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Mindfulness and Power Posing Interventions to Decrease Emotional Distress

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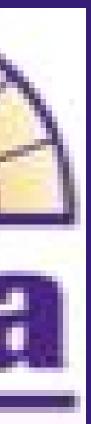


Introduction

- Increased mindfulness has been correlated with decreases in negative physiological and psychological processes and increases in desired physiological and psychological processes (Bostic et al., 2015; Kabat-Zinn, 2005)
- E.g., anxiety, chronic pain
- E.g., Response to medication treatments
- Researchers suggested that power posing increased testosterone and decrease cortisol (Carney, Cuddy, & Yap, 2010)
- Leading to increase in feelings of power and self-confidence
- Not replicated (Ranehill et al., 2015)

Methods and Materials

- Participants: 4 college freshman from a Midwestern university
- Students were asked to complete a measure of emotional distress, CESD-R; those who reported a moderate level of emotional distress were invited to participate in the interventions
- Single case design: ABACAD
- Students randomly assigned to order of intervention implementation
- Participants taught mindfulness, power posing and a combination intervention - mindful power posing (practicing mindfulness while in a power pose)
- Participants implemented intervention once per day and rated their emotional distress using the Patient Health Questionnaire – 2
- Daily practice and emotional distress recorded daily on a Google form
- Return to baseline conducted for one week between each two week intervention phase, continued to monitor emotional distress daily
- Repeated CESD-R screener at end of intervention



Mindfulness and Power Posing Interventions to Decrease Emotional Distress Nicole Skaar, Ph.D., Lydia Carlson, MAE, Cori Austin, MAE, & Jacklyn Johnson, MAE University of Northern Iowa



Pre and Post differences in CESD-R scores (no post intervention data was gathered for Participant A): • Participants D and T had reductions on the total score of over 25 points from initial CESD-R. • Participant D had a 83% reduction in score on the appetite subscale of the CESD-R suggesting an increased appetite

- after intervention.
- Participants B, D, and T all had slight reductions in scores on the guilt subscale suggesting improved view of self.
- Participant B had small increases in scores on the fatigue and agitation subscales suggesting decreased alertness and in the moderately distressed range after participating in the interventions.

Implementation Integrity:

- Participants were trained by PI prior to beginning each intervention phase, but were responsible for daily independent intervention adherence and monitoring of emotional distress
- Participants did not fully adhere to daily practice of the intervention and progress monitoring
- No integrity checks on the quality of the interventions
- Integrity of intervention completion was varied from 45%-100%

Results

increased restlessness. While this participant reported an overall decrease in emotional distress, her score remained

Conclusions

- Interventions have a slight effect on emotional distress; one not more effective than another.
- Participant A showed lower emotional distress during mindful-power posing combination compared to other intervention phases, but no different than baseline levels
- Participant B showed lower emotional distress during power posing
- Participants T and D seemed to benefit from intervention, but not one intervention over another. Possible that first intervention lowered emotional distress.
- Conclusions tentative due to:
- Implementation integrity issues
- Partial return to baseline, inconsistant baseline
- Limitations
- Students participation level
- Small number of PHQ-2 daily questions
- Studies have arisen suggesting power posing is not an effective way of changing state of mind
- For future studies
- Increase participation
- More representative sample

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