

Effective Strategies to Counter Science Denialism in Public

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Debates are...



...higly attractive

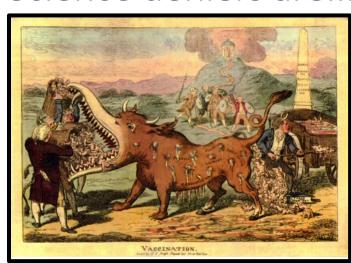
Benoit, McKinney, & Holbert, 2001; Patterson, 2002

...persuasive

An & Pfau, 2006; Jamieson and Birdsell, 1988; Lanoue and Schrott, 1989; Schrott, 1990

...naturally combative

Science deniers are...



...highly present in media

Davies, Chapman & Leask 2002, Scullard, Peacock & Davies 2010

...persuasive

Betsch et al. 2010; Jolley & Douglas 2014

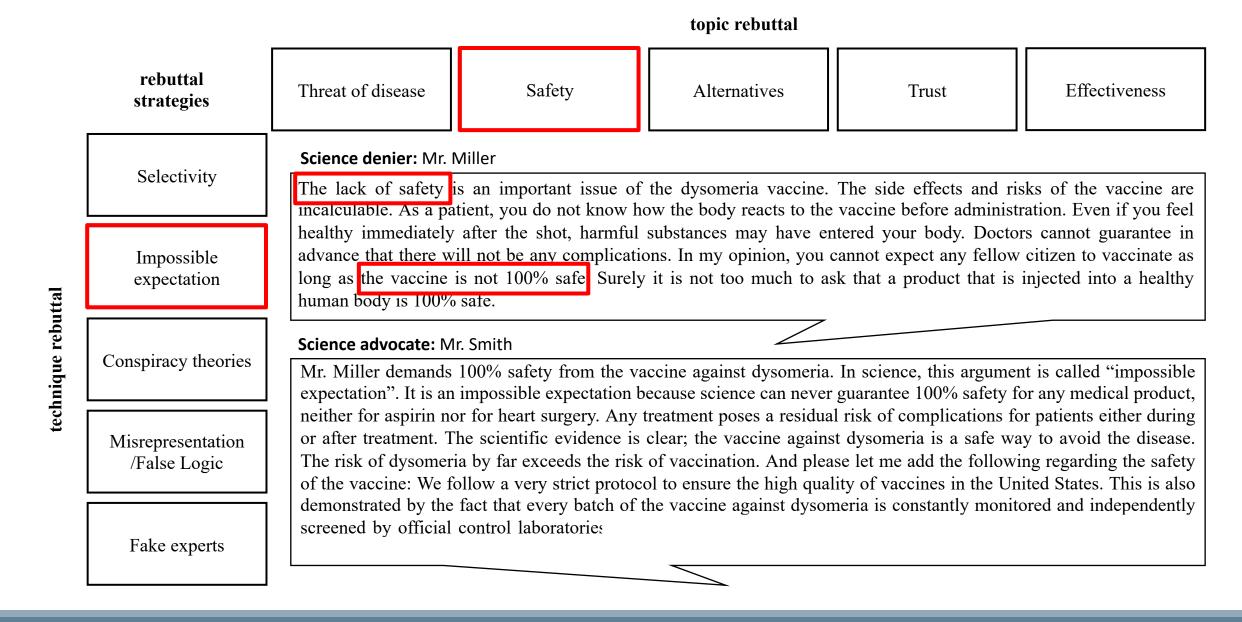
...highly combative





How to respond to vocal vaccine deniers in public

5 x 5 Matrix of Rebuttal





Goal of the studies: Empirical evaluation

human behaviour

ARTICLES

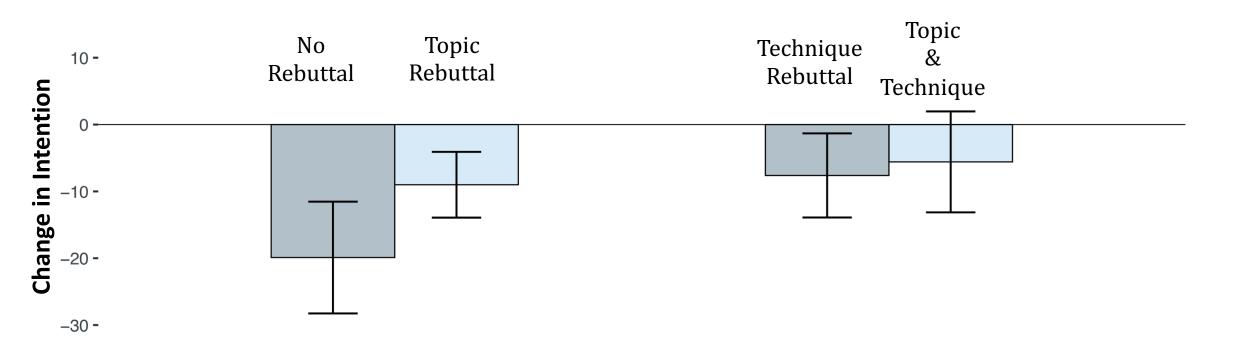
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Effective strategies for rebutting science denialism in public discussions

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Results: Experiment 1 from 6





Result 1:

Deniers damage attitudes and intentions

Result 2:

Technique OR Topic rebuttal mitigates the damage

Result 3:

No evidence that complex messages are needed

Result 4:

No evidence of backfire

Conclusion

- Messages of science denialism cause damage.
- Rebuttal approaches mitigate the damage.
- > Rebuttal is effective even in vulnerable groups.



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Thank you!