Catastrophic worry and systematic processing: Exploring an information processing account of perseveration

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Study 1: Background

Negative mood increases catastrophic worry (Johnson & Davey, 1997) and systematic processing (e.g. Ambady & Gray,

The appraisals associated with negative mood may increase cognitive variables known to increase an individual's sufficiency threshold (level of effort required to attain a sufficient degree of confidence that processing goals have been met) and consequently increase an individual's tendency to use systematic processing strategies.

We hypothesised that participants exposed to a negative mood induction (vs.. Neutral or Cognitive Priming) would score higher on measures of systematic processing facilitators (accountability, responsibility, need for cognition, desire for control, and a composite measure)

Method

Mood Induction (Negative, Neutral or cognitive priming)

Manipulation checks and VAS questionnaire

Results

The mood inductions were successful; the Negative Mood group was significantly sadder (F(2, 55) = 10.86, p < .001,partial $\eta^2 = .28$) and less happy (F(2, 55) = 5.28, p = .008,partial $n^2 = .16$) than the Neutral and Cognitive Priming groups.

The Negative Mood group scored significantly higher on the measures of accountability (F(2, 55) = 5.98, p = .004, partial η^2 = .18), responsibility (F(2, 57) = 7.80, p = .001, partial $\eta^2 = .29$), and a composite measure of the systematic processing facilitators $(F(2, 55) = 6.91, p = .003, partial n^2 = .20)$

References

Ambady, N. R., & Gray, H. M. (2002). On being sad and mistaken: Mood effects on the accuracy on thin-slice judgements. Journal of Personality and Social Psychology, 83 (4), 947-961. Johnson, W. M., & Davey, G. C. L. (1997). The psychological impact of negative TV news bulletins: The catastrophizing of personal worries. British Journal of Psychology, 88 (1), 85. Meyer, T. J., Miller, M. L. Metzger, R. L., & Borkovec, T. D. (1990). Development and validation of the Penn State Worry Questionnaire. Behaviour Research and Therapy, 28, 487-495.

Figure 1: Mean scores on VAS measures from study 1(error bars represent standard deviations)

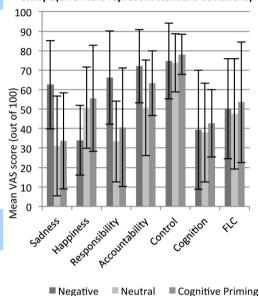
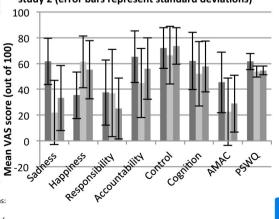


Figure 2: Mean scores on VAS measures from study 2 (error bars represent standard deviations)



Neutral

Negative

■ Cognitive Priming

Study 2: Background

Study 2 extended the design in order to assess the effect of experimental mood manipulations on worry. We hypothesised that the negative mood induction group would score higher on the measure of worry, as well as the systematic processing facilitators.

Method

Mood Induction (Negative, Neutral or cognitive priming)

Manipulation checks and VAS questionnaire

Penn State Worry Questionnaire (PSWQ; Meyer, Miller, Metzger & Borkovec, 1990)

Results

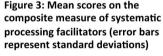
The mood inductions were successful: the Negative group was significantly sadder (F(2, 83)) = 23.98, p < .001, partial $n^2 = .37$) and less happy $(F(2, 83) = 13.18, p < .001, partial <math>\eta^2 = .24)$.

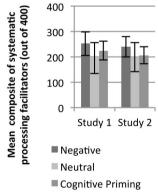
The Negative group scored significantly higher on accountability (F(2, 83) = 4.10, p = .02, partial η^2 = .12), a composite measure of the systematic processing facilitators (F(2, 79) = 3.68, p = .030), and 'As Many As Can' deployment (F(2, 83) =7.13, p = .001, partial $\eta^2 = .15$). The Negative group scored significantly higher on the PSWQ $(F(2, 81) = 3.60, p = .032, partial \eta^2 = .08)$. The relationship between Negative Mood and higher PSWQ scores was fully mediated by the composite systematic processing facilitators score.

Systematic

facilitators

Mood Induction





Conclusions

The findings are consistent with the view worrying by facilitating factors known to increase deployment of systematic processing.

that negative mood results in perseverative

Worry (PSWQ)