Science Communication During Crisis

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Government-University-Industry Research Roundtable
The National Academies of Sciences, Engineering, and Medicine

FIRST DRAFT





TOO MUCH INFORMATION? OUR GUIDE CAN HELP

Designed for the public, 'Too much information: A guide to navigating the infodemic' will help everyone have better informed conversations with family and friends about the pandemic.



COVERING CORONAVIRUS: AN ONLINE COURSE FOR JOURNALISTS

Discover practical steps to help verify online content, counter rumors and disinformation, and produce credible coverage on Covid-19.



CORONAVIRUS WEBINAR SERIES

First Draft is sharing skills, insights, and tools to support reporters and the wider public in response to the "infodemic" surrounding coronavirus. Check the upcoming schedule.



Experimental Projects



Groundbreaking research



Educational resources

FIVE STRATEGIES

- We need to understand the full complexity of information disorder
- 1) We need to understand the power of visuals and emotion
- We need more research about which communication strategies effectively slow down misinformation
- We need to train scientists, public health professionals and comms officers in best practices for reporting on misinformation
- We need to be reactive to misinformation crises but we also need to be ready for the next one

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TYPES OF INFORMATION DISORDER

FALSENESS

INTENT TO HARM

Is the inforrmation inaccurate?

Is the information created to cause harm?

Mis-Information

When people unintentionally make mistakes e.g. inaccurate photo captions, dates, statistics or translations, or when satire is taken seriously.

Dis-Information

When people intentionally create or share false information in order to harm someone, e.g. fabricated news websites, manipulated audio/visual content, some conspiracy theories and rumours, etc.

Mal-Information

When people publicize accurate but private information to harm someone, e.g. revenge porn, leaks that pursue private rather than public interests.

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7 COMMON FORMS OF INFORMATION DISORDER



No intention to cause harm but has potential to fool



Misleading use of information to frame an issue or individual



When genuine sources are impersonated



New content is 100% false, designed to deceive and do harm



FALSE CONNECTION

When headlines, visuals or captions don't support the content



FALSE CONTEXT

When genuine content is shared with false contextual information



MANIPULATED CONTENT

When genuine information or imagery is manipulated to deceive

SATIRE



MISLEADING CONTENT

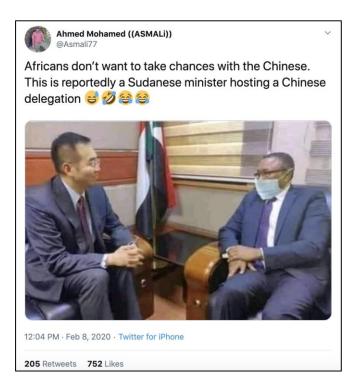


IMPOSTER CONTENT



MANIPULATED CONTENT





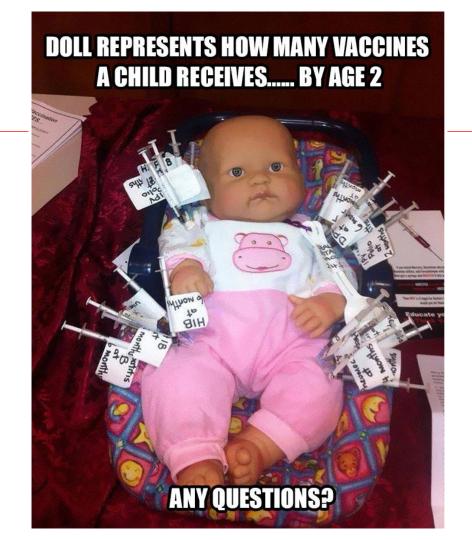
FABRICATED CONTENT



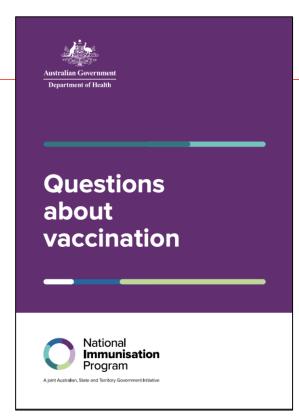
COVID-19 TRAINING

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TWO: We need to understand the power of visuals and memes







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Questions about vaccination	
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Mythbusters



Q: Can gargling mouthwash protect you from infection with the...

To date, there is no specific medicine recommended to prevent or treat the new coronavirus (2019-ncov). However, those infected with the virus should receive appropriate care to relieve and treat symptoms, and those with severe illness should receive optimized supportive care.

Some specific treatments are under investigation, and will be tested through clinical trials.

WHO is helping to accelerate research and development efforts with a range of partners.

Q: Are there any specific medicines to prevent or treat the new...

At present, there is no evidence that companion animals / pets such as dogs or cats can be infected with the new coronavirus. However, it is always a good idea to wash your hands with soap and water after contact with pets. This protects you against various common bacteria such as E. coli and Salmonella that can pass between pets and humans.

Q: Can pets % 😭 at home spread the new #coronavirus? A: At...

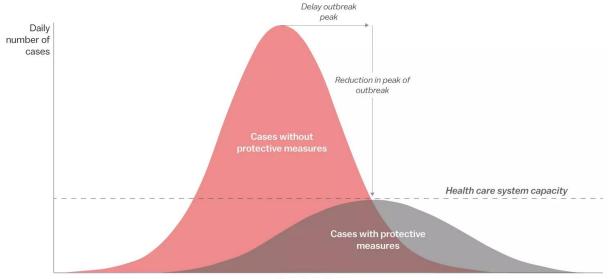
People of all ages can be infected by the new coronavirus (nCoV-2019). Older people, and people with pre-existing medical conditions (such as asthma, diabetes, heart disease) appear to be more vulnerable to becoming severely ill with the virus. WHO advise people of all age to take steps to protect themselves from the virus, for example by following good hand bygiene and good respiratory hygiene.

Q: Does the #2019nCoV affect older people, or are younger people also...

No, antibiotics do not work against viruses, only bacteria. The new coronavirus (2019-nCOV) is a virus and, therefore, antibiotics should not be used as a means of prevention or treatment. However, if you are hospitalized for the 2019-nCOV, you may receive antibiotics since bacterial coinfection is possible.

Q: Are antibiotics effective in preventing and treating the new...

Flattening the curve



Time since first case

Vox

Source: CDC

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Coronavirus Truth





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THREE: We need more research into effective communication strategies to slow down misinformation

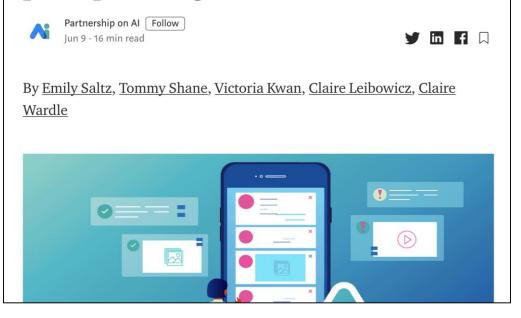
Most effective messengers?

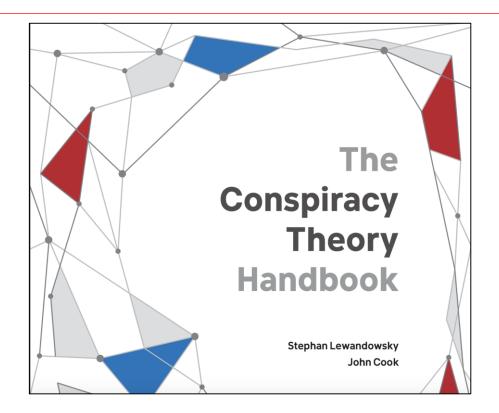
Most effective messages?

Most effective formats?

Most effective distribution mechanisms?

It matters how platforms label manipulated media. Here are 12 principles designers should follow.





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FOUR: We need to train scientists, public health professionals and comms officers in best practices for reporting on misinformnation

1. Spraying chlorine or alcohol on skin kills viruses in the body

Applying alcohol or chlorine to the body can cause harm, especially if it enters the eyes or mouth. Although people can use these chemicals to disinfect surfaces, they should not use them on skin.

These products cannot kill viruses within the body.

2. Only older adults and young people are at risk

SARS-CoV-2, like other coronaviruses, can infect people of any age. However, older adults or individuals with preexisting health conditions, such as diabetes or asthma, are more likely to become severely ill.

3. Children cannot catch COVID-19

All age groups can become infected. Most cases, so far, have been in adults, but children are not immune. In fact, preliminary evidence shows that children are just as likely to become infected, but their symptoms tend to be less severe.







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FIVE: We need to be reactive to misinformation crises but we also need to be rebuiding trust and understanding so we're ready for the next one

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Credit - Joe Smyser, Public Good Project



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Asymptomatic spread of coronavirus is 'very rare,' WHO says

Government responses should focus on detecting and isolating infected people with symptoms, said the WHO's Dr. Maria Van Kerkhove.

Total Interactions 1.15M ■ 1.12M ■ ¥ 28.2k

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Monday, June 08, 2020 by: Mike Adams

Tags: asymptomatic carriers, contact tracing, coronavirus, covid-19, goodhealth, goodmedicine, goodscience, infections outbreak, pandemic, vaccines, WHO





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THE WATCHDOGS

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By ANDREW JOSEPH @DrewQJoseph / JUNE 9, 2020

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Maria Van Kerkhove, the WHO's technical lead on the Covid-19 pandemic.

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February 19, 2020

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- Thank you @cwardle =