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Introduction

The COVID-19 pandemic has presented many unique challenges to college students. In addition, social distancing measures may lead to poorer mental health through isolation or reduced social support, which in turn may be linked to greater drinking. Prior studies show that some college students are reducing their drinking during the pandemic whereas others are increasing, and that these differences may be due to different contexts of drinking, mental health factors, and demographics (Acuff et al., 2021; Jackson et al., 2021). Moreover, the pandemic has exacerbated existing racial disparities (Goldmann et al., 2021). We hypothesized that mental health symptoms (stress, anxiety, depression) would mediate the association between pandemic-specific stressors and both current drinking levels and changes in drinking compared to before the pandemic. We also examined in an exploratory manner if race (Black versus White racial identity) moderated either of these associations via moderated mediation.

Method

Participants

- N = 469 college students who reported past-month drinking
- Age 18+ (age Mdn = 21 years, M = 24.30, SD = 7.62)
- 74.8% Cisgender women
- 57.7% White, 26.1% Black

Materials

Pandemic-specific Stressors

- 9 pandemic-specific stressor items created by the researchers Mental Health
- Past-month General Stress
- Psychological vulnerability subscale of the Perceived Stress Scale—Revised (PSS-R; Wickrama et al., 2013); 7 items
- Past-month Anxiety Generalized Anxiety Disorder 7 (GAD-7; Spitzer et al., 2006)
- Past-month Depression
- 10-item version of the Center for Epidemiological Studies
- Depression scale (CESD-10; Anderson et al., 1994) Alcohol Use
 - Past-month drinking using the Daily Drinking Questionnaire (DDQ; Collins et al., 1985)
 - Perceived changes in drinking
 - Quantity: more than usual, less than usual, or about the same amount of alcohol compared to before the pandemic
 - Frequency: *more often*, *less often*, or *about the same* number of drinking days compared to before the pandemic

Procedure

• A cross-sectional online survey conducted Oct-Dec 2020

Race Moderates the Impact of COVID-19 Pandemic Experiences on Self-Reported Changes in College Drinking Abby L. Braitman, Ph.D.,^{1,2} Rachel Ayala Guzman, B.S.,¹ Megan Strowger, M.S.,¹ Jennifer L. Shipley, M.P.H., M.S.,¹

Results

- - 270; 57.7%) students (N = 392) Moderation examined using a product approach
 - Intervals (MCCIs) for categorical outcomes • Sex and age were included as covariates

based on 5,000 replications for continuous outcomes and 95% Monte Carlo Confidence

Mediation: Pandemic Experiences on *Past-Month Drinking*

Taking care of someone Losing job **Financial stressors** Teleworking

Essential worker status

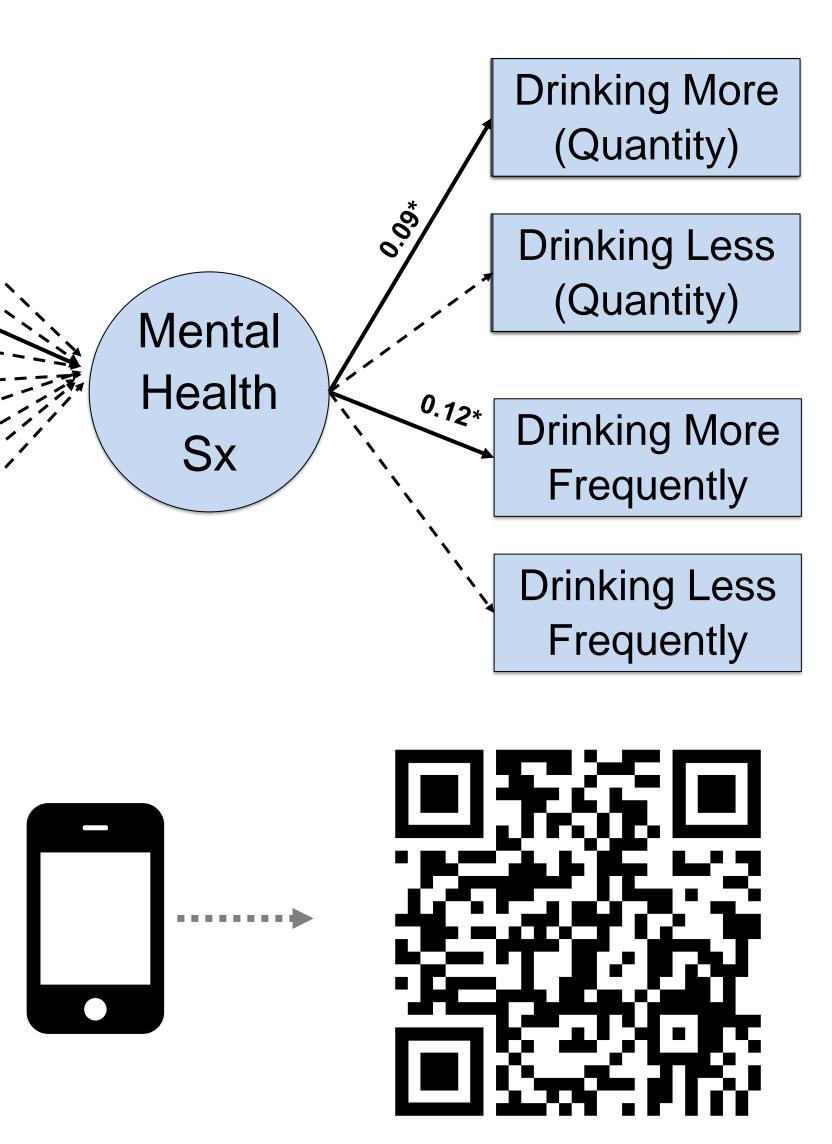
- Social distancing
- Contracting COVID (self)
- COVID (household)
- Changed living situation

Mediation: Pandemic Experiences on *Perceived Changes in Drinking*

Taking care of someone	
Losing job	
Financial stressors	1.81*
Teleworking	
Essential worker status	
Social distancing	
Contracting COVID (self)	
COVID (household)	

Changed living situation

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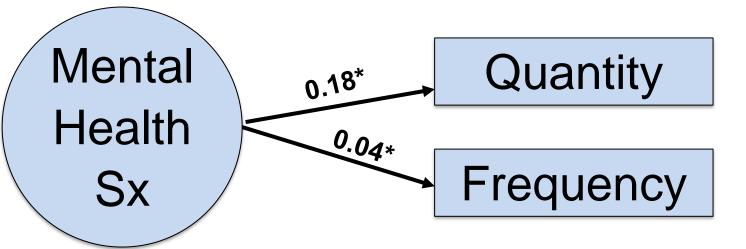
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• Mediation models were conducted with the full sample (N = 469) Moderated mediation models narrowed the sample to only Black (n = 122; 26.1%) or White (n = 122)

• Robust maximum likelihood estimation in Mplus (v8; Muthén & Muthén, 1998-2019) • Indirect effects assessed using 95% bias-corrected bootstrapped confidence intervals (BCCIs)



Predictive Path
<u>a PATHS (PANDEMIC STRES</u>
Taking care of someone ->
Losing job \rightarrow MH
Financial stressors → MH
Teleworking \rightarrow MH
Essential worker status $ ightarrow$
Social distancing \rightarrow MH
Contracting COVID-19 (sel
Contracting COVID-19 (ho
Changed living situation -
Black identity → MH
Black*Taking care of some
Black*Losing job → MH
Black*Financial stressors
Simple: Black financial s
Black*Teleworking \rightarrow MH
Black*Essential worker st
Simple: Black essential
Black*Social distancing $ ightarrow$
Black*Contracting COVID-
Black*Contracting COVID-
Black*Changed living situa
b PATHS (MENTAL HEALTH
Outcome: Increase in free
Mental health
Black identity
Black*Mental health
Outcome: Decrease in fre
Mental health
Black identity
Black*Mental health
Outcome: Increase in qua
Mental health
Black identity
Black*Mental health
Outcome: Decrease in qu
Mental health
Black identity
Black*Mental health

Financial stressors and social distancing were uniquely linked to poorer mental health, which in turn was linked to greater consumption. Moderation examinations revealed that select risk factors for worse mental health symptomology among White students (financial stressors, social distancing) were not significant among Black students. For many White students, these may be the first major, persistent stressors they have encountered. The coping mechanisms used by Black students may promote resilience (Daly et al., 1995; Utsey et al., 2007) against poorer mental health and increased drinking. Essential worker status served as a protective factor for Black students, but not White students (possibly an indicator of job stability and preventing isolation). Findings suggest campus administrators may want to focus efforts on connecting students with available resources for supporting students (e.g., counseling centers and health promotion offices). The current study is limited by the cross-sectional nature of the data collection, which precludes conclusions about temporal ordering or causation, as well as the selfreport nature of drinking. In particular, changes in drinking relies on accurate retrospective reporting.



Table: Moderation of *a* and *b* paths by Race

	В	p	95% CI	OR		
SSORS PREDICTING MENTAL HEALTH SYMPTOMS)						
→ MH	0.87	.309	-0.808, 2.551	-		
	-4.01	.383	-13.026, 5.003	-		
4	2.82**	<.001	1.259, 4.371	-		
	-0.60	.474	-2.233, 1.039	-		
> MH	-0.11	.902	-1.787, 1.576	-		
	1.32*	.003	0.461, 2.171	-		
elf) \rightarrow MH	0.52	.640	-1.664, 2.708	-		
ousehold) \rightarrow MH	-0.84	.489	-3.205, 1.533	-		
\rightarrow MH	1.77*	.047	0.022, 3.525	-		
	7.89*	.015	1.487, 13.883	-		
eone → MH	-0.11	.943	-3.114, 2.893	-		
	1.39	.770	-7.940, 10.719	-		
$s \rightarrow MH$	-3.78*	.007	-6.521, -1.047	-		
stressors \rightarrow MH	-0.97	.398		-		
4	1.80	.313	-1.697, 5.300	-		
status → MH	-4.17*	.007	-7.189, -1.150	-		
worker status → MH	-4.28*	.001	-6.759 <i>,</i> -1.792			
> MH	-2.15	.057	-4.361, 0.065	-		
-19 (self) → MH	3.09	.114	-0.741, 6.919	-		
-19 (household) \rightarrow MH	-0.81	.695	-4.833, 3.224	-		
uation \rightarrow MH	-0.22	.886	-3.167, 2.734	-		
PREDICTING CHANGES IN DRINKING)						
equency						
	0.14**	<.001	0.070, 0.202	1.15		
	0.26	.529	-0.533, 1.076	1.30		
	-0.03	.624	-0.137, 0.082	0.97		
equency						
	-0.01	.829	-0.074, 0.059	0.99		
	-0.10	.812	-0.882, 0.691	0.91		
	0.07	.274	-0.053, 0.187	1.07		
antity						
	0.12*	.001	0.051, 0.191	1.13		
	0.87*	.035	0.061, 1.680	2.39		
	-0.09	.087	-0.118, 0.103	0.91		
uantity						
	0.01	.755	-0.055, 0.076	1.01		
	0.62	.106	-0.133, 1.381	1.87		
	-0.01	.893	-0.118, 0.103	0.99		

Discussion