

RICE SOCIAL SCIENCES Department of Psychological Sciences

INTRODUCTION

- The COVID-19 pandemic has caused many people around the world to suffer from unprecedented stress and hardships.
- Previous studies have reported that people are suffering from depression, anxiety, and stress symptoms caused by the pandemic (Kar et al., 2021).
- Emotion regulation training shows promise in helping people decrease their stress levels by way of cognitive reappraisal (Denny & Ochsner, 2014).
- Cognitive reappraisal has been shown to decrease negative affect in groups who reported using distancing strategies (Denny et al. 2014; Dicker et al., under review).

COGNITIVE REAPPRAISAL

- Psychological distancing refers to a strategy in which you examine a particular stimulus objectively with an impartial mindset.
- Reinterpretation refers to a strategy in which you tell yourself a story to reframe the meaning of the stimulus.

DISTANCING "An older gentleman is pulling a curtain aside to look out his window towards a yard. The lights in his house are turned off. "



REINTERPRETATION This gentleman is looking outside because his wife is picking up the mai and he is excited about receiving a letter that he is expecting.

RESEARCH OBJECTIVES AND HYPOTHESIS

- To find out if people who experience COVID-19 related stress regulate their emotions when training is received and does it ultimately lower their stress levels.
- To understand the different ways people think about stress, specifically COVID-19 related stress.
- Hypothesis: Distancing will be more efficient than reinterpretation and it will be a better stress regulator.

Effects of a Cognitive Reappraisal Intervention on COVID-19 **Related Stress**

Taria Dearbone

Eva E. Dicker

Department of Psychological Sciences, Rice University

METHODS

Participants

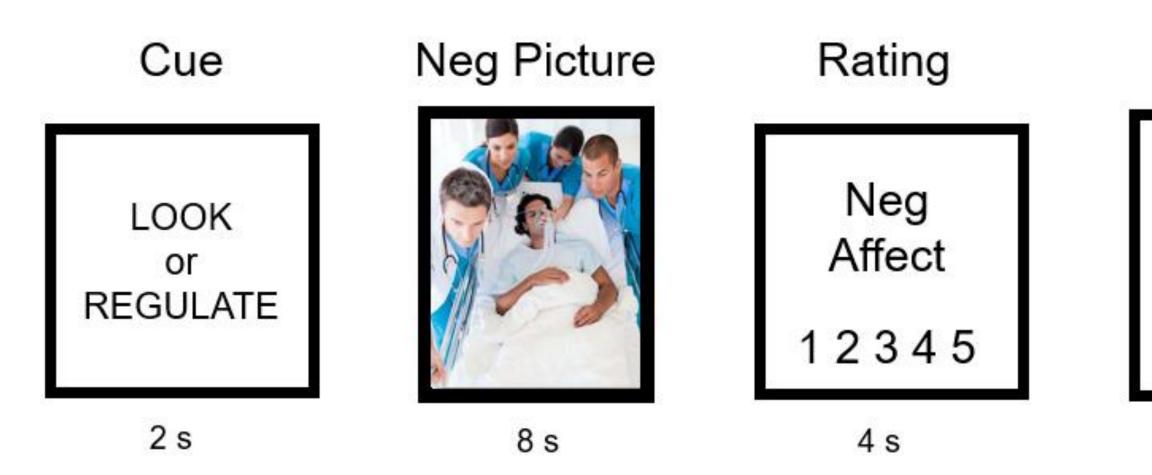
Descriptives												
	Age	Education	Community SES	DERS- SF	PANAS Neg	PANAS Pos	CES- D	PSS	ERQ Cognitive Reappraisal	ERQ Expressive Suppression	STAI- 6	Fear of COVID
Mean	43.4	16.4	5.21	45.6	12.5	17.6	18.4	18.5	29.8	14.4	10.6	19.6
Standard deviation	12.8	4.60	1.72	14.4	3.52	4.01	10.2	7.84	2.86	6.73	4.36	3.30

- All participants were healthy adults over the age of 18 who reported during the initial screener that they suffered from stress due to the COVID-19 pandemic. Participants were recruited on Prolific.
- We are aiming to recruit 80 participants and have recruited 14 so far.
- There were 11 female participants and 3 male participants.
- 12 participants indicated they were fully vaccinated and 2 reported that they were not currently vaccinated.

Procedure

- Consent form and HIPAA
- Participant demographics and Questionnaires (age, gender, socioeconomic status (SES), race/ethnicity, DERS-SF, PANAS NEG, PSS, ERQ, etc.)
- Intervention training (participants were randomly assigned to distancing or reinterpretation group)
- 5 reappraisal tasks and 5 daily-check-ins over a period of 10 days

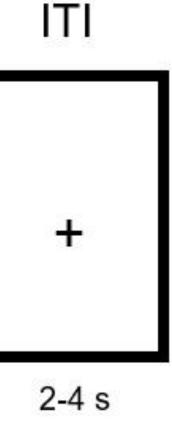
Task Overview



ACKNOWLEDGEMENTS

I would like to thank my mentor Dr. Bryan Denny for allowing me to be a part of the T-SCAN lab. I would like to thank Eva Dicker for letting me take part in the Covid Intervention Study and Mallory Jungles for her support and assistance with this project. I would like to thank Dr. DeLucia for her mentorship and running such a wonderful program. This material is based upon work supported by the National Science Foundation under Grant No. (SMA-1853936 and SMA-1559393)

Bryan T. Denny, PhD.





	Age	Education	Community SES	DERS-SF	PANAS Neg	PANAS Pos	CES-D	PSS	ERQ Cognitive Reappraisal	ERQ Expressive Suppression	STAI-6	Fear of COVID
Age	_											
Education	0.224	_										
Community SES	-0.077	0.581 *	_									
DERS-SF	-0.438	0.141	0.189	_								
PANAS Neg	0.121	0.171	0.032	0.666 **	_							
PANAS Pos	0.153	-0.002	-0.186	-0.320	-0.636*	_						
CES-D	0.144	0.227	-0.163	0.544*	0.856 ***	-0.454	_					
PSS	-0.223	0.390	0.294	0.825 ***	0.736 **	-0.474	0.774 **	_				
ERQ Cognitive Reappraisal	0.053	0.200	-0.053	-0.110	0.027	-0.163	-0.092	-0.074	_			
ERQ Expressive Suppression	-0.303	-0.554 *	-0.566*	0.225	-0.024	0.183	0.109	-0.005	-0.295	_		
STAI-6	0.191	0.389	0.003	0.265	0.645*	-0.530	0.719**	0.630*	0.313	-0.269	_	
Fear of COVID	0.159	-0.344	-0.271	-0.097	0.063	-0.001	-0.062	-0.299	-0.327	-0.004	-0.172	_

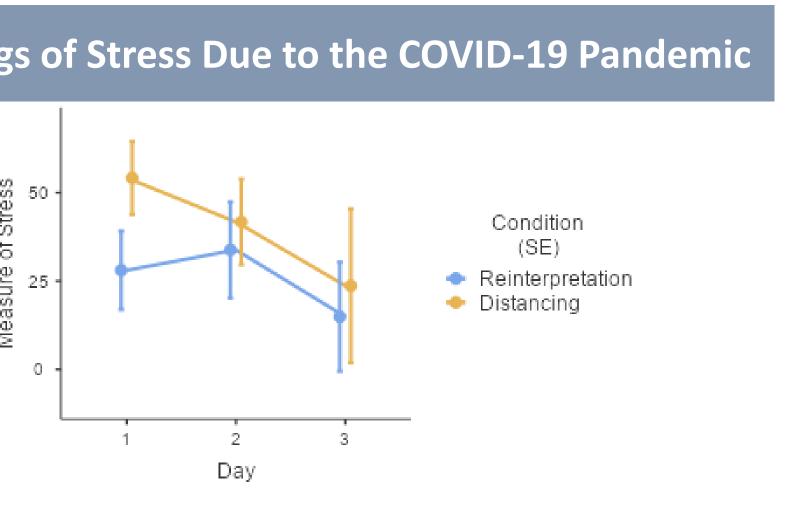
All significant correlations (p > .05) were expected. Analysis of other dependent variables is ongoing.

	Fee	eling
		Measure of Stress
•	Stress was stress at a Interpreta	ll, ar
		F
•	Could positive and intervention of their emotion of their	emi ions ider otion ed to hent
De	enny, B. T., & C cognitive rea https://doi.o	pprais

https://doi.org/10.1037/a0035276



RESULTS



easured on a scale from 0 to 100, 0 meaning no nd 100 meaning extreme stress. ns are limited due to data being preliminary.

UTURE IMPLICATIONS

ly help many people who are highly stressed due ic or social isolation through therapies and

ntify the strategies in which people best regulate ns, we can create more formal interventions that o the individual and situation.

of mobile applications which help the user notion regulation skills.

References

ner, K. N. (2014). Behavioral effects of longitudinal training in isal. Emotion (Washington, D.C.), 14(2), 425–433.

Dicker et. al., under review, Psychological distancing usage uniquely predicts reduced perceived stress during the COVID-19 pandemic Gross, J. J. (1998). The emerging field of emotion regulation: An integrative review.

Review of general psychology, 2(3), 271-299.

Kar, N., Kar, B., & Kar, S. (2021). Stress and coping during COVID-19 pandemic: Result of an online survey. Psychiatry Research, 295, 113598. https://doi.org/10.1016/j.psychres.2020.113598