Associations among state-level physical distancing measures and mental health outcomes among U.S. adults during the early COVID-19 pandemic

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Abstract

Purpose: The purpose of this study was to identify leading sources of stress, describe rates of mental health outcomes, and examine their associations among U.S. adults during the first months of the COVID-19 pandemic.

Method: In a cross-sectional, general population survey conducted from March 18 to April 4, 2020, U.S. adults (n=10,625) were recruited through Qualtrics Panels using quota sampling methods.

Results: Life stressors, probable depression, past-month suicide ideation, and past-month suicide attempts were not elevated among participants subject to state-level stay-at-home orders and/or large gatherings bans. Multiple life stressors were associated with increased rates of probable depression. Past-month suicide ideation was significantly higher among participants reporting ongoing arguments with a partner and serious legal problems. Past-month suicide attempt was significantly higher among participants reporting concerns about a life-threatening illness or injury, but was significantly lower among participants reporting an unexpected bill or expense.

Conclusions: Results failed to support the conclusion that physical distancing measures are correlated with worse mental health outcomes. Concerns about life-threatening illness or injury was uniquely associated with increased risk of suicide attempt.

Key Words: COVID-19; coronavirus; suicide; stress

The first report of a novel coronavirus disease 2019 (COVID-19) in the U.S. came on January 20, 2020. Since then, confirmed cases of COVID-19 have rapidly increased. Efforts to slow the spread of the virus have emphasized physical distancing strategies such as bans on large public events, partial or complete closure of businesses and educational institutions, and stay-at-home orders. These measures could increase exposure to situations and circumstances associated with poor mental health outcomes, including economic and financial strain, reduced social contact, and limited access to medical and mental healthcare services.¹ Supporting these concerns are early reports from China indicating increased rates of anxiety and emotional distress² and recent polls² conducted during the first month of the U.S. pandemic finding that over 40% of U.S. adults reported a negative impact of the pandemic on their mental health, with 19% describing this impact as “major.” In that same poll, respondents who were sheltering-in-place were significantly more likely to report pandemic-related worry or stress had a major negative impact on their mental health than respondents who were not sheltering-in-place (21% vs. 13%), raising concerns that public health efforts such as physical distancing measures could increase rates of suicide mortality through increased mental illness and loneliness.¹ Data specific to mental health outcomes during the COVID-19 pandemic are therefore needed to guide decisions about how to most effectively and efficiently allocate mental health resources.

The primary aims of the present study were to describe rates of life stressor exposure and mental health outcomes among U.S. adults during the early stages of the COVID-19 pandemic, and to examine their associations. To achieve these aims, we analyzed data collected as part of a cross-sectional survey fielded during the first months of the U.S. pandemic.

Methods

Study Design and Setting

We performed an online cross-sectional study focused on recent life stressors, emotional distress, and suicidal thoughts and behaviors using Qualtrics Panels, an online survey platform that maintains a database of several million U.S. residents who have volunteered to participate in periodic survey-based research. Because of their efficiency, online survey panels have been used with increased frequency to obtain general population samples for health-related and social research.⁴⁻⁸ Qualtrics Panels uses quota sampling methods to identify participants meeting each study's eligibility criteria, with a target to recruit a sample that was demographically similar to 2010 U.S. census distributions for age, sex, and race/ethnicity ($\pm 10\%$). Panel members received an email invitation with an embedded hyperlink that redirected the individual to our survey landing page, which contained an informed consent form explaining study purpose, procedures, and risks and benefits. Consent to participate in the study was implied by selecting a box indicating their understanding of this information, which enabled them to proceed to the survey. Participants who completed the survey were financially compensated in the amount that was agreed upon with Qualtrics when they initially agreed to join a panel. The only inclusion criterion was to be 18 years or older; no exclusion criteria were employed. Participants who did not complete the survey in full were excluded from subgroup quotas. Of 65,079 panel members who accessed the survey landing page and reviewed the informed consent form, 10,625 (16.3%) subsequently completed the survey. This survey study was reviewed and approved by the University of Utah Institutional Review Board. Data were collected between March 18, 2020, and April 2, 2020.

Measures

Stressor exposure was assessed with a researcher-developed checklist of 13 potential stressors involving health, relationships, financial strain, legal issues, and work-related concerns,

plus one additional option for “other” unspecified stressors. Participants were directed to check all of the stressors that “caused you to experience more stress than usual during the past month.”

Probable depression was assessed using the 9-item Patient Health Questionnaire depression subscale (PHQ-9),¹⁰ which assesses the frequency of each DSM-defined symptom of major depressive disorder during the past two weeks. The internal consistency of the PHQ-9 in this sample was excellent ($\alpha=0.92$). A total score of 14 or higher, which indicates at least moderately severe depression, was used to identify cases with probable depression.

Suicide ideation and attempts were assessed using the Self-Injurious Thoughts and Behaviors Interview (SITBI).⁹ Suicide ideation was assessed with the following item: “Have you ever had thoughts of killing yourself?” Suicide attempt was assessed with the following item: “Have you ever made an actual attempt to kill yourself in which you had at least some intent to die?” To determine if these thoughts or behaviors had occurred within the preceding month, participants who positively endorsed each item were subsequently asked when they most recently had these thoughts or made a suicide attempt: within the past month, within the past year, or more than a year ago.

Physical distancing measures were assessed using data drawn from the Kaiser Family Foundation’s (KFF) website (<https://www.kff.org/report-section/state-data-and-policy-actions-to-address-coronavirus-sources/>). We extracted the dates on which each U.S. state implemented two physical distancing measures that could influence mental health outcomes through increased loneliness: stay-at-home orders and large gatherings bans. Implementation dates by state were matched to each participant’s state of residence, which was assessed during the survey.

Statistical Analysis

All analyses were conducted using SPSS software, version 25. Data were missing from fewer than 0.4% of participants. To test associations among predictors and criterion variables, we constructed a series of logistic regression models with household income, gender, race, and age were included as covariates in all analyses. For models examining correlates of past-month suicide attempts, we conducted sensitivity analyses wherein we repeated the analysis in the subset of participants reporting past-month suicide ideation, thereby enabling us to determine if predictor variables distinguished participants with a recent suicide attempt from those with recent ideation. In terms of power, our sample size ($N=10,625$) provides 80% power to detect a minimum odds ratio of 1.6, assuming a two-tailed alpha of .05, an outcome rate of 1%, and a binary predictor occurring in 40% of the sample. Assuming a binary predictor occurred in only 10% of the sample, however, there was 80% power to detect a minimum odds ratio of 2.1.

Results

The sample's demographic profile is summarized in Table 1. The percentage of participants self-identifying as white was lower than U.S. census estimates due to a higher than expected percentage of participants self-identifying as "other." Most participants (86.4%) choosing the "other" option also self-identified as Hispanic, Latino, or Spanish origin, suggesting the "other" racial identity and Hispanic, Latino, and Spanish origin ethnicity options overlapped to a large degree. The mean PHQ-9 score was 7.3 ($SD=6.7$), reflecting a mild level of depressive symptoms during the previous two weeks. 19.5% of participants had probable depression, 4.6% reported past-month suicide ideation, and 1.2% reported past-month suicide attempts. The majority of participants were subject to at least one physical distancing measure (Table 2).

Rates of life stressors and associations with physical distancing measures

Figure 1 shows the percentage of participants reporting each type of life stressor within the past month. The most common stressors within the preceding month included unexpected bills or expenses (28.2%), the death of a close friend or family member (22.2%), and a life-threatening illness or injury for a close friend or family member (17.3%). Rates of life stressors were unrelated to physical distancing measures, with one exception (see Table 3): participants subject to large gatherings bans were significantly more likely to report increased stress related to being disciplined or punished at work (OR=1.56, 95% CI=1.17-2.07, $p=.002$).

Rates poor mental health outcomes and associations with physical distancing measures

Rates of poor mental health outcomes were generally unrelated to physical distancing measures, with two exceptions (see Table 4): participants subject to stay-at-home orders were significantly less likely to report probable depression (OR=0.75, 95% CI=0.57-0.99, $p=.044$) and participants with past-month suicide ideation who were subject to large gatherings bans were significantly less likely to report a suicide attempt in the prior month (OR=0.39, 95% CI=0.17-0.88, $p=.024$).

Association of past-month stressors with suicide ideation and suicide attempt

The likelihood of probable depression was significantly increased among participants endorsing life-threatening illness or injury of friends or family (OR=1.81, 95% CI=1.59-2.05, $p<.001$), separation or divorce from a spouse or partner (OR=1.81, 95% CI=1.51-2.17, $p<.001$), serious arguments with a spouse or partner (OR=1.83, 95% CI=1.59-2.09, $p<.001$), infidelity by a spouse or partner (OR=1.43, 95% CI=1.19-1.71, $p<.001$), serious betrayal by someone else (OR=1.52, 95% CI=1.32-1.76, $p<.001$), an unexpected bill or expense (OR=1.15, 95% CI=1.03-1.29, $p=.018$), and other serious legal problems (OR=1.88, 95% CI=1.49-2.36, $p<.001$). The likelihood of past-month suicide ideation was significantly increased among participants

endorsing serious ongoing arguments with a spouse or partner (OR=1.46, 95% CI=1.16-1.83, $p=.001$) and other serious legal problems (OR=1.85, 95% CI=1.31-2.62, $p<.001$). The likelihood of past-month suicide attempt was significantly increased among those endorsing concerns about a life-threatening illness or injury of a close friend or family member (OR=2.26, 95% CI=1.48-3.46, $p<.001$) but was decreased among those endorsing an unexpected bill or expense that cannot be easily afforded (OR=0.41, 95% CI=0.24-0.70, $p=.001$). In the subset of participants reporting past-month suicide ideation ($n=489$), only life-threatening illness or injury of a close friend or family member was associated with significantly increased likelihood of past-month suicide attempt (OR=3.87, 95% CI=2.14-6.99, $p<.001$). Results are summarized in Table 5.

Discussion

The rapid spread of COVID-19 globally has contributed to increased anxiety and a range of social consequences that are known to be associated with increased risk for poor mental health outcomes and suicide mortality: economic and financial strain, social isolation, decreased social activities and engagement, and reduced access to healthcare services.^{2,3} The present study entailed a national cross-sectional survey conducted during the months of the COVID-19 pandemic in the U.S. Our results indicate the leading sources of stress among respondents were financial strain, the death of a very close friend or family member, and the life-threatening illness or injury of a very close friend or family member. Because our survey was created and prepared for distribution before the first confirmed case of COVID-19 in the U.S., we did not design items that could more precisely measure pandemic-specific sources of stress and variables. We therefore recommend caution when interpreting these findings, as we cannot know for sure if the financial strain reported by participants was directly related to the pandemic (e.g., reduced work hours, layoffs or furloughs, increased medical expenses). Similarly, we are unable to determine if

participants' reported anxieties about the death, illness, and/or injury of loved ones are specifically attributable to COVID-19. Additional research designed to specifically assess these relationships is needed to draw these conclusions with greater certainty.

Our results failed to support our hypothesis that physical distancing measures were associated with increased life stress, depression, and suicide risk in our sample. On the contrary, several findings were more supportive of the *opposite* conclusion, which is that mental health outcomes were somewhat better among participants subject to physical distancing measures. Here again, we recommend caution when drawing conclusions based on these findings until they can be replicated in other studies, however, especially when considering the relatively narrow range of mental health outcomes assessed in our survey: general distress, depression, and suicidal thoughts and behaviors. It is possible that other, unassessed mental health outcomes (e.g., anxiety, sleep disturbance) would yield different patterns of results. Furthermore, because our survey was fielded during the first few months of the U.S. pandemic, it is possible that the deleterious effects of physical distancing on mental health outcomes had not yet emerged. To this end, our results may serve as a useful benchmark or reference point for future studies that will be conducted later in the pandemic.

In the present study, multiple life stressors were associated with increased risk for probable depression, but a relatively smaller subset of these stressors were associated with increased risk for suicide ideation and attempts. Of note, stress related to a life-threatening illness or injury of a close friend or family member was the only life stressor that significantly distinguished participants who had attempted suicide in the past month from those who had thought about suicide. Although these patterns generally align with previous risk factor research,^{10,11} we again emphasize that caution is warranted in drawing the conclusion that

respondents were thinking specifically of COVID-19 when endorsing concerns about a “life-threatening illness.” Additional research that specifically asks about worry, anxiety, and/or other emotional distress specific to friends and families who have been diagnosed with COVID-19 are needed to confirm this possible interpretation and conclusion.

Our results revealed an unexpected finding involving financial strain and suicide risk. Specifically, in contrast to previous research finding increased risk for suicidal behaviors among those experiencing financial strain,^{11, 13} participants in the present study who reported feeling stressed about an unexpected bill or expense that could not be easily afforded were significantly *less* likely to have made a suicide attempt during the previous month. One potential explanation for this finding is that the risk of a suicide attempt initially declines in the immediate aftermath of acute financial strain, but increases over time as the financial strain persists. Another possibility is that the typically positive association of financial strain with suicidal behavior depends in part (or in whole) on the social context. From this perspective, the COVID-19 pandemic may function as a moderator variable that affects the strength (and direction) of the relationship between financial strain and suicide attempts. A third possibility is that the deleterious effect of financial strain was offset by news of the U.S. economic stimulus package, which was passed on March 28, 2020, approximately halfway through the data collection period. A final possibility is that this finding is spurious. Conclusions based on this specific finding should therefore be made cautiously until it can be replicated or further examined in future studies.

In addition to the limitations mentioned above, our study was also limited by our cross-sectional design and absence of pre-pandemic data, which limits our ability to determine if participants experienced the onset of the life stressors assessed in our study before or after the

first confirmed COVID-19 case in the U.S. Despite the study's limitations, our findings suggest that increased stress stemming from health-related concerns may be associated with increased risk for suicidal behaviors during the pandemic. Additional research, especially those utilizing probabilistic sampling methods that can clarify the generalizability of the present results, is needed to confirm these initial findings and to further assess mental health outcomes within the context of the COVID-19 pandemic. Such research could inform optimal resource allocation during the current pandemic and improve national and global readiness for future public health crises.

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Table 1.
Sample demographics

Variable	(N=10,625)
Age, mean (SD), y	45.2 (17.0)
Gender, n (%)	
Male	5181 (48.8)
Female	5389 (50.7)
Transgender	32 (0.3)
Other	23 (0.2)
Race, n (%)	
White	6577 (61.9)
Black	1307 (12.3)
Asian	703 (6.6)
American Indian	398 (3.7)
Pacific Islander	89 (0.8)
Other	1551 (14.6)
Hispanic ethnicity, n (%)	
Yes	3715 (35.0)
No	6910 (65.0)
Annual household income, n (%)	
< \$25,000	1994 (18.8)
\$25,000-34,999	1145 (10.8)
\$35,000-49,999	1111 (10.5)
\$50,000-74,999	2086 (19.6)
\$75,000-99,999	1421 (13.4)
\$100,000-149,999	1675 (15.8)
\$150,000-199,999	642 (6.0)
> \$200,000	551 (5.2)

Table 2.

Number of participants who completed the survey when statewide stay-at-home orders and large gatherings bans were or were not in effect

		Large Gatherings Ban	
Stay-at-Home Order	Total	Not In Effect	In Effect
Not in Effect	4268 (40.2%)	1962 (18.5%)	2306 (21.7%)
In Effect	6344 (59.8%)	529 (5.0%)	5815 (54.8%)
Total	10,612 (100.0)	2491 (23.5%)	8121 (76.5%)

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Table 3.

Percentage of participants endorsing each life stressor within the past month, by state-level physical distancing measures in effect at the time of survey completion

	None	SAH Only	LGB Only	Both		Stay-at-Home Order				Large Gatherings Ban				Both		
Past-month stressor	%	%	%	%		OR	(95% CI)	p		OR	(95% CI)	p		OR	(95% CI)	p
Life-threatening illness/injury of friend/family	17.8	16.1	16.2	17.6		0.94	(0.73-1.23)	.658		0.91	(0.77-1.07)	.257		1.15	(0.85-1.54)	.363
Death of close friend or family	22.5	20.2	23.5	21.7		0.93	(0.74-1.19)	.579		1.09	(0.94-1.26)	.256		0.97	(0.74-1.27)	.817
Separation or divorce from spouse/partner	8.0	6.0	6.8	6.5		0.85	(0.57-1.27)	.435		0.87	(0.69-1.10)	.250		1.11	(0.71-1.74)	.634
Serious arguments with spouse/partner	16.0	11.9	12.6	13.4		0.84	(0.63-1.13)	.258		0.86	(0.72-1.02)	.086		1.24	(0.89-1.72)	.207
Spouse/partner infidelity	9.0	5.3	7.3	6.9		0.75	(0.49-1.13)	.168		0.93	(0.74-1.17)	.541		1.24	(0.79-1.96)	.353
Serious betrayal by someone else	15.7	10.4	11.8	12.4		0.86	(0.63-1.17)	.329		0.87	(0.72-1.04)	.122		1.21	(0.85-1.71)	.285
Unexpected bill or expense	28.3	29.9	28.1	28.0		1.23	(0.99-1.53)	.057		1.11	(0.97-1.27)	.149		0.82	(0.64-1.04)	.103
Did not get promoted	6.2	5.1	5.6	5.7		0.95	(0.62-1.47)	.815		0.98	(0.76-1.27)	.885		1.01	(0.62-1.63)	.985
Lower score than expected on assignment	9.3	6.4	6.7	7.4		1.08	(0.73-1.60)	.711		0.93	(0.74-1.17)	.525		0.95	(0.61-1.48)	.835
Disciplined or punished at work	4.2	4.7	5.8	5.4		1.34	(0.84-2.14)	.215		1.56	(1.17-2.07)	.002		0.64	(0.38-1.06)	.083
Trouble with police	3.9	2.3	4.3	3.6		0.74	(0.40-1.37)	.336		1.22	(0.89-1.66)	.210		1.13	(0.58-2.21)	.722
Spent time in jail or prison	3.4	1.9	2.7	2.8		0.69	(0.35-1.36)	.282		0.85	(0.59-1.21)	.358		1.53	(0.73-3.23)	.261
Other serious legal problem	4.0	3.9	3.4	3.9		1.04	(0.62-1.77)	.874		1.11	(0.81-1.52)	.517		0.93	(0.52-1.68)	.819

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Table 4.

Percentage of participants with probable depression, past-month suicide ideation, and past-month suicide attempt, by state-level physical distancing measures in effect at the time of survey completion

	None	SAH Only	LGB Only	Both		Stay-at-Home Order				Large Gatherings Ban				Both		
Mental health outcome	%	%	%	%		OR	(95% CI)	p		OR	(95% CI)	p		OR	(95% CI)	p
Probable depression	23.4	14.4	18.6	19.2		0.75	(0.57-0.99)	.044		0.91	(0.78-1.06)	.211		1.32	(0.98-1.79)	.071
Past-month suicide ideation	5.9	3.0	4.2	4.5		0.70	(0.41-1.21)	.201		0.86	(0.64-1.14)	.279		1.50	(0.83-2.71)	.180
Past-month suicide attempt	1.5	0.4	1.1	1.2		0.35	(0.08-1.49)	.155		0.85	(0.49-1.45)	.547		2.70	(0.59-12.30)	.201
Among those with past-month ideation	22.6	6.3	11.5	15.3		0.29	(0.03-2.49)	.258		0.39	(0.17-0.88)	.024		4.59	(0.47-44.75)	.190

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Table 5.

Association of past-month stressors with probable depression, past-month suicide ideation, and past-month suicide attempt

								Past-Month Suicide Attempt							
	Probable Depression				Past-Month Suicide Ideation			Full Sample			Among those with Past-Month Ideation				
Past-month stressors	OR	(95% CI)	p		OR	(95% CI)	p		OR	(95% CI)	p		OR	(95% CI)	p
Life-threatening illness/injury of friend/family	1.81	(1.59-2.05)	<.001		0.96	(0.75-1.22)	.740		2.26	(1.48-3.46)	<.001		3.87	(2.14-6.99)	<.001
Death of close friend or family	1.12	(0.99-1.27)	.073		0.88	(0.70-1.11)	.278		0.89	(0.58-1.39)	.616		1.07	(0.58-1.99)	.830
Separation or divorce from spouse/partner	1.81	(1.51-2.17)	<.001		1.36	(1.00-1.84)	.049		1.45	(0.91-2.33)	.120		1.18	(0.57-2.44)	.659
Serious arguments with spouse/partner	1.83	(1.59-2.09)	<.001		1.46	(1.16-1.83)	.001		1.64	(1.08-2.48)	.020		1.06	(0.56-2.03)	.855
Spouse/partner infidelity	1.43	(1.19-1.71)	<.001		0.95	(0.70-1.29)	.725		1.83	(1.10-3.04)	.020		1.57	(0.74-3.35)	.244
Serious betrayal by someone else	1.52	(1.32-1.76)	<.001		1.25	(0.97-1.60)	.086		1.18	(0.74-1.89)	.495		0.91	(0.45-1.84)	.801
Unexpected bill or expense	1.15	(1.03-1.29)	.018		1.05	(0.84-1.32)	.657		0.41	(0.24-0.70)	.001		0.38	(0.17-0.85)	.019
Did not get promoted	1.12	(0.91-1.38)	.273		0.96	(0.67-1.39)	.843		0.93	(0.49-1.78)	.825		1.16	(0.46-2.94)	.750
Lower score than expected on assignment	0.85	(0.71-1.02)	.086		1.27	(0.95-1.72)	.112		1.30	(0.76-2.22)	.335		1.19	(0.56-2.50)	.656
Disciplined or punished at work	1.07	(0.86-1.32)	.555		1.28	(0.89-1.83)	.183		0.87	(0.47-1.60)	.648		0.56	(0.18-1.820)	.337
Trouble with police	1.17	(0.91-1.52)	.220		0.63	(0.39-1.01)	.053		1.45	(0.72-2.94)	.297		1.08	(0.38-3.09)	.888
Spent time in jail or prison	1.01	(0.75-1.35)	.959		1.15	(0.70-1.91)	.577		1.07	(0.50-2.27)	.865		1.46	(0.52-4.07)	.474
Other serious legal problem	1.88	(1.49-2.36)	<.001		1.85	(1.31-2.62)	<.001		1.29	(0.65-2.55)	.462		0.78	(0.35-1.77)	.559

Figure 1

Percentage of sample endorsing each of 13 possible stressors causing more than usual stress within the past month