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Cultivating Healthy Scepticism towards Help-seeking Ads: Dispelling the Illusion of Unique Invulnerability

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Background & Aims

Two experiments investigated the efficacy of an educational intervention designed to help individuals be better at evaluating help-seeking ads as trustworthy or untrustworthy. Our aims were to demonstrate that the intervention: Leads to better sponsor identification. Leads to greater scepticism towards pharmaceutical advertising. Cultivates healthy scepticism in individuals. Experiment 1 yielded promising results, but it also highlighted areas for improvement—specifically: how our intervention was delivered and the design of our help-seeking ads. Consequently, Experiment 2 was conducted to address Experiment 1’s limitations and replicate its findings. Therefore, only Experiment 2 is discussed in detail here.

Help-seeking Ads & The Pharmaceutical Industry

• The pharmaceutical industry is prohibited from promoting prescription drugs to the Australian public.
• Help-seeking ads are an increasingly popular strategy used by pharmaceutical companies to engage the public.
• There is emerging evidence that people do not differentiate between government-sponsored and industry-sponsored help-seeking ads.
• Consumers might be unaware that industry-sponsored help-seeking ads are a form of advertising.
• Consumer ignorance of the inherent conflict of interest prevents the informed evaluation of industry-sponsored help-seeking ads.

Who is a Healthy Sceptic?

A healthy sceptic will neither simply accept nor disregard information that is provided in a help-seeking ad. Instead, he/she will consider who is responsible for disseminating the information and whether its sources are trustworthy or untrustworthy. Our goal is to train health consumers to be healthy sceptics.

Industry-sponsored Ads: Good or Bad?

Pros [1,2]

• Improves patient education
• Reduces under diagnosis or under treatment
• Lowers the economic costs on healthcare

Cons [3-7]

• Information provided may be biased or inaccurate
• Helps the industry dictate what health conditions should dominate in the media

What is the Illusion of Unique Invulnerability?

The tendency to hold the “it won’t happen to me” belief. It has been demonstrated that the illusion of unique invulnerability can negatively influence the effectiveness of an educational intervention.

For an intervention to be effective, the individual must first experience that he/she is susceptible to the risk under consideration. This is achieved by explicitly demonstrating to the individual that he/she is vulnerable.

Sponsor Identification Accuracy

**Intervention group**

Participants were more likely to correctly identify the ad sponsor than control group participants, OR = 8.83, p < .001. See Figure 3. In addition, the government-sponsored ad was more likely than the industry-sponsored ad to be correctly identified by participants, OR = 5.58, p < .001. Scepticism towards Pharmaceutical Advertising

**Intervention group**

Participants had statistically significantly greater scepticism towards pharmaceutical advertising (M = 32.29, SD = 4.40) than control group participants (M = 26.17, SD = 5.60), p < .001. The difference between groups had a large effect size, d = 1.22. See Figure 5.

Method

The ads were counter-balanced between participants to eliminate the ad-specific confounds observed in Experiment 1.

The Intervention

An exercise was devised to explicitly demonstrate to individuals that they were persuaded by an untrustworthy help-seeking ad first, participants were shown an industry-sponsored ad. Next, they were asked to indicate how convinced they were by the ad on a 7-point scale and provide the two main reasons behind that decision. Lastly, participants were given a brief to read that highlighted the individual’s answer provided earlier and informed the participant that he/she was convinced by an untrustworthy ad commissioned by a sponsor.

Outcome Measures

• Sponsor identification accuracy (force-choice question)
• Scepticism towards pharmaceutical advertising (9-item SKEP scale)
• Perceived value of help-seeking ad (binary Yes/No response)
• Behavioural intentions after viewing ad (6-items, Yes/No response)

Materials

Help-seeking Ads

Help-seeking ads for three medical conditions: Coeliac Disease, Multiple Sclerosis, & Social Anxiety Disorder were used. Each condition had 4 variants that were unique combinations of sponsor (pharmaceutical/government) and gender (male/female).

Results

Perceived Value of Help-seeking Ads

There was a significant Group x Ad-type interaction, p < .001. See Figure 4.

Sponsor Identification Accuracy

There was a significant Group x Ad-type interaction, p < .001. See Figure 4.

Scepticism towards Pharmaceutical Advertising

There was a significant Group x Ad-type interaction, p < .001. See Figure 4.

Behavioural Intentions after Viewing Ads

There was a significant Group x Ad-type interaction, p < .001. See Figure 4.

Conclusion

**Improved Identification Accuracy**

Experiment 2’s effects were substantially larger (OR Exp 2 = 8.83 vs. OR Exp 1 = 3.09), suggesting that the changes in how the intervention was delivered improved its efficacy.

**Increased Scepticism towards Pharmaceutical Advertising**

Once again, Experiment 2’s effects were substantially larger (Cohen’s d Exp 2 = 1.56 vs. Cohen’s d Exp 1 = 0.40) reiterating the positive impact of the improved intervention. However, it remains unclear whether these attitudinal changes are resilient over time.

**Cultivated Healthy Scepticism**

Healthy scepticism was observed for the perceived value of the ad, but not for behavioural intentions.

The intervention group only worked in favour of trustworthy government ads, increasing the likelihood of seeking further information. However, the intervention did not instil resistance to untrustworthy pharmaceutical ads. The intervention group’s behavioural intentions after viewing pharmaceutical ads were not significantly different to the control group’s.

This pattern of responding is usually observed when the illusion of unique invulnerability is at play. So, even though the intervention group could identify pharmaceutical-sponsored ads and did not perceive these ads as valuable, their perceived invulnerability to untrustworthy ads impeded their ability to resist the ads.

Further research is needed to develop the right balance between successfully dispelling the illusion of invulnerability in participants and keeping the participants engaged with the educational message.

References