

Does a Growth Mindset Intervention Reduce Perfectionism and Procrastination?

Erica Bown & Dr. Michele Moscicki, Psychology Department, MacEwan University

Introduction

Growth Mindset vs Fixed Mindset:

- Individuals with a growth mindset (GM)...
 - View challenges and failures as opportunities to learn and grow.
- Individuals with a fixed mindset...
 - View challenges and failures as obstacles that can stop them from progressing and achieving their goals.

Negative Perfectionism:

- Involves an unhealthy drive towards achieving high standards, characterized by excessive¹...
 - Concerns
 - Anxiety
 - Harsh self-criticism
 - Avoidance of situations where mistakes can be made
- Leads to chronic stress².

Procrastination & Fear of Failure:

- Procrastination involves unnecessarily delaying task progress or completion².
- Extreme fear of failure is positively associated with both procrastination and negative perfectionism³.
- Procrastination due to fear of failure leads to avoidance of situations that may jeopardize one's ability to maintain a high standard¹.

Purpose of Current Study:

Investigate the effectiveness of a growth mindset intervention for reducing negative perfectionism and procrastination due to fear of failure.

Methods

Participants:

 31 MacEwan University students.

Conditions:

- **1. Control** (n = 16)
- 2. Growth Mindset **Intervention** (n = 15)

Growth Mindset Intervention:

- Infographic
- Video Practice scenario
- Weekly reminder emails for 1 month

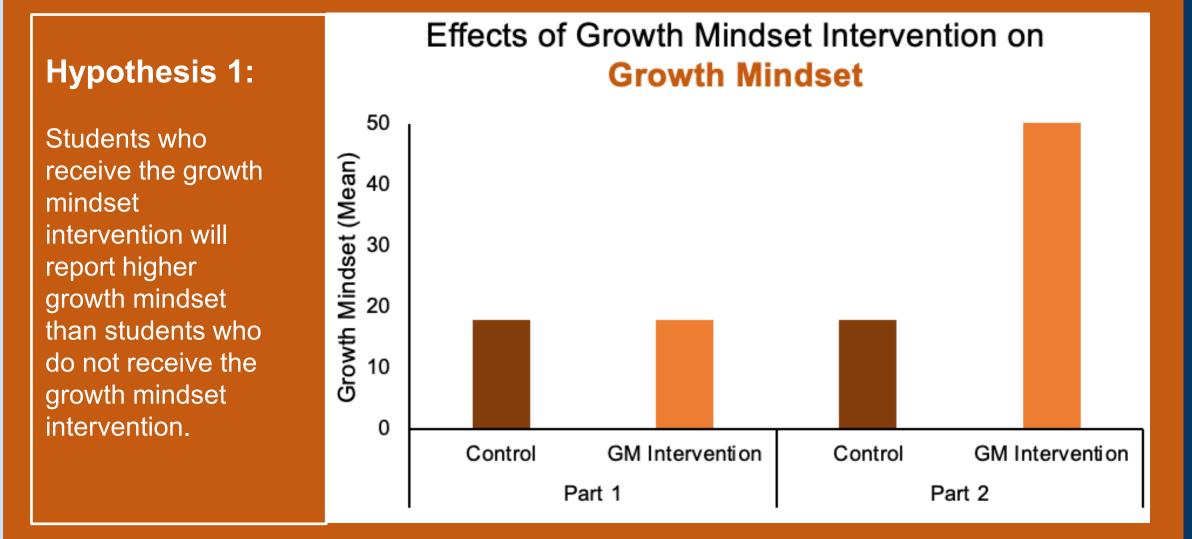
Part 1

- Students answered questions assessing
 - Stress⁴
 - Procrastination^{[5][6]}
 - Perfectionism^{[7][8]}
 - Growth mindset⁹
- The intervention group received a growth mindset intervention.

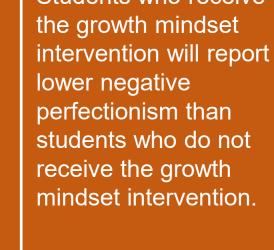
Part 2

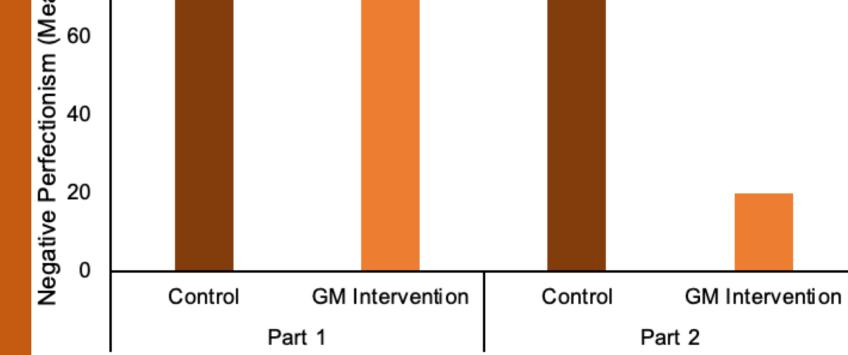
- Occurred 4 weeks after completing Part 1.
- Students filled out the same questionnaires from Part 1.

Hypotheses



Hypothesis 2: udents who receive he growth mindset





Effects of Growth Mindset Intervention on

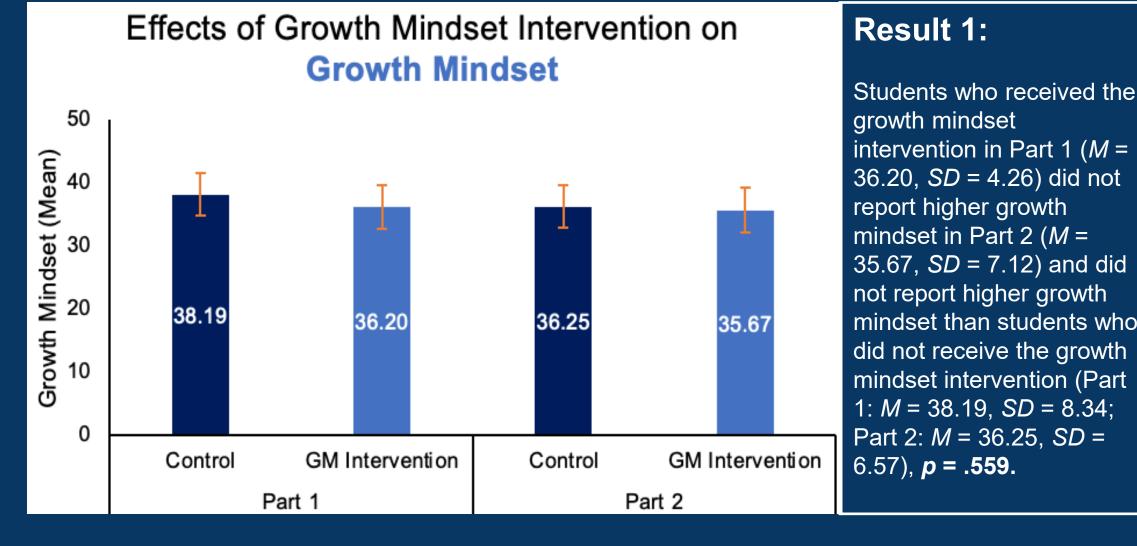
Negative Perfectionism

Hypothesis 3:

Students who receive the growth mindset ntervention will report ower procrastination due to fear of failure nan students who do not receive the growth indset intervention.

Effects of Growth Mindset Intervention on **Procrastination Due to Fear of Failure** GM Intervention GM Intervention Control Control

Growth Mindset Intervention Results



Effects of Growth Mindset Intervention on

Negative Perfectionism

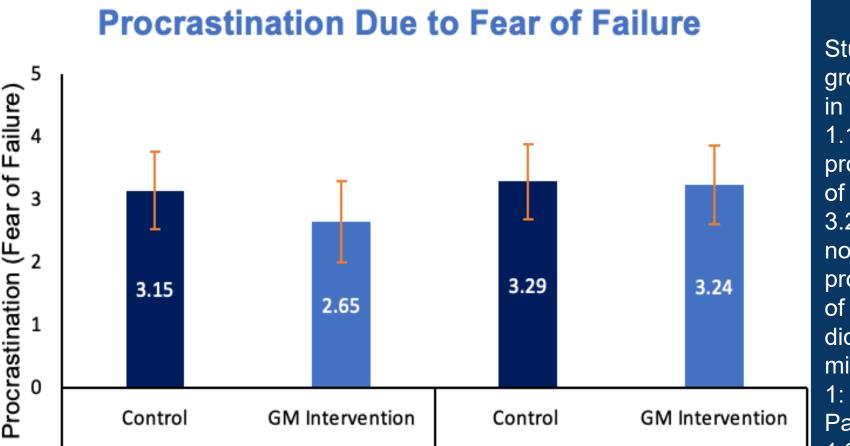
Result 2:

Students who received the growth mindset intervention in Part 1 (*M* = 64.93, *SD* = 15.36) did not perfectionism in Part 2 (M = 61.00, *SD* = 14.83) and did not report lower negative perfectionism than students who did not receive the growth mindset ntervention (Part 1: *M* = 67.69, SD = 15.43; Part 2: GM Intervention M = 65.56, SD = 12.93),

Effects of Growth Mindset Intervention on

Part 2

Part 2



p = .465.

Result 3:

Students who received the arowth mindset intervention in Part 1 (M = 2.65, SD =1.11) did not report lower orocrastination due to fear of failure in Part 2 (*M* = 3.24, *SD* = 1.11) and did not report lower procrastination due to fear of failure than students who did not receive the growth mindset intervention (Part 1: *M* = 3.15, *SD* = 1.34; Part 2: *M* = 3.29, *SD* = 1.29), p = .491.

Discussion

Results:

- The GM intervention in the current study failed to produce any significant changes in GM, negative perfectionism, and procrastination due to fear of failure in the GM intervention group.
- We found a moderate positive correlation between stress and procrastination due to fear of failure.
- We found a strong positive correlation between stress and negative perfectionism.

Limitations:

- Underpowered
- The GM measure that was used calculated an overall GM score, rather than a score for different subscales of GM (e.g., intelligence, sports, creativity, etc).

Conclusion:

- University students' stress is highly associated with negative perfectionism and procrastination due to fear of failure.
- These findings suggest that students may benefit from stress reduction methods that target perfectionism and fear of failure more specifically.

Future Directions:

- Further research is necessary to determine effective interventions to reduce negative perfectionism and procrastination due to fear of failure. Reducing these traits should help to reduce student stress.
- Future research on GM among university students may benefit from using a GM scale that measures an intelligence subscale of GM.

References

¹Mofield, E.L., Peters, M.P. (2018). Shifting the perfectionist mindset: Moving to mindful excellence. Gifted Child Today, 41(4), 177-185. Doi: https://doi.org/10.1177/1076217518786989

²Zhang, Y., Bai, X., & Yang, W. (2022). The chain mediating effect of negative perfectionism on procrastination: An ego depletion perspective. International Journal of Environmental Research and Public Health, 19(15), 9355-9348. Doi: https://doi.org/10.3390/ijerp19159355

³Flett, G.L., Blankstein, K.R., Hewitt, P.L., & Koledin, S. (1992). Components of perfectionism and procrastination in college students. Social Behaviour and Personality, 20(2), 85-94. Doi: https://doi.org/10.2224/sbp.1992.20.2.85

⁴Cohen, S., Kamarck, T., & Mermelstein, R. (1983). *Perceived Stress Scale* [Database record].

⁵Solomon, L.J., & Rothblum, E.D. (1984). Academic procrastination: Frequency and cognitive behavioral correlates. Journal of Counselling Psychology, 31, 503-509.

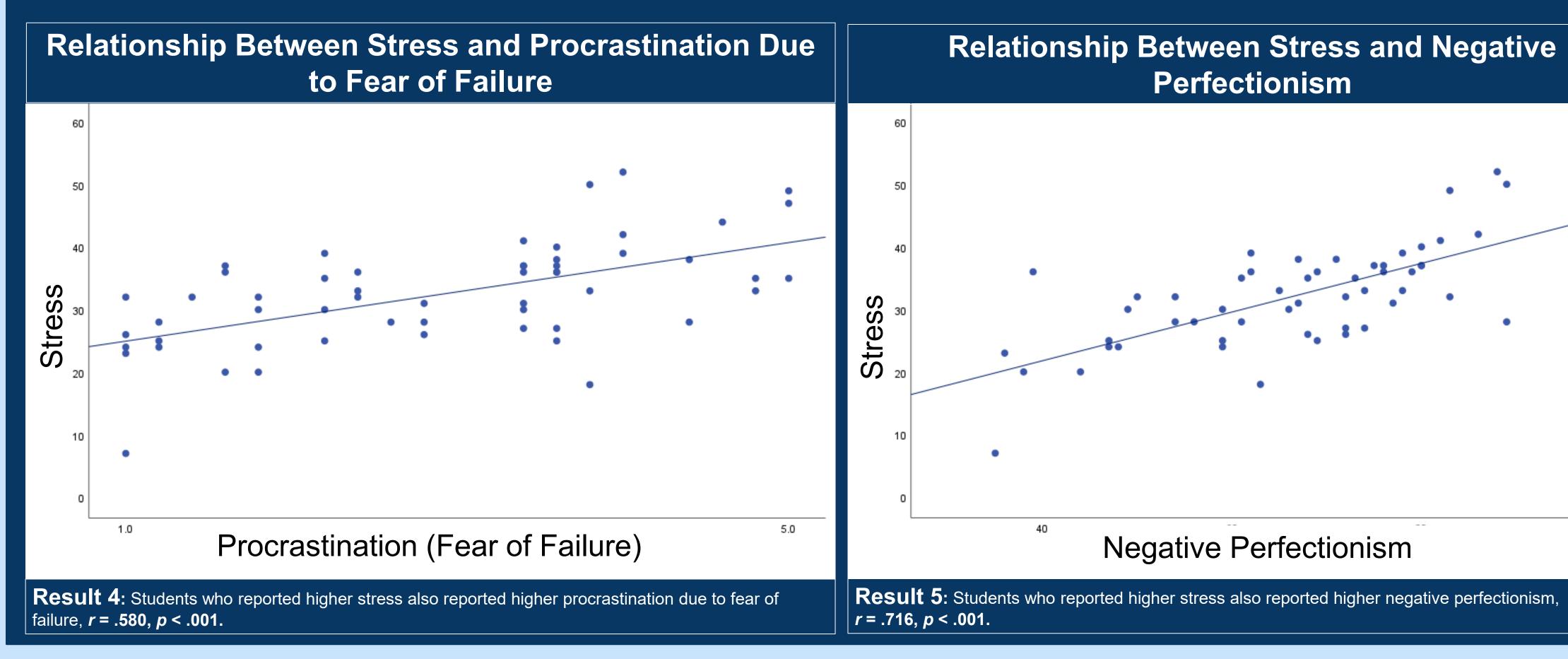
⁶Stainton, M., Lay, C. H., & Flett, G. L. (2000). Trait procrastinators and behavior/trait-specific cognitions. Journal of Social Behavior and Personality, 15, 297-312. ⁷Frost, R. O., & Marten, P. A. (1990). Perfectionism and evaluative threat. *Cognitive Therapy*

and Research, 14, 559-572. Terry-Short, L. A., Glynn Owens, R., Slade, P. D., & Dewey, M. E. (1995). Positive and negative perfectionism. Personality and Individual Differences, 18, 663-668. ⁹Dweck, C. (2006). Mindset: The new psychology of success. New York, NY: Ballantine Books.

Acknowledgements

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Procrastination, Perfectionism, & Stress Results



Part 2