You've Been Warned:

Pictorial Warning Labels Increase Motivation for Improving Digital Habits

Sarah Staehle & Kostadin Kushlev, Ph.D. **Introduction**

Anti-smoking campaigns show health warnings on cigarette packs to be effective; even better outcomes are found when graphic pictures of consequent lung damage accompany these warning labels (Fong, et al., 2009).

Can graphic and written warnings on the consequences of unhealthy digital habits affect desire to change these habits?

Methods

Participants. N=231 adults from MTurk. Experimental conditions. In this preregistered study, participants were randomly assigned to one of three conditions: text and graphic digital warnings, text only digital warnings, and text and graphic control warnings on unrelated content (DUI).

Measures. We measured motivation to change (a single question motivation measure; Boardman, et al., 2015) and contemplation to change (a measure anchored in the stages of the transtheoretical model; modified from Biener, et al., 1991). A combined variable of 'motivation and contemplation' was used in analysis.

Warning labels
about unhealthy
digital habits
increase
motivation to
change behavior

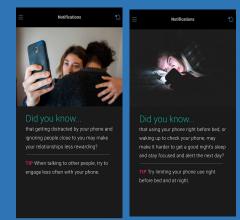


TIP Try setting goals to limit screen time



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Text and graphic Text only Control

Mean Motivation & Contemplation to change

Results

A one-way ANOVA showed an omnibus effect of condition on motivation and contemplation to change one's behavior, F(2, 228) = 4.12, p = .017.

People across the combined text.

M(SD) = 4.86(2.63) and graphic warning labels M(SD) = 5.28(2.85) conditions were more motivated to improve their digital habits than control participants, M(SD) = 4.05(2.67) t (228) = 2.69, p = .008. Examining the effectiveness of including graphics with the warning, compared to just text, we found similar results: people in the graphic labels condition were significantly more motivated to change than those in the control, d = .45, p_{bonf} = .015, while the text only warning condition was not, d = .30, p_{bonf} = .30.

Discussion

To motivate change in digital habits, exposure to written warnings of health consequences proved effective; including pictorial content trended in the direction of improving effectiveness of labels; future studies should further explore the impact of graphics on warning labels.

Learn more about the project here:

