Stress, Childhood Socioeconomic Status, and Impulsivity

Owen Wilson, Katja Cunningham, & Sarah E. Hill Texas Christian University

Background

- Research finds that people with low socioeconomic status (SES) in childhood development go on to exhibit an exaggerated inflammatory response to stress as adults (Janusek et al., 2017).
- Although inflammation is damaging in the longterm, this response is thought to be the result of a physiological present-focus, where present survival is prioritized at the cost of long-term health (Gassen et al., 2019)
- It is unknown whether stress also elicits a **psychological** present focus among people from low SES environments, which could guide behavior.

Hypothesis

We predicted that people experiencing stress would exhibit greater impulsivity (a reduced ability to delay gratification and lower self control), compared to people not experiencing stress.

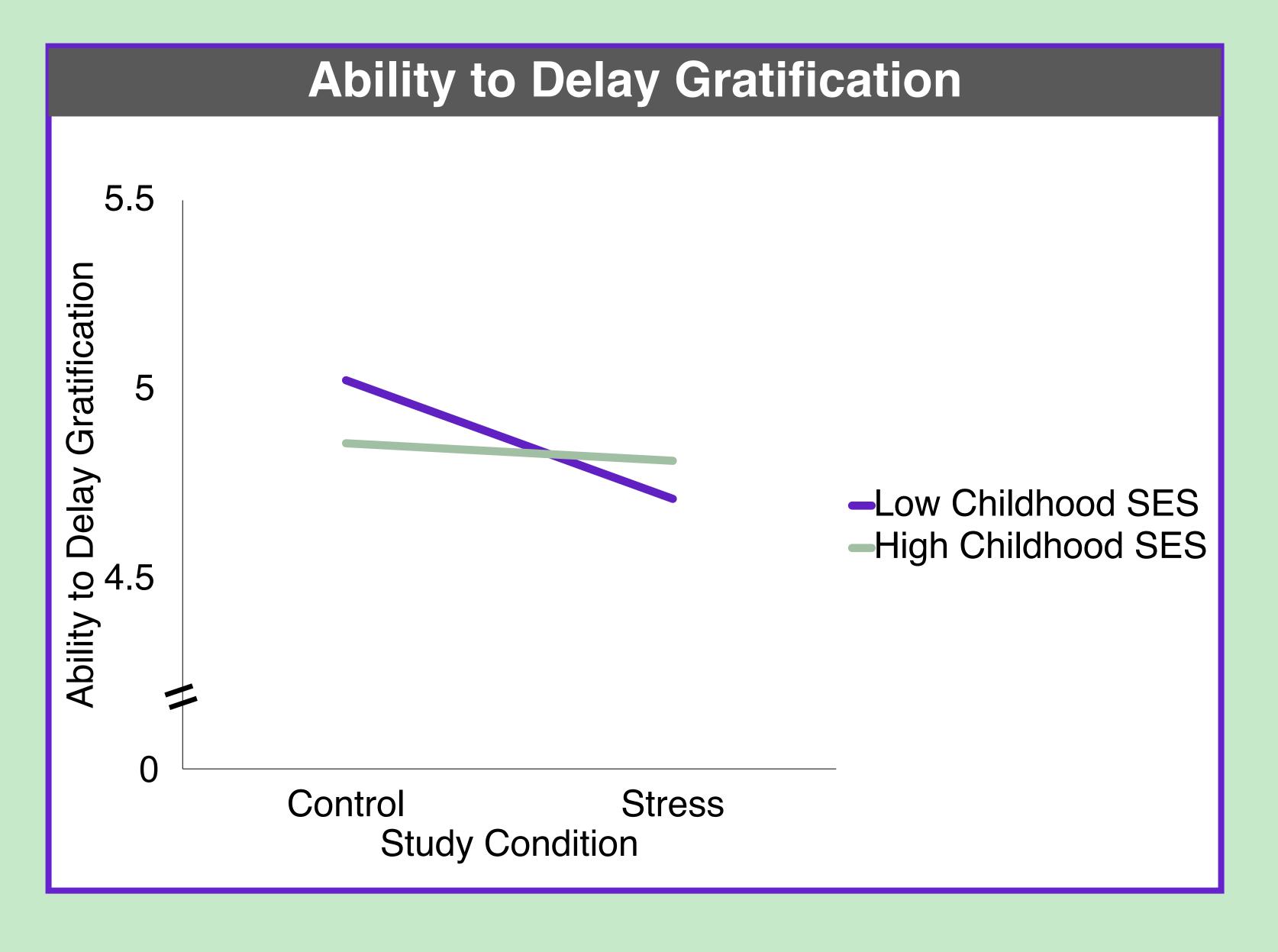
HOWEVER

We predicted that stress would only increase impulsivity among people with low childhood SES.

Method

- 56 participants ($M_{\text{age}} = 19.32$) were randomly assigned to the stress **or** the control condition of the Trier Social Stress Test.
- Participants then answered questions about their ability to delay gratification and their ability to exercise self control.

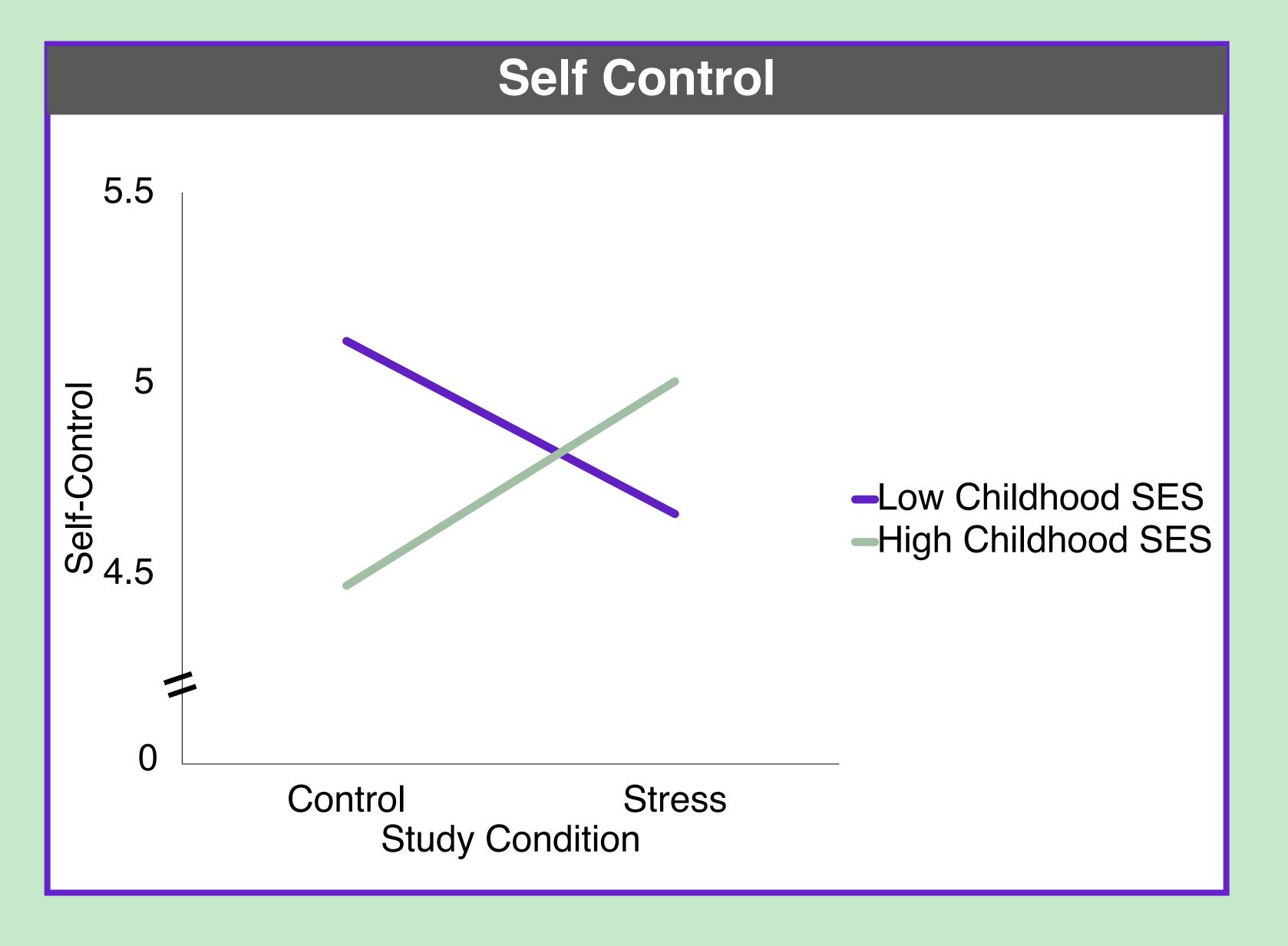




Preliminary Results

Note that the reported results are preliminary.

Data collection is still ongoing, but current results are trending in support of the hypothesis.



Results

- People who grew up in high SES environments did not report a worse ability to delay gratification after being stressed, compared to control.
- For people who grew up in low SES environments, experiencing stress was associated with reduced ability to delay gratification, compared to control.
- People who grew up in low SES environments also reporting lower self control after experiencing stress, compared to control.

Conclusions

- Similar to the physiological present focus observed in previous research, people from low SES environments respond to stress by becoming more psychologically present focused.
- Stress appears to motivate people to prioritize current gratification, potentially at the cost of longterm outcomes.
- Continuing and future research is needed to examine how this psychological present focus may impact the behavior and long-term outcomes of people from low SES backgrounds.

References

Gassen, J., Prokosch, M. L., Eimerbrink, M. J., Proffitt Leyva, R. P., White, J. D., Peterman, J. L., Burgess, A., Cheek, D. J., Kreutzer, A., Nicolas, S. C., Boehm, G. W., & Hill, S. E. (2019). Inflammation predicts decision-making characterized by impulsivity, present focus, and an inability to delay gratification. *Scientific Reports*, *9*(1).

Janusek, L. W., Tell, D., Gaylord-Harden, N., & Mathews, H. L. (2017). Relationship of childhood adversity and neighborhood violence to a proinflammatory phenotype in emerging adult African American men: An epigenetic link. *Brain, Behavior, and Immunity, 60,* 126–135.