Discrimination and Stress Among Asian Refugee Populations During the COVID-19 Pandemic: Evidence from Bhutanese and Burmese Refugees in the USA

Mengxi Zhang, Ashok Gurung, Philip Anglewicz, Kalpana Baniya, Katherine Yun

Abstract
Objectives To measure COVID-19 pandemic-related discrimination and stress among Bhutanese and Burmese refugees in the USA and to identify characteristics associated with these two measures.

Methods From 5/15–6/1/2020, Bhutanese and Burmese refugee community leaders were invited to complete an anonymous, online survey and shared the link with other community members who were English-proficient, ≥18 years old, and currently living in the USA. We identified characteristics associated with pandemic-related discrimination and stress applying ordinal logistic regression models.

Results Among 218 refugees from 23 states, nearly one third of participants reported experiencing at least one type of discrimination, and more than two-thirds experienced at least one type of pandemic-related stress. Having had COVID-19, having a family member with COVID-19, and being an essential worker were associated with discrimination. Discrimination, financial crisis, and female gender were associated with stress.

Conclusions Reducing pandemic-related discrimination should remain a priority, as should the promotion of social support and coping strategies. Noting that this is a nonrepresentative sample, we recommend that larger national studies tracking experiences with pandemic-related discrimination and stress include Asian American subgroups with limited English proficiency.

Keywords COVID-19 pandemic · Bhutanese and Burmese refugees · Asian Americans · Racism · Discrimination · Mental health

Introduction

During the COVID-19 pandemic caused by novel coronavirus SARS-CoV-2, fear, rumors, and misconceptions about the novel coronavirus have placed Asian Americans in the spotlight of blame and harassment [1–5]. Instead of preventing discrimination and xenophobia, government officials repeatedly labeled the virus the “Wuhan coronavirus” or the “China virus,” potentially accelerating COVID-19 related racial attacks on Asian Americans. In March 2020, the Federal Bureau of Investigation issued a warning about a potential surge of hate crimes against Asian Americans [6]. In April 2020, the Center for Public Integrity reported that 32% of Americans have witnessed someone blaming Asian people for the pandemic [7]. From March 19 through August 5, 2020, over 2,500 instances of anti-Asian discrimination...
refugee communities are also among the largest refugee communities resettled in the USA between 2000 to 2015, and they have among the highest foreign-born shares of any Asian-origin communities in the USA (Bhutanese 92%, Burmese 85%) [20]. Both communities have relatively high poverty rates (Bhutanese 33%; Burmese 35%; Asian American 12%; US population 15%). They also have lower rates of English proficiency (Bhutanese 27%; Burmese 28%; Asian American 70%) and are less likely to have a bachelor’s degree relative to the general US population (Bhutanese 9%; Burmese 24%; Asian American 51%; US population 30%) [20, 21]. The majority of Bhutanese refugees living in the USA are Nepali-speaking Lhotshampa who were forced to flee Bhutan due to political repression and ethnic violence culminating with the mass expulsion of Lhotshampa Bhutanese in the 1990s. After nearly two decades living in refugee camps in Nepal, this predominantly agrarian and multigenerational community was allowed to resettle in the USA beginning in 2007 [21]. Similarly, most Burmese migrants to the USA since 2006 are political refugees. Many come from rural regions where minority ethnic groups, such as the Karen and Chin, experienced recurrent repression and violence during armed conflicts between the national Burmese Army and ethnic opposition groups. More than a million people from Burma (now called Myanmar) have been displaced to neighboring countries, including Bangladesh, India, Malaysia, and Thailand. Most Burmese refugees in the USA lived in these areas prior to resettlement [20, 21].

For these reasons, we hypothesize that Bhutanese and Burmese refugees are at high risk of pandemic-related discrimination and stress. However, to date, there has been limited data describing the experiences of these refugee populations during the pandemic. In this study, we measure the distribution of pandemic-related discrimination and stress, as well as identify predictors of these two measures among Bhutanese and Burmese refugees in the USA.

Material and Methods

Data Collection

We conducted a cross-sectional study using a snowball sample. We limited participants to English-proficient individuals, age ≥ 18 years, and currently living in the USA from 5/15/20 through 6/1/20, we emailed or messaged an anonymous, online survey link to 19 bilingual Bhutanese and Burmese refugee community leaders identified through the study team’s existing professional networks. These individuals were predominantly prior participants in community health leadership trainings or leaders of refugee-led community organizations. They were asked to complete the survey and share the link with peers who met inclusion criteria. To decrease potential selection bias, the survey invitation asked participants to share
their experiences during the pandemic and did not specifically invite participants who had experienced discrimination. This study was approved by Ball State University’s Human Research Protection Office (IRB#: 1605425).

Measures

Outcome

To assess pandemic-related discrimination, participants were asked to answer three questions adapted from the Understanding America Study1, which asked if they had experienced the following at any time during the COVID-19 pandemic: (1) felt threatened or harassed from others as they think you might have the coronavirus, (2) felt others were afraid of you because they think might have the coronavirus, and (3) been treated with less respect than others because people think you might have the coronavirus. Responses were coded as binary variables with 1 (Yes) or 0 (No). We then generated an ordinal variable to measure the number of types of discrimination experienced by adding the outcomes of these three measures of discrimination. The ordinal discrimination measure was used for bivariate and multivariate analyses.

We measured pandemic-related stress by asking participants to rate the following stress experiences during the COVID-19 pandemic: (1) nervous about current circumstances, (2) worried about my health, (3) worried about my family’s health, and (4) stressed about leaving the house. Response options ranged from 1 = “does not apply at all” to 5 = “strongly apply.” We first coded these experiences as binary variables with 1 (strongly apply) or 0 (does not apply at all, somewhat does not apply, neither applies nor does not apply, or somewhat applies). We then generated an ordinal variable to measure the amount of stress experienced by summing these newly coded binary measures of stress. The ordinal stress measure was used for bivariate and multivariate analyses.

Covariates

Covariates included in the adjusted models for pandemic-related discrimination were having had COVID-19, having a family member who had COVID-19, being an essential worker during the pandemic, gender, age, education, and years spent in the USA, as these covariates are known to be associated with discrimination and stress from previous studies [2, 23–26]. COVID-19 infection was measured as a binary, self-reported outcome, using Yes/No responses to the following question, “Are you or have you been infected with the novel coronavirus?” Having a family member with COVID-19 was measured as a binary variable of whether anyone in the household is or has been infected with the novel coronavirus. Individuals working for pay at a job or business in the 7 days prior to survey completion were categorized as essential workers if their occupation corresponded to one described as providing “COVID-19 Essential Services” under Massachusetts Governor Baker’s March 23, 2020 Emergency Order, updated on March 31 and April 28 [27]. Those whose occupation corresponded to essential services but who did not work in the past 7 days due to COVID-19 infection were also categorized as essential workers. Age was categorized as less than 31, between 31 and 40, and more than 40 considering the age distribution of our participants. Education was measured as secondary degree (junior high or senior high school), associate degree (community college, junior college, or technical school), and bachelor degree. Year spent in the USA was a continuous variable and represents an approximate measure of acculturation.

The model for pandemic-related stress included these covariates, pandemic-related financial crisis, and the ordinal measure for pandemic-related discrimination. Financial crisis was included because it is a common cause of emotional distress. Financial crisis was a binary variable capturing if the participants’ family had experienced financial crisis during the coronavirus pandemic. Since the relationship between discrimination and stress has been established in other contexts, pandemic-related discrimination was also included here [28, 29].

Statistical Model

We first examined the distribution of each outcome and covariate. We then conducted bivariate analysis to measure the association between participants’ characteristics and pandemic-related discrimination and stress. We applied Fisher’s exact tests and one-way analysis of variance (ANOVA) tests to measure differences in pandemic-related discrimination and stress across categorical variables and continuous variables, respectively. Finally, we identified characteristics associated with pandemic-related discrimination and stress, applying adjusted ordinal logistic regression models. We tested proportional odds assumption of ordered logistic regression models to measure if the coefficients are equal across categories. Multicollinearity was tested and not found. Less than 5% of all measures were missing. Due to the small percentage, we considered all missing values to be missing at random. The significance level was set at 0.05 with a two-sided tail. Analysis was conducted using Stata/SE15.1.

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1 The Understanding America Study is a representative panel of households of approximately 9,000 respondents residing in the USA conducted by the University of Southern California [22].
Table 1 shows the characteristics of the study participants. In total, 218 Bhutanese and Burmese refugees from 23 states \(^2\) completed the survey. The majority were Bhutanese (86.2%), and just over half were male (60.1%). Approximately half were more than 30 years old (52.4%), received a bachelor’s degree or higher (50.0%), and had an annual household income less than $50,000 (52.3%). The average time participants spent in the USA was 9.99 years. Nearly half of the participants were essential workers (41.7%). Nonetheless, pandemic-related job loss (46.3%) and family financial crisis (36.7%) were common. Nearly 7% of participants reported having been infected with the coronavirus. The same amount of the participants reported having family members infected with the coronavirus.

Table 2 displays experiences with pandemic-related discrimination. Nearly one third of the participants (31.3%) reported experiencing at least one type of pandemic-related discrimination. A total of 15.1, 9.6, and 5.5% of the participants reported experiencing one, two, or three types of discrimination, respectively. Most often, participants reported feeling that other people were afraid of them (27.5%). Additionally, 12.8% of respondents reported feeling threatened or harassed, and 10.6% reported feeling as if they had “been treated with less respect than others as people think you might have the novel coronavirus.”

Table 2 also displays pandemic-related stress. More than two-thirds of participants (68.8%) experienced at least one type of pandemic-related stress. A total of 25.2, 17.4, 12.4, and 13.8% of the participants reported experience one, two, three, or four types of stress, respectively. Specifically, nearly one third of participants strongly endorsed feeling nervous about the current circumstances (33.9%), feeling worried about their health (28.0%), or feeling stress about leaving home (29.8%). Over half of participants strongly endorsed feeling worried about their family’s health (60.6%).

### Results

Table 1 shows the characteristics of the study participants. In total, 218 Bhutanese and Burmese refugees from 23 states\(^2\) completed the survey. The majority were Bhutanese (86.2%), and just over half were male (60.1%). Approximately half were more than 30 years old (52.4%), received a bachelor’s degree or higher (50.0%), and had an annual household income less than $50,000 (52.3%). The average time participants spent in the USA was 9.99 years. Nearly half of the participants were essential workers (41.7%). Nonetheless, pandemic-related job loss (46.3%) and family financial crisis (36.7%) were common. Nearly 7% of participants reported having been infected with the coronavirus. The same amount of the participants reported having family members infected with the coronavirus.

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Table 3 displays the bivariate analysis of participants’ characteristics and experiences with discrimination. Those who had COVID-19 ($P$ value < 0.001) and those family members had COVID-19 ($P$ value < 0.001) were more likely to experience more types of discrimination. The multivariate ordinal logistic regression model for pandemic-related discrimination is also shown in Table 3. History of COVID-19 (odds ratio [OR] 3.91; 95% confidence interval [CI] 1.11, 13.86), having a family member with COVID-19 (OR 3.72; 95% CI 1.08, 12.77), and being an essential worker (OR 2.03; 95% CI 1.04, 3.97) increased participants’ odds of experiencing more types of discrimination.

Table 4 shows the bivariate analysis of participants’ characteristics and pandemic-related stress. Those who experienced more types of discrimination ($P$ value < 0.001), those who experienced financial crisis during the pandemic ($P$ value = 0.013), and women ($P$ value = 0.040) were more likely to experience more types of pandemic-related stress. Table 4 also displays the multivariate ordinal logistic regression model for pandemic-related stress. The results indicate a strong association between the amount of pandemic-related stress and the amount of pandemic-related discrimination (one type of discrimination: OR 2.70, 95% CI 1.31, 5.58; two types of discriminations:

| Table 3. Predictors of COVID-19 pandemic-related discrimination among Bhutanese and Burmese refugee participants in the USA in 2020, applying bivariate analysis and adjusted ordinal logistic regression models$^a$ |
|---|---|---|---|---|
| **Amount of discrimination experienced$^b$ ($N = 218$) | Bivariate analysis | Ordinal logistic regression model |
| | No. (%) | No. (%) | No. (%) | No. (%) | $P$ value | OR (95% CI) |
| **COVID-19 infection** | | | | | | |
| No | 144 (97.30) | 30 (90.91) | 16 (80.00) | 8 (66.67) | 0.000$^e$ | Reference |
| Yes | 4 (2.70) | 3 (9.09) | 4 (20.00) | 4 (33.33) | 3.91$^*$ (1.11, 13.86) |
| **Family member infected** | | | | | | |
| No | 149 (98.03) | 26 (78.79) | 19 (90.48) | 9 (75.00) | 0.000$^e$ | Reference |
| Yes | 3 (1.97) | 7 (21.21) | 2 (9.52) | 3 (25.00) | 3.72$^*$ (1.08, 12.77) |
| **Essential worker** | | | | | | |
| No | 97 (63.82) | 20 (60.61) | 9 (42.86) | 4 (33.33) | 0.074 | Reference |
| Yes | 55 (36.18) | 13 (39.39) | 12 (57.14) | 8 (66.67) | 2.03$^*$ (1.04, 3.97) |
| **Gender** | | | | | | |
| Male | 94 (61.84) | 21 (63.64) | 10 (47.62) | 6 (50.00) | 0.512$^e$ | Reference |
| Female | 58 (31.16) | 12 (36.36) | 11 (52.38) | 6 (50.00) | 1.09 (0.53, 2.24) |
| **Age** | | | | | | |
| ≤30 | 70 (46.05) | 18 (54.55) | 12 (57.14) | 6 (50.00) | 0.228$^e$ | Reference |
| 31-40 | 45 (29.61) | 4 (12.12) | 7 (33.33) | 4 (33.33) | 0.39$^*$ (0.16, 0.92) |
| ≥41 | 37 (24.34) | 11 (33.33) | 2 (9.52) | 2 (16.67) | 0.53 (0.22, 1.25) |
| **Education** | | | | | | |
| Secondary degree | 39 (25.66) | 9 (28.13) | 7 (33.33) | 3 (25.00) | 0.781$^e$ | Reference |
| Associate degree | 34 (22.37) | 7 (21.88) | 7 (33.33) | 2 (16.67) | 1.40 (0.61, 3.57) |
| Bachelor or higher | 79 (51.97) | 16 (50.00) | 7 (33.33) | 7 (33.33) | 1.40 (0.59, 3.28) |
| **Years spent in the USA, mean (SD)** | 10.09 (0.28) | 9.39 (0.49) | 10.62 (0.54) | 11.00 (1.04) | 0.399$^d$ | 1.08 (0.97, 1.20) |

*OR odds ratio, 95% CI 95% confidence interval

*a We applied the model command to measure the proportional odds assumption of ordinal logistic regression models. The $P$ value of this test is equal to 0.150, indicating the model does not violate the proportional odds assumption

*b This is an ordinal variable describing the number of different types of discrimination reported by each survey participant (0, 1, 2, 3)

*c Fisher’s exact test

*d ANOVA test

*e $P < 0.05$

**$P < 0.01$

***$P < 0.001$
Table 4. Predictors of COVID-19 pandemic-related stress among Bhutanese and Burmese refugee participants in the USA in 2020, applying bivariate analysis and adjusted ordinal logistic regression models.

| Amount of stress experienced<sup>b</sup> (N = 218) | Bivariate analysis | Ordinal logistic regression model |
|------------------------------------------|-------------------|-----------------------------------|
|                                           | 0  No. (%) | 1  No. (%) | 2  No. (%) | 3  No. (%) | 4  No. (%) | P value | OR (95% CI) |
| Amount of discrimination experienced      |           |           |           |           |           |         |             |
| None                                     | 62 (91.18) | 36 (65.45) | 25 (65.79) | 14 (51.85) | 15 (50.00) | 0.000<sup>c</sup> | Reference |
| One                                      | 4 (5.88)   | 10 (18.18) | 7 (18.42)  | 7 (25.93)  | 5 (16.67)  | 2.70*** (1.31, 5.58) |
| Two                                      | 1 (1.47)   | 9 (16.36)  | 4 (10.53)  | 3 (11.11)  | 4 (13.33)  | 2.48*** (1.10, 5.61) |
| Three                                    | 1 (1.47)   | 0 (0)      | 2 (5.26)   | 3 (11.11)  | 6 (20.00)  | 11.90*** (3.52, 40.30) |
| COVID-19 infection                       |           |           |           |           |           |         |             |
| No                                       | 65 (98.48) | 50 (94.34) | 33 (86.84) | 25 (92.59) | 25 (86.21) | 0.067<sup>c</sup> | Reference |
| Yes                                      | 1 (1.52)   | 3 (5.66)   | 5 (13.16)  | 2 (7.41)   | 4 (13.79)  | 1.14 (0.35, 3.74) |
| Family member infected                   |           |           |           |           |           |         |             |
| No                                       | 67 (98.53) | 52 (94.55) | 34 (89.47) | 24 (88.89) | 26 (86.67) | 0.075<sup>c</sup> | Reference |
| Yes                                      | 1 (1.47)   | 3 (5.45)   | 4 (10.53)  | 3 (11.11)  | 4 (13.33)  | 1.30 (0.39, 4.34) |
| Essential worker                         |           |           |           |           |           |         |             |
| No                                       | 41 (60.29) | 33 (60.00) | 25 (65.79) | 18 (66.67) | 13 (43.33) | 0.363<sup>c</sup> | Reference |
| Yes                                      | 27 (39.71) | 22 (40.00) | 13 (34.21) | 9 (33.33)  | 17 (56.67) | 1.08 (0.63, 1.88) |
| Financial crisis                         |           |           |           |           |           |         |             |
| No                                       | 50 (74.63) | 39 (70.91) | 18 (48.65) | 15 (55.56) | 14 (46.67) | 0.013<sup>c</sup> | Reference |
| Yes                                      | 17 (25.37) | 16 (29.09) | 19 (51.35) | 12 (44.44) | 16 (53.33) | 2.17** (1.26, 3.73) |
| Gender                                   |           |           |           |           |           |         |             |
| Male                                     | 47 (69.12) | 38 (69.09) | 20 (52.63) | 12 (44.44) | 14 (47.67) | 0.040<sup>c</sup> | Reference |
| Female                                   | 21 (30.88) | 17 (30.91) | 18 (47.37) | 15 (55.45) | 16 (52.33) | 1.97* (1.06, 3.66) |
| Age                                      |           |           |           |           |           |         |             |
| ≤30                                      | 31 (45.59) | 23 (41.82) | 20 (52.63) | 17 (62.96) | 15 (50.00) | 0.448<sup>c</sup> | Reference |
| 31–40                                    | 16 (23.53) | 20 (36.36) | 10 (26.32) | 4 (14.81)  | 10 (33.33) | 1.03 (0.54, 1.98) |
| ≥41                                      | 21 (30.88) | 21 (30.88) | 8 (21.05)  | 6 (22.22)  | 5 (16.67)  | 0.98 (0.48, 2.01) |
| Education                                |           |           |           |           |           |         |             |
| Secondary degree                         | 21 (30.88) | 10 (18.18) | 12 (31.58) | 9 (33.33)  | 6 (20.69)  | 0.063<sup>c</sup> | Reference |
| Associate degree                         | 8 (11.76)  | 12 (21.82) | 12 (31.58) | 6 (22.22)  | 12 (41.38) | 2.34* (1.14, 4.33) |
| Bachelor or higher                       | 39 (57.35) | 33 (60.00) | 14 (36.84) | 12 (44.44) | 11 (37.93) | 1.34 (0.67, 2.68) |
| Years spent in the USA, mean (SD)        | 10.43 (0.54) | 10.31 (0.37) | 9.55 (0.38) | 9.70 (0.36) | 9.93 (0.58) | 0.661<sup>d</sup> | 0.99 (0.91, 1.08) |

OR, Odds Ratio; 95% CI, 95% Confidence Interval

<sup>a</sup>We applied the model command to measure the proportional odds assumption of ordinal logistic regression models. The p value of this test is equal to 0.604, indicating the model does not violate the proportional odds assumption

<sup>b</sup>This is an ordinal variable describing the number of different types of stress reported by each survey participant (0, 1, 2, 3, 4)

<sup>c</sup>Fisher’s exact test

<sup>d</sup>ANOVA test

<sup>*P < 0.05</sup>

<sup>**P < 0.01</sup>

<sup>***P < 0.001</sup>

OR 2.48, 95% CI 1.10, 5.61; three types of discriminations: OR 11.90, 95% CI 3.52, 40.30. Experiencing financial crisis (OR 2.17, 95% CI 1.26, 3.73) and being a female (OR 1.97, 95% CI 1.06, 3.66) also increased the odds of reporting more types of pandemic-related stress. A similar relationship was observed for participants with associate degree compared with those with secondary degrees (OR 2.34, 95% CI 1.14, 4.33).
Discussion

This study describes characteristics associated with pandemic-related discrimination and stress in two Asian refugee communities. Notably, the Understanding America Study reported that 0.9, 5.9, and 4.0% of Asian Americans reported feeling threatened or harassed by others, feeling others be afraid of them, or feeling they were treated with less respect than others as others thought they might have the coronavirus in the prior 7 days based on the data on May 23, 2020 [22]. While our survey did not use the same 7-day time frame, participants reported markedly high rates of discrimination. Our results are consistent with another online survey of Asian Americans during the pandemic [10].

We identity risk factors for experiences with discrimination in these communities, including having had COVID-19, having a family member with COVID-19, and being an essential worker. In addition to experiencing COVID-19-related discrimination from others, those and their family members are infected tend to blame themselves or their family members for contracting the diseases, which makes it harder for them to fight COVID-19 related stigma [30]. In other studies, essential and frontline workers have reported high rates of social isolation, stigma, and discrimination due to their heightened risk of COVID-19 and others’ fear of infection [31, 32]. In our study, around 40% of the participants were essential workers. In the USA, a large number of refugees work in the healthcare settings, food supply chain functions, grocery stores, supermarkets, restaurants, and food services establishments, which may expose them to a high risk of pandemic-related discrimination [16, 30]. However, there has been a lack of education, legislation, and policy to address this discrimination.

Experiencing pandemic-related discrimination is associated with participants’ experience of pandemic-related stress. While our cross-sectional study does not establish a causal relationship between pandemic-related discrimination and stress, this finding echoes previous studies showing that discrimination can lead to negative and long-term consequences for mental health [3, 10, 15, 33–35]. While societal strategies for decreasing discrimination are paramount, other researchers have also found that social support and coping strategies can buffer the immediate negative emotional impact of discrimination on Asian Americans [35].

Our study also suggests that experiencing financial crisis during the pandemic increases the likelihood of experiencing higher amounts of pandemic-related stress among Bhutanese and Burmese refugees. Between two predominantly low-income populations, this is likely to be explained by the impact of financial crisis on individuals’ access to basic necessities, such as food, shelter, or healthcare [35–37].

Women were more likely to experience higher amounts of pandemic-related stress than men. This result corresponds with recent findings of high levels of stress and fear of COVID-19 among women [38–40]. This gender difference may be explained by the disproportionate responsibility that many women face in taking care of children and other family members during the pandemic, as well as the disproportionate impact of pandemic-related job losses on women [41].

The study has limitations. Chief among them is reliance on a small, non-representative sample of English-proficient respondents, especially given that English proficiency is reported by just 27 and 28% of the overall Bhutanese and Burmese populations in the USA, respectively [20]. Additionally, levels of annual household income and educational attainment among our respondents were higher compared with others in their communities. For this reason, results may not be generalizable to the entirety of the Bhutanese and Burmese refugee communities in the USA. We also speculate that people with higher levels of concern about COVID-19 would have been more likely than people with lower levels of concern to complete the survey, so our results may overestimate the prevalence of COVID-19 related stress in these communities. The distribution of COVID-19 cases may also be an underestimate considering the marked shortage of SARS-CoV-2 tests in the USA when data were collected in May 2020 [42]. The prevalence of essential workers may also be underestimated, as it was defined by participants’ working status in the week prior to the survey. Those who worked during the pandemic but not during the required timeframe due to none COVID-19 infection-related reasons were coded as non-essential workers. Finally, some of the measures of discrimination and stress have not been validated. We encourage other researchers to replicate our study with a representative sample and novel measures of key variables.

Conclusions

Reducing pandemic-related discrimination should remain a priority as we work to strengthen our public health response to the pandemic. Public officials should avoid terms such as “China Flu” and consistently condemn racism [1, 43]. Public messaging should remain science-based. Because workplace incidents are potential civil rights violations and have been reported by multiple prior studies, we suggest that employers consider proactive and preventive actions [10, 44]. Programs that enhance social support and teach coping skills may also buffer the immediate psychological impact of discrimination [10, 35]. More importantly, policies, regulations, and education are needed to address pandemic-related stigma and discrimination. Finally, we recommend that larger national studies tracking experiences with discrimination and stress during
the pandemic include Asian American subgroups with limited English proficiency [26, 45, 46].

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Availability of Data and Material Available upon request.

Code Availability Available upon request.

Declarations

Conflicts of Interest The authors declare that they have no conflict of interest.

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