Exploring temporal distancing as an emotion regulation strategy across adolescence

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Background

- Adopting a distant- relative to a near-future perspective (e.g. “this will not matter in five years time”) when reflecting on emotionally distressing personal events reduces distress in adults (Bruehlman-Senecal & Ayduk, 2015).
- Adolescence is associated with poor emotion regulation (ER) abilities, especially for adolescents high in aggression (Hubbard et al., 2010).
- Although developmental research on other explicit ER strategies (e.g. reappraisal) exists, it is unknown whether the ability to effectively use ‘temporal distancing’ as an ER strategy varies across adolescence.
- While aggression and anxiety have been associated with poorly regulated responses to emotional stimuli in adults (Mauas, et al., 2007; Menin et al., 2005), no study has specifically looked at these variables in relation to temporal distancing.

Questions

1. Is temporal distancing an effective ER strategy (behaviourally & physiologically)?
2. Does the ability to effectively use the strategy vary from adolescence to adulthood?
3. Does the ability to effectively use the strategy vary across different levels of aggression?

Methods

- Eighty-three participants aged 12-22 (49 females) recruited from Harvard Summer School and the university participant database.
- Questionnaires: Reactive-Proactive Aggression Questionnaire (Raine et al., 2006) and State-Trait Anxiety Inventory (Spielberger et al., 1983).
- Skin conductance recorded using AcqKnowledge software (Biopac).

Experimental Task

Stimuli:
- Consisted of 10 neutral and 30 negative real-life-relevant situations (scenarios).
- Scenarios for the negative conditions were matched on average distress and arousal ratings from a pilot study.

Conditions:
- ‘Read’ (passively reading neutral scenarios)
- ‘Read’ (passively reading negative scenarios)
- ‘Think of whether this would still affect you in the NEAR future’ (negative scenarios)
- ‘Think of whether this would still affect you in the DISTANT future’ (negative scenarios)

Skin Conductance Results

- Main effect of Condition (p = .035).
- Read Negative and Near conditions elicited greater skin conductance responses (SCRs) than the Neutral condition.
- Distancing reduced SCRs to be indistinguishable from neutral.
- No sig differences between negative conditions though we see expected pattern emerging.

Conclusions

- Temporal distancing is an effective ER strategy over and above no strategy and taking a near-future perspective.
- The further into the future one thinks of when using this strategy, the more one is able to effectively reduce their subjective distress and arousal.
- Skin conductance data suggests that temporal distancing is effective at reducing physiological arousal down to similar levels of SCRs elicited during the reading of neutral scenarios.
- The lack of developmental differences in temporal distancing ability suggests that the strategy can be easily implemented and is effective for young adolescents and adults alike.
- However, this strategy may be of limited effectiveness in those with high levels of reactive aggression.

References


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**p < .001, *p < .05, t-test**