
Vinh-Long Tran-Chi, Thanh-Thao Ly, Huyen-Trang Luu-Thi, Van-Son Huynh, My-Tien Nguyen-Thi

Purpose: The fourth wave of the COVID-19 pandemic has dramatically influenced many aspects of individuals’ lives, putting the general population’s mental health at high risk, especially university students in Vietnam. The present study aims to investigate the relationship between current living status and COVID-19 stress and test whether COVID-19 stress mediates the effect of self-concealment on help-seeking attitudes among university students.

Patients and Methods: A sample of 478 university students was recruited online to complete the survey. Parametric tests, correlation, regression, and simple mediation analyses were used to analyze the data.

Results: Our results show that students living alone experience more COVID-19 stress levels than those living with family or friends. Additionally, there is a significant positive association between self-concealment and professional help-seeking attitudes that is partially mediated by COVID-19 stress. Individuals who tend to conceal personal information have high COVID-19 stress levels, leading to positive professional help-seeking attitudes.

Conclusion: University administrators, social workers, counselors, clinicians, and therapists must consider students living alone as prioritized vulnerable groups for early mental health interventions. Clinicians should be aware of self-concealment and professional help-seeking attitudes that could influence psychological treatment.

Keywords: COVID-19 stress, current living status, professional help-seeking attitudes, self-concealment, university students

Introduction
The 2019 outbreak of Coronavirus Disease (COVID-19) has subsequently attracted worldwide attention, leading The World Health Organization (WHO) to confirm the COVID-19 as a public health emergency and a global health concern on January 30, 2020. During the outbreak, the new variant of the COVID-19 called Delta has been more aggressive and transmissible than previously circulating strains. The number of cases in this spread of the new variant has been increasing rapidly, affecting countries worldwide. Specifically, Vietnam is among the most vulnerable countries in Southeast Asia that has been the hardest hit in this wave leading to more confirmed cases. From April 27 to August 8, 2021, there have been 206,490 infected cases, including 3215 deaths in Vietnam. Facing this alarming situation, the Vietnam government has issued emergency policies across the country with
many measures to prevent and control, which imposed more substantial restrictions, including shutting down schools, staying at home and only going outside for buying foods or emergency circumstances. Besides, the pandemic outbreak has affected the population’s health in psychology, society, and neuroscience, specifically, university students who are a special social group with active lifestyles based on contacts, relationships, gatherings, and university activities. This pandemic has remarkably changed university students’ lifestyles, including disruptions to their academic, relationships, and social life. These disruptions could cause boredom, worry, stress, and anxiety among those students. Therefore, when students have psychological problems, professional psychological help can draw an appropriate solution for them during the pandemic.

COVID-19 Stress and Professional Help-Seeking Attitudes

The new variant of COVID-19 raises worries regarding the disease’s speeding and mode of transmission in the broad population. Many people have experienced mental health issues like anger, fear, stress, anxiety and depressive symptoms due to the COVID-19 pandemic. Many participants rated the psychological effect of the outbreak as moderate to severe stress and anxiety. Stress is described as any negative emotional experience accompanied by biochemical, physiological, cognitive, and behavioural responses. The COVID-19 stress is personal feelings and thoughts about many stressors that people are currently experiencing due to the pandemic.

College students have been considered a vulnerable group of mental health problems because of active life habits based on physical activities, relationships, contacts and gatherings. University students are at risk for developing certain mental health disorders that have been reported to be particularly high. Recent reports found that stress and anxiety levels have been increased due to the COVID-19 outbreak among university students. A group of university students have faced many barriers in the new reality of the rapid COVID-19, including abrupt disruption of daily life and routines, loss of social connections, income and temporary unemployment, the change in housing arrangements, and new concerns about their family’s health. Additionally, Dean et al reported that younger people might lack the necessary skills to deal with the COVID-19 pandemic. Therefore, students should be referred to seek professional help early in the progression of these mental health problems.

According to Fischer and Turner, help-seeking attitude is a multidimensional construct that reflects: (i) recognition of the need for psychotherapeutic help, (ii) tolerance for the stigma related to seeking mental health treatment, (iii) willingness to express information about one’s problems, and (iv) belief in mental health practitioners. The previous findings on how stress and anxiety affect professional help-seeking attitudes have been conducted for a long time. Some researchers reported the negative relationship between stress, anxiety and help-seeking attitudes, meaning that individuals with higher stress levels had less professional help-seeking attitudes. On the contrary, Chang showed that individuals with higher anxiety levels were more likely to seek professional help and anxiety was a predictor of professional help-seeking attitudes.

Self-Concealment and Professional Help-Seeking Attitudes

Self-concealment is a behavioural tendency in which individuals keep personal information about distress, embarrassment and negative hidden from others. People with self-concealment have uncomfortable thoughts,
feelings and information about themselves that they avoid expressing to others. Hence, self-concealment involves a conscious and active process in hiding negatively and intimately personal thoughts, feelings, actions, and events. Self-concealment reflects processes of (i) possessing negatively evaluated secrets, (ii) hiding secrets from others, and (iii) avoiding or being apprehensive about self-disclosure. Additionally, self-concealment contributed to poorer physical and psychological health. Self-concealment is a substantial factor in lowering the need for help-seeking behaviour.

The association between self-concealment and professional help-seeking attitudes in university students has been thoroughly studied and well documented for a long time. The previous findings found that self-concealment related negatively to professional help-seeking attitudes. People with high levels of self-concealment reported less professional help-seeking attitudes. Self-concealment correlated negatively with help seeking attitudes and self-concealment significantly predicted professional help-seeking attitudes among college students and among 163 African American college students. Many prior findings showed that self-concealment was negatively associated with professional help-seeking attitudes among 122 Asian Americans and 235 European American undergraduate students, and 785 undergraduate students in Turkey.

Living Status and COVID-19 Stress
University students are one of the most affected groups by COVID-19 lockdown, especially, students who lived alone were less likely to be around family, unable to share their worries with others and had fewer opportunities for outdoor activities during the pandemic. These issues led university students living alone to suffer more mental health problems such as fear, stress, and anxiety than others living with family or friends.

Jacob et al found a positive association between living alone and common mental health disorders. Previous research has indicated that those who live alone have a higher prevalence of psychological problems. People living alone had higher anxiety levels than those living with family and friends, than those living with two or more people. A sample of 210 youths aged between 17 and 25 indicated that current living status was associated with anxiety and those living without family had higher levels of stress, anxiety and depression than those living with family. Other findings showed that students who lived alone had a higher prevalence of depressive and anxiety symptoms than those who lived with family or friends.

The fourth wave of the COVID-19 pandemic has impacted stronger and faster than ever before in Vietnam, leading to more COVID-19 confirmed cases and deaths. More substantial restrictions in COVID-19 such as shutting down schools, staying at home and only going outside for buying foods or emergency circumstances were given to prevent the spreading of the infection. The sudden change has affected people’s mental health, particularly university students who have been considered a vulnerable population, increasing their risk of mental health problems. When these students are dealing with psychological distress such as stress and anxiety, seeking psychological help is a good way to cope. However, to the best of our knowledge, lack of scientific research has systematically examined the impact of COVID-19 stress on attitudes towards seeking professional psychological help, especially regarding university students. Therefore, the purpose of our research is to investigate the relationship between current living status and COVID-19 stress and test whether COVID-19 stress mediates the effect of self-concealment on help-seeking attitudes among university students in Vietnam. Thus, some questions were provided in this study as follow:

- What are the relationships between professional help-seeking attitudes and COVID-19 stress and self-concealment?
- What factors influence professional help-seeking attitudes in university students?
- Does COVID-19 stress operate as a mediator between self-concealment and professional help-seeking attitudes?

Materials and Methods

Research Hypothesis
This study used a cross-sectional study to investigate predictors of professional help-seeking attitudes among university students in the COVID-19 pandemic context.

Hypothesis 1: Living alone would be more likely to experience COVID-19 stress than living with family or friends among students.

Hypothesis 2: Self-concealment would be negatively correlated with professional help-seeking attitudes.

Hypothesis 3: COVID-19 stress would be positively correlated with professional help-seeking attitudes.
Hypothesis 4: Self-concealment and COVID-19 stress would be predictors of professional help-seeking attitudes.


Procedure
At the peak of the most dangerous time outbreak in Vietnam, our study selected the data based on an online survey through Google form. The data collection occurred from July 26 to August 3, 2021. Informed consent was provided and anonymity confidentiality terms were explained before participants conducted the survey. For the questionnaires, the participants were informed of the research aims and asked to provide socio-demographic information, including gender, school, current living status (ie, living alone), university major, education level. Participants were entirely voluntary without remuneration and could withdraw at any time. The survey was approximately 10–15 minutes to complete. When participants needed any clarification at any point in the survey, they would be advised to contact the research team via email or phone provided.

Items of three scales in this study including Attitudes Towards Seeking Professional Psychological Help Short Form (ATSPPH – SF),40 Self-Concealment Scale (SCS)25 and COVID-19 Stress Scale (CSS)41 were forward and back-translated method. In the first step, the English version was translated into Vietnamese by a Vietnamese native speaker who is fluent in English, then the Vietnamese version was sent and back-translated into English by a professional translator (native speaker of English and fluent in Vietnamese). Finally, the research team evaluated for accuracy and discrepancies in the content between the two versions (English-translated version and Vietnamese back-translated version) and the original version.

Participants
A total of 491 questionnaires were distributed, of which 478 were valid. Participants were university students from six universities in Vietnam who volunteered to participate in this study. The sample consisted of 389 females (81.4%) and 89 males (18.6%), most of the participants were living with family (n = 414; 86.6%), followed by living with friends (n = 34; 7.1%), and living alone (n = 30; 6.3%). All the distribution of participants was shown in Table 1.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Category</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
<td>89 (18.6)</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>389 (81.4)</td>
</tr>
<tr>
<td>Education level</td>
<td>Freshman</td>
<td>322 (67.4)</td>
</tr>
<tr>
<td></td>
<td>Sophomore</td>
<td>52 (10.9)</td>
</tr>
<tr>
<td></td>
<td>Junior</td>
<td>58 (12.1)</td>
</tr>
<tr>
<td></td>
<td>Senior</td>
<td>46 (9.6)</td>
</tr>
<tr>
<td>Current living status</td>
<td>Living alone</td>
<td>30 (6.3)</td>
</tr>
<tr>
<td></td>
<td>Living with family</td>
<td>414 (86.6)</td>
</tr>
<tr>
<td></td>
<td>Living with friends</td>
<td>34 (7.1)</td>
</tr>
<tr>
<td>Disability status</td>
<td>Disabled</td>
<td>9 (1.9)</td>
</tr>
<tr>
<td></td>
<td>Non-disabled</td>
<td>469 (98.1)</td>
</tr>
</tbody>
</table>

Ethical Aspects
The present study adhered to the Declaration of Helsinki regarding research on human participants. The study was approved by the Ethic Committee of the Department of Science and Technology - Ho Chi Minh City University of Education (under the Vietnamese MoET) with number NV2021.19.02.DH on June 1, 2021.

Measurement
Attitude Toward Seeking Professional Psychological Help – Short Form
Attitude Toward Seeking Professional Psychological Help - Short Form (ATSPPH-SF) was developed by Fischer and Farina40 based on the 29-item Attitude Toward Seeking Professional Psychological Help (ATSPPH) by Fischer and Turner.16 The 10-item ATSPPH-SF evaluates students’ attitude toward seeking professional psychological help. The measurement used a 5-point Likert scale, participants were asked to rate their level from one to five (1 = “strongly disagree”, 2 = “disagree”, 3 = “neutral”, 4 = “agree”, 5 = “strongly agree”). Fischer and Farina40 found an internal consistency of α = 0.84 and test-retest reliability of 0.80 in the ATSPPH-SF.

Cronbach’s α for the total scale was 0.837 in this study. The confirmatory factor analysis (CFA) indicated that the measurement was an adequate fit, CMIN/df = 3.402 (p<0.001); Goodness-of-fit index (GFI) = 0.965; Comparative fit index (CFI) = 0.962; Tucker - Lewis Index (TLI) = 0.931; Root
mean square error of approximation (RMSEA) = 0.071 and 90% Confidence Interval (CI: 0.055, 0.088).

Self-Concealment Scale
Self-Concealment Scale (SCS) with 10 items developed by Larson and Chastain to access to (i) tendency to conceal personal information; (ii) tendency not to reveal personal distressing secrets or negative thoughts about oneself and (iii) worried about disclosing personal information. Each item was responded to on a 5-point Likert scale ranging from one to five (1 = “strongly disagree”, 2 = “disagree”, 3 = “neutral”, 4 = “agree”, 5 = “strongly agree”). Larson and Chastain reported Cronbach’s α = 0.83 and test-retest reliability of 0.81 (4 weeks) in a validation sample.

Cronbach’s α was 0.901 for the total scale in this study. The CFA indicated that the measurement was a good fit, CMIN/df = 3.850 (p<0.001); GFI = 0.947; CFI = 0.957; TLI = 0.945; RMSEA = 0.076 and 90% CI (0.061, 0.089).

Covid-19 Stress Scale
Covid-19 Stress Scale (CSS) was developed by Taylor et al to assess people’s psychological responses toward the COVID-19 pandemic. The original of the CSS consisted of 36 items, measuring five factors: (i) COVID danger and contamination; (ii) COVID socio-economics consequences; (iii) COVID xenophobia; (iv) COVID traumatic stress; (v) COVID compulsive checking. Cronbach’s alpha coefficients for each scale were > 0.8 in Canadian and U.S samples 45. In this study, three factors of the CSS were COVID danger and contamination, COVID socio-economic consequences, and COVID traumatic stress used for considering COVID-related stressors among university students. During the lockdown period in Vietnam, many difficulties and issues were concerned such as lack of mental health services, lack of staple food, virus infection concerns, family’s health preoccupations, etc. These problems affect physical health and mental health leading to pressure, worry, and difficulty in sleeping. Three factors were suitable for the current Vietnam circumstance that most university students encountered and noticed.

The measurement in the current study consisted of 24 items to measure three factors of the CSS: (i) COVID danger and contamination, (ii) COVID socio-economics consequences and (iii) COVID traumatic stress. Each item was rated on a 5-point Likert scale ranging from one to five (1 = “never”, 2 = “rarely”, 3 = “sometimes”, 4 = “often”, 5 = “almost always”).

Cronbach’s α was 0.959 for the total scale in this study. The coefficient alpha for the COVID danger and contamination, COVID socio-economic consequences, COVID traumatic stress was 0.938, 0.934, and 0.93, respectively. In the present study, the CFA showed that the measurement was an adequate fit, CMIN/df = 2.540 (p<0.001); GFI = 0.908; CFI = 0.966; TLI = 0.960; RMSEA = 0.056 and 90% CI (0.049, 0.061).

Research Analysis
The Social Sciences Statistics Program (SPSS) version 22.0 was used for data processing. Descriptive statistics was used to describe participants’ characteristics. The one-way analysis of variance (ANOVA) was used to test whether there were any statistically significant differences between participants’ current living status and the COVID-19 stress. Pearson correlation was conducted to establish the relationship between professional help-seeking attitudes and self-concealment, COVID-19 stress, gender. Multiple linear regression analysis was used to examine the relationship between the predictor variables (self-concealment, COVID stress, gender) and the dependent variable (professional help-seeking attitudes). The bootstrapping method was conducted using the PROCESS macro to examine the mediation hypothesis. In the current study, we used a bootstrap procedure to examine the statistical significance of the hypothesized indirect effect. To conduct the bootstrap procedure, we selected 5000 bootstrap samples and bias-corrected 95% confidence intervals.

Results
A one-way ANOVA was performed to test a significant difference between the three current living statuses in terms of COVID-19 stress, as shown in Table 2. Levene’s test of equality of error variances was used to

<table>
<thead>
<tr>
<th>Table 2 One-Way ANOVA Results for the Difference of the Current Living Status According to COVID-19 Stress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum of Squares</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Between Groups</td>
</tr>
<tr>
<td>Within Groups</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>
test the assumption ANOVA that the variances for each variable are equal across the groups. The outcome of Levene’s Test for Homogeneity of Variances showed that the variances between the three groups were equal: F(2, 475) = 0.291, p > 0.05. Therefore, the assumption of homogeneity of variances was satisfied.

There was a statistically significant effect of current living status on COVID-19 stress at the p < 0.05 level for the three conditions [F(2, 475) = 4.400, p = 0.013]. Post-hoc comparisons using the Tukey HSD test indicated that there was a statistically significant difference between living alone (M = 2.985; SD = 0.907) and living with friends (M = 2.333; SD = 0.905). Living with parents (M = 2.603; SD = 0.877) was not significantly different from living alone and living with friends. The findings showed that students who lived alone experienced higher levels of COVID-19 stress than others. Therefore, the results suggested that the first hypothesis should be accepted.

Table 3 shows how ATSPPH correlated with self-concealment, COVID-19 stress and gender. Results of Pearson correlation indicated that there were statistically significant and moderately positive correlation between ATSPPH and self-concealment (r(476) = 0.412, p < 0.01), a weakly positive correlation between ATSPPH and COVID-19 stress (r(476) = 0.279, p < 0.01) and gender (r(476) = 0.114, p < 0.05). The findings showed that an increase in self-concealment would lead to higher ATSPPH and an increase in COVID-19 stress would lead to higher ATSPPH in students. Therefore, the results suggested that the second hypothesis should be rejected and the third hypothesis should be accepted.

Multiple regression analysis was conducted to check for multicollinearity and homoscedasticity before examining the direct and indirect that influenced of self-concealment, COVID-19 stress and gender. The findings showed that the total effect (c) of self-concealment on ATSPPH was positive and significant, b = 0.309, SE = 0.031, 95% CI [0.248,0.371]. The direct effect (c′) of self-concealment on ATSPPH adjusting for COVID-19 stress was positive and significant, b = 0.269, SE = 0.034, 95% CI [0.203,0.335]. The indirect effect was statistically significant, b = 0.041, SE = 0.017, 95% CI [0.006,0.073]. These results suggested that COVID-19 stress mediated the effect of self-concealment on help-seeking attitudes. Therefore, the results suggested that the fifth hypothesis should be accepted.

<table>
<thead>
<tr>
<th>Variable</th>
<th>ATSPPH</th>
<th>SCS</th>
<th>CSS</th>
<th>GENDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATSPPH</td>
<td>−</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCS</td>
<td>0.412**</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSS</td>
<td>0.279**</td>
<td>0.379**</td>
<td>−</td>
<td></td>
</tr>
<tr>
<td>GENDER</td>
<td>0.114*</td>
<td>0.068</td>
<td>0.086</td>
<td>−</td>
</tr>
</tbody>
</table>

Notes: **Correlation is significant at the 0.01 level (2-tailed). *Correlation is significant at the 0.05 level (2-tailed).
Abbreviations: ATSPPH, attitudes toward seeking professional psychological help; SCS, self-concealment scale; CSS, COVID-19 stress scale.
Discussion

The main purposes of the present research were (i) to investigate the relationship between current living status and COVID-19 stress and (ii) to test whether COVID-19 stress mediates the effect of self-concealment on help-seeking attitudes among university students in Vietnam.

Our study highlighted a few significant findings. First, students living alone were more likely to experience COVID-19 stress than others. Second, there were correlations between COVID-19 stress, self-concealment and professional help-seeking attitudes. Third, COVID-19 stress and self-concealment factors could significantly predict the professional help-seeking attitudes in students. Fourth, COVID-19 stress mediated the effect of self-concealment on professional help-seeking attitudes.

This research shows there is a difference between current living status and COVID-19 stress. This finding supports our hypothesis that students who have been living alone are more likely to experience COVID-19 stress than students living with family or friends. This finding is in line with the study of Deng et al.\(^{39}\) who lived alone had a higher prevalence of psychological problems than students who lived with family or friends. Many reasons have been proposed to explain why people who live alone are more stressed than those living with family or friends. One of the most vulnerable groups of people affected was those who lived alone or were left alone during the lockdown.\(^{49}\)

Individuals who live alone could face issues about isolation, lack of social connections, support, and neighborhood engagement.\(^{50,51}\) It was reported that individuals with social isolation,\(^{52}\) lack of social support\(^{53-56}\) could lead to mental health problems such as stress, anxiety, and depression. These findings are consistent with our results that people who live alone facing isolation and lack of social support could have symptoms of stress and anxiety.

The result reveals that COVID-19 stress is significantly and positively associated with and predicted help-seeking attitudes. This finding supports our hypothesis that individuals with high levels of stress are more likely to have professional help-seeking attitudes. Chen et al.\(^{57}\) found that 50.97% of respondents reported they needed psychological counseling in the COVID-19 outbreak. Roy et al.\(^{58}\) reported that more than 80% of respondents needed professional help to deal with emotional and psychological problems during the COVID-19 context. Few previous studies have explained why students seek professional help for common psychological distress in the Vietnam context. According to Jubert,\(^{59}\) healthcare systems have been involved in education, and Vietnamese culture has become much more accepting of seeking professional help for psychological problems in recent years. A sample of 350 Vietnamese undergraduate students, a high proportion of participants were aware of common mental health problems such as stress, anxiety, and depression, and they

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>t</th>
<th>p</th>
<th>F</th>
<th>R²</th>
<th>Adjusted R²</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
<td>Beta</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 (Constant)</td>
<td>1.864</td>
<td>0.166</td>
<td></td>
<td>11.235</td>
<td>0.000</td>
<td>37.873</td>
<td>0.193</td>
</tr>
<tr>
<td>SCS</td>
<td>0.266</td>
<td>0.034</td>
<td>0.355</td>
<td>7.947</td>
<td>0.000</td>
<td></td>
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<tr>
<td>CSS</td>
<td>0.107</td>
<td>0.035</td>
<td>0.138</td>
<td>3.082</td>
<td>0.002</td>
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<tr>
<td>GENDER</td>
<td>0.138</td>
<td>0.073</td>
<td>0.078</td>
<td>1.883</td>
<td>0.060</td>
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</table>

**Table 4** Multiple Regression Results of Professional Help-Seeking Attitudes

<table>
<thead>
<tr>
<th>Effects</th>
<th>Point Estimate</th>
<th>SE</th>
<th>t</th>
<th>p</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total effect</td>
<td>0.309</td>
<td>0.031</td>
<td>9.866</td>
<td>0.000***</td>
<td>0.248 - 0.371</td>
</tr>
<tr>
<td>Direct effect</td>
<td>0.269</td>
<td>0.034</td>
<td>8.004</td>
<td>0.000***</td>
<td>0.203 - 0.335</td>
</tr>
<tr>
<td>Indirect effect</td>
<td>0.041</td>
<td>0.017</td>
<td>0.006 - 0.073</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 5** Total, Direct and Indirect Effects of Self-Concealment on Professional Help-Seeking Attitudes Through COVID-19 Stress

**Note:** ***p < 0.001.
rated a counselor or psychologist as a helpful source of mental health intervention. This indicated that undergraduate students believed counselors and psychologists could help people with common mental health problems. These findings support that a school-based mental health literacy education provides knowledge about the nature and causes of common mental health issues and more information about available appropriate mental health resources. A similar finding of Kamimura et al showed that increasing college students’ knowledge about mental illness would help promote them to seek professional help.

Our data analysis reveals that self-concealment is significantly and positively associated with professional help-seeking attitudes. This result reflects those students with high levels of self-concealment report more professional help-seeking attitudes. This is a surprising finding, as it is contrary to what we know from previous studies which have shown a significant negative correlation between self-concealment and professional help-seeking attitudes. Another finding indicates that self-concealment is a predictor of help-seeking attitudes in university students. A high level of self-hiding, unwillingness to expose psychological issues and a belief that revealing inner thoughts to others is unsafe are factors contributing to unfavourable help-seeking attitudes. As reported by previous studies, self-revelation is often inevitable when seeking professional mental health services.

Another finding suggests that COVID-19 stress is a potential mediator of the association between self-concealment and professional help-seeking attitudes among university students. COVID-19 stress partially mediated the relationship between self-concealment and help-seeking attitudes. The partial mediation indicates that COVID-19 stress plays a dual role, acting both directly and indirectly in help-seeking attitudes. Students who have tendencies to withhold personal information from others are more likely to experience COVID-19 stress, which leads to more positive help-seeking attitudes. Therefore, our findings contribute empirical evidence to the help-seeking attitudes literature, showing that the influence of self-concealment on help-seeking attitudes is mediated by COVID-19 stress. Previous models have not examined the mediation role of COVID-19 stress in the relationship between self-concealment and help-seeking attitudes, and this understanding will help develop more targeted interventions.

**Limitations**

There are several limitations to the study. First, we use convenience sampling to recruit university students, which can reduce the generalizability of the studies to a representative Vietnamese population. We encourage future researchers to examine if the current model refers to other students, which will provide a better understanding of the relationship between self-concealment and help-seeking attitudes. Second, the study has not included actual help-seeking intentions or behaviors to utilize professional psychological services, limiting this findings’ scope. Future studies should examine the role of stress levels and self-concealment on help-seeking intentions and behaviors besides help-seeking attitudes. Third, the current study has not investigated other factors that may predict help-seeking attitudes of Vietnamese university students (eg, self-stigma; previous help-seeking experiences; and socio-economic status), future research endeavours might investigate these factors.

**Implications**

Despite some limitations, the present findings contribute to future theory and practice, which can grow and advance in relationship with mental health problems regarding Vietnamese university students. The results have substantial theoretical and practical implications. Theoretically, the findings may provide a clearer understanding of how university students’ self-concealment and stress levels influence their help-seeking attitudes. Additionally, the present study extends previous research by investigating the role of COVID-19 stress as a mediator in the relationship between self-concealment and help-seeking attitudes. It contributes to the advancement of current knowledge on the models developed to measure help-seeking attitudes.

The findings have many practical implications. During the lockdown period, university students have confronted many new challenges. However, they have not typically been regarded as the most vulnerable groups that should be prioritized for early mental health interventions, particularly students living alone who report high stress levels. In this regard, universities can help students address personal challenges such as providing financial hardship assistance and tuition fee reduction to support financially impacted students due to the COVID-19 pandemic. Besides, university administrators need to continuously assess, identify, prevent and manage mental health conditions of university students in an adequate manner. Supporting mental health issues in university students should be a high priority in pandemic and post-pandemic situations. Online interventions should be established in the pandemic because of their safety,
convenience, timeliness, and efficiency, such as psychological assistance hotlines, mental health services hotlines, online mental health education systems, and PsyCare. 6,66 PsyCare is a mental health care project during the pandemic that universities in Vietnam have developed. This project aims to support the general population’s psychological issues, especially vulnerable groups such as children, students, and the elderly. 67 Besides, the Vietnam Psychotherapy Association has officially announced a hotline number to support mental health for the general population, who were affected by the COVID pandemic. This mental health support program includes two groups: (i) mental health support during the pandemic group, (ii) severe mental illness (panic disorder, major depression and suicidality) support group.

Moreover, the help-seeking attitudes of Vietnamese university students may be related to their knowledge about mental illness and views of resources from family and friends as the main options. 61,68–70 These results imply that providing additional information about mental health problems and treatment resources is essential to facilitate mental health care. Therefore, mental health education, mental health awareness campaigns, training courses and psychoeducational programs should be provided for university students in Vietnam.

In terms of implications for clinical practice, our findings suggest that clinicians should consider self-concealment may affect clients in seeking help for their mental health problems. Besides, self-concealment and attitudes toward seeking professional psychological help could limit help-seeking behavior among clients. Therefore, clinicians should find ways to assess and address the perceptions of professional help for clients in therapy. If clients are uncomfortable with seeking or do not believe in helpful treatment processes, the risk of dropout will increase. Besides, Blanchard and Farber71 showed that 93% of participants admitted to lying in therapy process. They indicated a significant association between self-concealment and the topics which individuals lied in therapy. Therefore, these results remind clinicians about levels of concealment being likely in therapy and particularly among clients with high self-concealment.

Conclusion
There has been provided evidence showing that the COVID-19 pandemic has generally increased levels of stress among the general population, especially university students. It is essential to investigate professional help-seeking attitudes among students so that counselors and clinicians could provide psychological interventions in time. The results show that there are the associations between COVID-19 stress, self-concealment and professional help-seeking attitudes. The present study has found information about COVID-19 stress acting as a mediator between self-concealment and help-seeking attitudes, showing that individuals who tend to conceal personal information have higher COVID-19 stress levels, leading to more help-seeking attitudes. The findings highlighted the students’ openness to mental health issues and professional help-seeking, indicating that these students have believed in mental health services, support from counselors, clinicians, and therapists. The research findings suggest that students living alone experience more stress than those living with family or friends. It is noted that university administrators, social workers, counselors, clinicians, and therapists need to consider students living alone as prioritized vulnerable groups for early mental health interventions. This is the first research conducting the association between self-concealment and help-seeking attitudes among university students in the COVID-19 pandemic in Vietnam, contributing additional information to future similar studies based on our findings.

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References


Psychology and its application in behavior management to develop improved systems is completely online and includes a very quick and easy submission process. Journal submissions are handled online, and authors can track the status of their manuscripts through the submission system. The journal uses a rigorous peer-review process, ensuring that only high-quality, original research is published. All manuscripts are evaluated based on their scientific integrity, relevance, and contribution to the field of psychology. The journal covers a wide range of topics, including neuroscience, memory, and decision-making processes. It also explores the impact of social support on mental health among college students. The research examines the psychological and mental health consequences of the COVID-19 pandemic among young working adults. The study highlights the differences in social networks and mental health outcomes before and during the pandemic. The journal also discusses the psychological and mental health implications for young adult Hispanics during the COVID-19 crisis. It includes research on mental health literacy, stigma, and help-seeking behaviors among male college students. The journal further explores the psychological impact of COVID-19 on African Americans' perceptions of mental health and help-seeking behaviors. It also addresses the difference between seeking and not seeking psychological help among African American college students. Additionally, the journal delves into the role of social support in mental health among young adult Hispanics and examines the psychological and mental health consequences of the COVID-19 pandemic among African American college students.