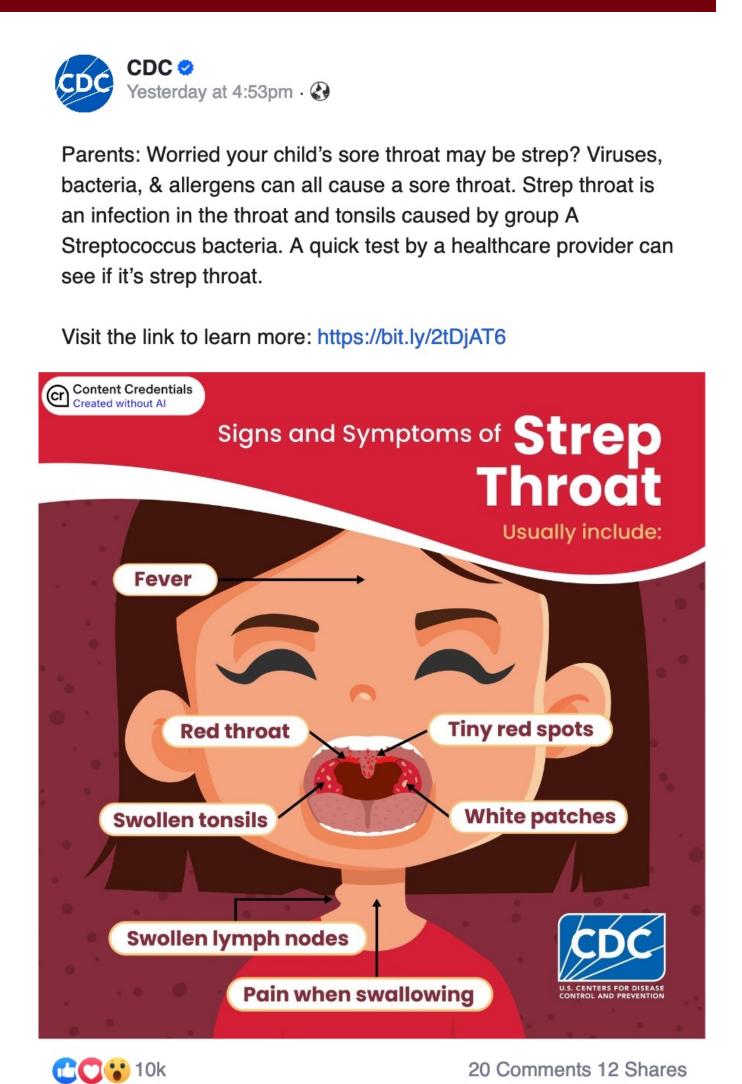
- Ethical disclosure of Al usage undermines message effectiveness:
- Message is perceived as less credible
- Recipients learn less from the message (important in public health)
- Later disclosure of Al usage (e.g., via news reporting) hurts the source:
- Seen as less trustworthy
- Seen as less transparent than up-front disclosing source
- If Al is used, health communicators must decide whether they will accept reduced effectiveness by disclosing use or risk reputational damage to the institution by concealing it

Methods

- **Design**: An online <u>experiment</u> (N = 1,500 U.S. adults) where participants view four real CDC social media posts, with random assignment of disclosure about AI usage (or not).
- Conditions:
 - No Disclosure: (Image with original caption)
 - Denial: "Not created with AI" badge + caption text.
 - Al Generated: "Generated by Al" badge + caption text.
 - Late Disclosure: Participants were told post-exposure that the CDC had been caught using AI without disclosure.
 - If disclosure, manipulate "generated" or "edited" with AI.

Stimuli Examples











Quick Summary

- Does the type, timing, and presence of a disclosure of Al usage affect perceptions of public health messages?
- Al disclosure reduces perceived message credibility, source trustworthiness, and source expertise.
- Late disclosure (not included with message) hurts credibility more than disclosure with message.
- Up-front disclosure reduces learning from message
- Trade-off between credibility preservation and effectively transmitting information.

Key Results

Figure 1: Al Disclosure Harms the Message

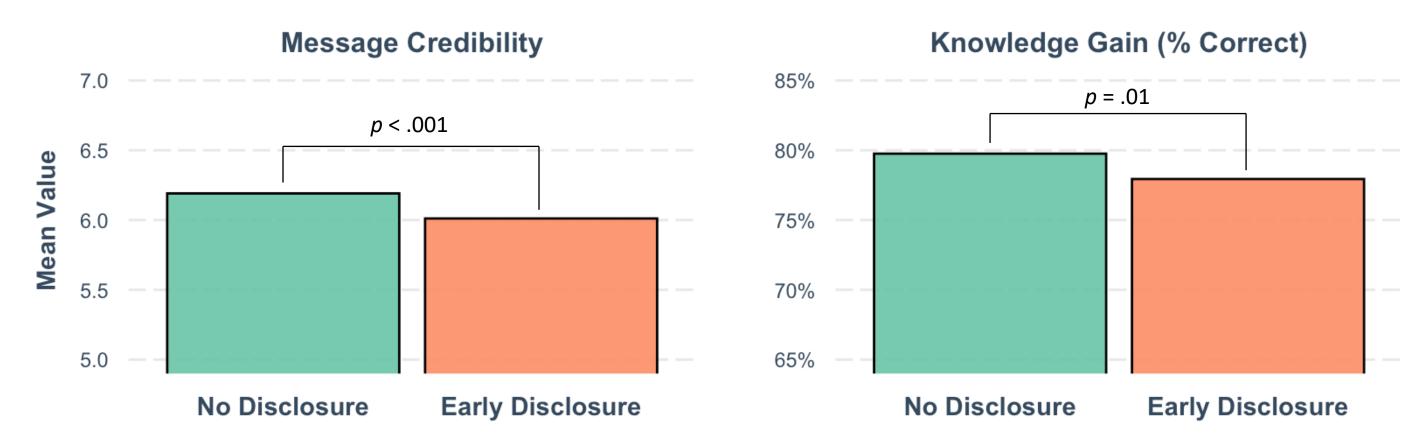
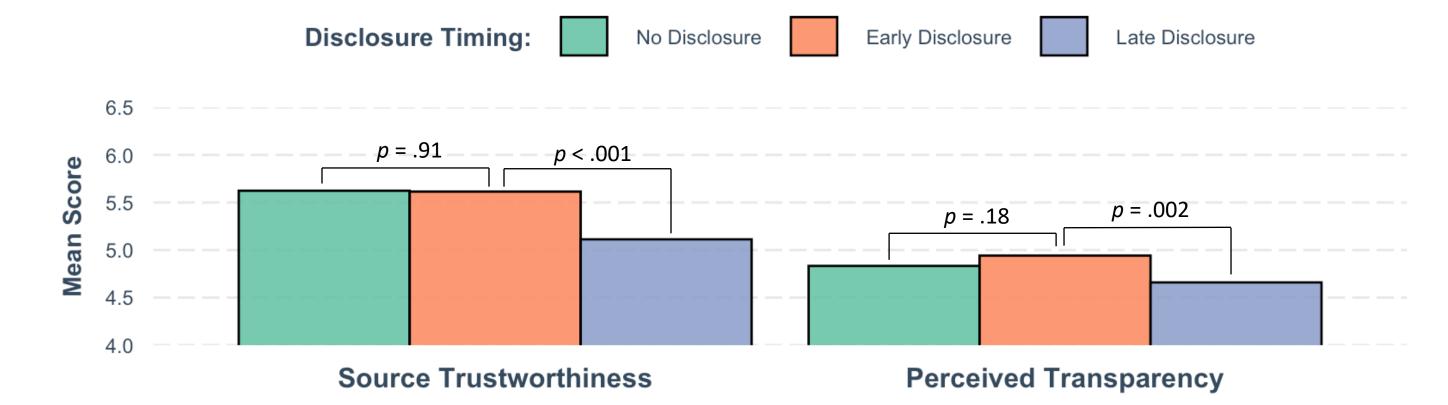


Figure 2: Late Disclosure is Costly to the Source



Key Results

- No difference between "generated" and "edited" wording
- No credibility difference between denial of Al usage vs. no mention (p = .23)
- No effects on information-seeking dependent variable

