Appendix S1: The Methods and Results of this Study

Methods

Data Collection

During the COVID-19 pandemic crisis, classes of all schools were suspended, and social

distancing measures were implemented in Hong Kong. It is challenging to coordinate different

schools and organizations to collect a representative community sample to study student mental

health during this period. Snowball sampling was adopted in this research to identify the

student participants. Snowball sampling is a type of non-probability sampling technique that is

used to identify potential participants where they are hard to locate. In this study, some students

were initially invited to fill out a questionnaire and they were asked to spread the questionnaire

to their schoolmates and friends who were studying in local secondary schools. The

questionnaire was administrated using digital survey to minimize personal contact. The

questionnaire was disseminated by the student participants through various social media

platforms, including WhatsApp, Instagram, and Facebook. The survey was conducted between

April and May 2020. All parents and students were informed about the voluntary basis of

participation and gave informed consent. None of the participants received any remuneration

for participating. The study was approved by the Research Ethics Committee of Hong Kong

Baptist University.

Measures

Demographic characteristics included age, gender, and grade (Form 1-6 in the Hong Kong

education system) of the participants was collected to provide a basic background information

of the participants in the research.

1

The Kessler Psychological Distress Scale (K6) is an abbreviated version of the distress scale K10, which is broadly used to screen for serious mental illness. There are six items to measure whether a respondent felt (1) nervous, (2) hopeless, (3) restless or fidgety, (4) depressed, (5) that everything was an effort, and (6) worthless in the past month. Each item of K6 is quantified using a 5-point Likert scale (0 = none of the time; 1 = a little of the time; 2 = some of the time; 3 = most of the time; 4 = all of the time). The total score ranges from 0-24. The scoring rule used is to classify respondents with scores of 13–24 as having probable serious mental illness and those with scores of 0–12 as not having serious mental illness. The psychometric properties of the K6 was evaluated in the Chinese student population. The test-retest reliability of the K6 scale was 0.79, the Cronbach's alpha was 0.84, and its area under the receiver operating curve for diagnosing serious mental illness was 0.85 (95% CI = 0.80–0.90). In the current study, the Cronbach's alpha was 0.89.

There were self-constructed items to investigate participants' help-seeking behaviors, intention to use online counselling, perceived benefits of online counselling, preferred channels, and past counselling experience. To identify participant's help-seeking behavior in response to mental distress, a question was self-constructed with four items asking if a respondent seeks help from the four common sources including: (1) talking to friends, (2) talking to family, (3) seeking help from a professional counsellor, and (4) using crisis line services. The items were measured using a yes/no checklist format.

Based on a recent study that investigated the relationship between students' intention to use online counselling and previous counselling experience. Related questions were self-constructed to fit the situation in the current study.³ A question examined students' likely intentions to use online counselling: "If online counselling service is available, and you are feeling distressed, would you use the service?" with two available responses of yes/no. Three questions were constructed to explore the participants' previous counselling experience. The

three questions ascertained the participants whether they have previous counselling experience in yes/no format and explore their feeling and the effectiveness of the counselling experience by rating from 1 to 10.

The literature shows that there are at least three possible benefits of using online platform for counselling namely convenient access, confidentiality and anonymity, and high level of security.^{4,5} Three yes/no questions were asked to understand the participants' perceived benefits of online counselling. There were also three items to explore the preference of the participants on using which online platforms to have online counselling, including email, instant message, and video chat. The items were measured using a yes/no checklist format.

Statistical Analysis

Descriptive statistics for categorical variables were shown by numbers and percentages, and descriptive statistics for continuous variables were shown by means and standard deviations. Gender, age, and grade differences were investigated by Chi-square test. Multiple binary logistic regression analyses were conducted to demonstrate the associations of participants' mental distress with (1) their demographic characteristics and (2) help-seeking behaviors. The participants without mental distress served as the reference group in the logistic regression analyses. Multiple binary logistic regression analyses were also conducted to demonstrate the associations of participants' intention to use online counselling with (1) their perceived benefits of online counselling, (2) preferred channels, and (3) past counselling experience. The participants who did not intend to use online counselling served as the reference group in the logistic regression analyses. Participants' mental distress is the moderator variable. The odds ratio and 95% confidence interval (CI) was presented. The analyses were adjusted by gender,

age, and grade. All statistical computations were performed by using statistical software R (R for Windows, V.3.6.3).

Results

300 participants were recruited in the study. There were significant differences in terms of gender, age, and grade (p < .001). Among the participants, 64% (n = 192) were female, 58% (n = 174) aged between 15 and 17 years old, and 26% (n = 78) were in Form 4. There were 36% of participants (n = 109) suffered from mental distress. The associations of mental distress with demographic characteristics and help-seeking behaviors are shown in Table 1. Participants in Form 6 were eight times more likely to exhibit mental distress than those in Form 1. Participants who would seek help from friends and family were associated with a decreased likelihood of exhibiting mental distress. There were no other significant associations.

45% of participants without mental distress (n = 86) intended to use online counselling. Table 2 shows the associations of intention to use online counselling with benefits of online counselling, preferred channels, and past counselling experience in participants without mental distress. For participants who did not have mental distress, those in Form 4 were five times more likely to utilize online counselling than those in Form 1. Participants who considered online counselling as secure were associated with an increased likelihood of utilizing online counselling. Participants who preferred using instant chat and video chat for counselling were more intending to use online counselling. There were no other significant associations.

42% of participants without mental distress (n = 46) intended to use online counselling. Table 3 shows the associations of intention to use online counselling with benefits of online counselling, preferred channels, and past counselling experience in participants with mental distress. For participants who had mental distress, those with higher level of perceived

effectiveness of their previous counselling sessions were more intending to use online counselling. There were no other significant associations.

References

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Tables

Table 1. Associations of mental distress with demographic characteristics and help-seeking behaviors

| No Yes n (%) n (%) OR (95% CI) p Baseline model Gender Sender | | Exhibiting mental | | | |
|---|---------------------------------------|-------------------|----------|----------------------|------|
| n (%) n (%) OR (95% CI) p Baseline model Gender Male 67 (35) 41 (38) 1 Female 124 (65) 68 (62) 0.85 (0.50, 1.45) .558 Age 18 years old or Above 16 (8) 26 (24) 1 1 15-17 years old 111 (58) 63 (58) 0.90 (0.34, 2.44) .826 11-14 years old 64 (34) 20 (18) 1.36 (0.31, 6.44) .688 Grade Form 1 25 (13) 8 (7) 1 1 Form 2 31 (16) 5 (5) 0.55 (0.15, 1.90) .353 Form 3 22 (12) 10 (9) 1.83 (0.53, 6.39) .334 Form 4 52 (27) 26 (24) 2.44 (0.57, 11.30) .238 Form 5 42 (22) 25 (23) 2.90 (0.65, 13.89) .169 Form 6 19 (10) 35 (32) 8.48 (1.70, 45.99)* .011 Help-seeking behaviors Talking to friends 149 (78) 63 (58) 0.36 | | distress | | | |
| Baseline model Gender Baseline model Gender Male 67 (35) 41 (38) 1 Female 124 (65) 68 (62) 0.85 (0.50, 1.45) .558 Age 18 years old or Above 16 (8) 26 (24) 1 1 15-17 years old 111 (58) 63 (58) 0.90 (0.34, 2.44) .826 11-14 years old 64 (34) 20 (18) 1.36 (0.31, 6.44) .688 Grade Form 1 25 (13) 8 (7) 1 1 Form 2 31 (16) 5 (5) 0.55 (0.15, 1.90) .353 5 Form 3 22 (12) 10 (9) 1.83 (0.53, 6.39) .334 Form 4 52 (27) 26 (24) 2.44 (0.57, 11.30) .238 Form 5 42 (22) 25 (23) 2.90 (0.65, 13.89) .169 Form 6 19 (10) 35 (32) 8.48 (1.70, 45.99) * .011 Help-seeking behaviors 11 42 (22) 46 (42) 1 42 (22) 46 (42) 1 42 (22) 46 (42) 1 42 (42) 1 42 (42) 1 | | | | OD (050/ CI) | |
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| Help-seeking behaviors Image: Control of the control of | Form 5 | 42 (22) | 25 (23) | 2.90 (0.65, 13.89) | .169 |
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| Talking to family 124 (65) 92 (84) 1 Yes 67 (35) 17 (16) 0.36 (0.17, 0.71) ** .004 Seeking professional help | No | 42 (22) | 46 (42) | 1 | |
| No 124 (65) 92 (84) 1 Yes 67 (35) 17 (16) 0.36 (0.17, 0.71) ** .004 Seeking professional help | Yes | 149 (78) | 63 (58) | 0.36 (0.18, 0.69) ** | .003 |
| No 124 (65) 92 (84) 1 Yes 67 (35) 17 (16) 0.36 (0.17, 0.71) ** .004 Seeking professional help | Talking to family | | | | |
| Yes 67 (35) 17 (16) 0.36 (0.17, 0.71) ** .004 Seeking professional help | | 124 (65) | 92 (84) | 1 | |
| Seeking professional help | Yes | 67 (35) | 17 (16) | 0.36 (0.17, 0.71) ** | .004 |
| | Seeking professional help | | ` ′ | , , , | |
| No 160 (84) 92 (84) 1 | No | 160 (84) | 92 (84) | 1 | |
| Yes 31 (16) 17 (16) 1.15 (0.55, 2.35) .714 | | ` ' | | 1.15 (0.55, 2.35) | .714 |
| Using crisis line service | | \ / | , | , , , | |
| No 188 (98) 106 (97) 1 | | 188 (98) | 106 (97) | 1 | |
| Yes 3 (2) 3 (3) 1.46 (0.24, 9.04) .673 | | ` ' | | | .673 |

^{*}p < .05.

^{**}p < .01.

Table 2. Associations of intention to use online counselling with benefits of online counselling, preferred channels, and past counselling experience in participants without mental distress

| Having intention to use | | | |
|-------------------------|---|--|--|
| | | | |
| | | OD (050/ CI) | |
| n (%) | n (%) | OR (95% CI) | p |
| | | | |
| 27 (22) | 22 (25) | | |
| ` ' | ` / | _ | 7 00 |
| 70 (67) | 54 (63) | 0.84 (0.44, 1.58) | .589 |
| | | | |
| ` ' | | | |
| ` ' | ` ′ | | .945 |
| 33 (31) | 31 (36) | 3.46 (0.52, 25.07) | .205 |
| | | | |
| 15 (14) | 10 (12) | | |
| 17 (16) | 14 (16) | 1.54 (0.51, 4.77) | .450 |
| 12 (11) | 10 (12) | 2.72 (0.68, 11.82) | .165 |
| 27 (26) | 25 (29) | 5.07 (1.06, 27.97) * | .049 |
| 23 (22) | 19 (22) | 4.71 (0.93, 27.11) | .069 |
| 11 (10) | 8 (9) | 3.99 (0.55, 31.06) | .175 |
| | | | |
| | | | |
| | | | |
| 42 (40) | 23 (27) | 1 | |
| 63 (60) | 63 (73) | 1.85 (0.98, 3.56) | .060 |
| | | | |
| 34 (32) | 25 (29) | 1 | |
| 71 (68) | 61 (71) | 0.92 (0.47, 1.82) | .814 |
| | | | |
| 65 (62) | 36 (42) | 1 | |
| 40 (38) | 50 (58) | 2.47 (1.32, 4.71) ** | .005 |
| , , | , , | , , , | |
| | | | |
| 92 (88) | 73 (85) | 1 | |
| ` ' | ` ′ | 1.16 (0.48, 2.83) | .745 |
| . , | , , | , , , | |
| 15 (14) | 2 (2) | 1 | |
| ` ' | | | .033 |
| 2 2 (00) | 2 : (7 0) | (2.2.5, 2.3.55) | |
| 88 (84) | 58 (67) | 1 | |
| ` / | ` ′ | | .013 |
| 1, (10) | | 2.02 (2.20, 0.01) | .010 |
| | | | |
| 82 (78) | 62 (72) | 1 | |
| 23 (22) | 24 (28) | 1.79 (0.32, 10.92) | .505 |
| | online co No n (%) 35 (33) 70 (67) 9 (9) 63 (60) 33 (31) 15 (14) 17 (16) 12 (11) 27 (26) 23 (22) 11 (10) 42 (40) 63 (60) 34 (32) 71 (68) 65 (62) 40 (38) 92 (88) 13 (12) 15 (14) 90 (86) 88 (84) 17 (16) | No Yes n (%) n (%) 35 (33) 32 (37) 70 (67) 54 (63) 9 (9) 7 (8) 63 (60) 48 (56) 33 (31) 31 (36) 15 (14) 10 (12) 17 (16) 14 (16) 12 (11) 10 (12) 27 (26) 25 (29) 23 (22) 19 (22) 11 (10) 8 (9) 42 (40) 23 (27) 63 (60) 63 (73) 34 (32) 25 (29) 71 (68) 61 (71) 65 (62) 36 (42) 40 (38) 50 (58) 92 (88) 73 (85) 13 (12) 13 (15) 15 (14) 2 (2) 90 (86) 84 (98) 88 (84) 58 (67) 17 (16) 28 (33) 82 (78) 62 (72) | online counselling No Yes n (%) n (%) OR (95% CI) 35 (33) 32 (37) 1 70 (67) 54 (63) 0.84 (0.44, 1.58) 9 (9) 7 (8) 1 63 (60) 48 (56) 0.95 (0.23, 3.90) 33 (31) 31 (36) 3.46 (0.52, 25.07) 15 (14) 10 (12) 1 17 (16) 14 (16) 1.54 (0.51, 4.77) 12 (11) 10 (12) 2.72 (0.68, 11.82) 27 (26) 25 (29) 5.07 (1.06, 27.97) * 23 (22) 19 (22) 4.71 (0.93, 27.11) 11 (10) 8 (9) 3.99 (0.55, 31.06) 42 (40) 23 (27) 1 63 (60) 63 (73) 1.85 (0.98, 3.56) 34 (32) 25 (29) 1 71 (68) 61 (71) 0.92 (0.47, 1.82) 65 (62) 36 (42) 1 40 (38) 50 (58) 2.47 (1.32, 4.71) ** 92 (88) 73 (85) 1 13 (12) 13 (15) 1.16 (0.48, 2.83) </td |

| | Mean (SD) | Mean (SD) | | |
|---|-----------|-----------|-------------------|------|
| Feeling of the counselling experience | 6.6 (2.0) | 6.6 (1.6) | 0.88 (0.50, 1.46) | .617 |
| Perceived effectiveness of the counselling experience | 5.7 (2.1) | 6.2 (2.3) | 1.27 (0.84, 2.01) | .267 |

^{*}p < .05.

^{**}p < .01.

Table 3. Associations of intention to use online counselling with benefits of online counselling, preferred channels, and past counselling experience in participants with mental distress

| | Having intention to use online counselling | | | |
|-------------------------------|--|---------|--------------------|------|
| | | | | |
| | No No | Yes | OD (050/ CI) | |
| D !' 1.1 | n (%) | n (%) | OR (95% CI) | p |
| Baseline model | | | | |
| Gender | 21 (22) | 20 (42) | | |
| Male | 21 (33) | 20 (43) | 1 | 100 |
| Female | 42 (67) | 26 (57) | 0.74 (0.32, 1.73) | .489 |
| Age | | | _ | |
| 18 years old or Above | 13 (21) | 13 (28) | 1 | |
| 15-17 years old | 41 (65) | 22 (48) | 0.32 (0.06, 1.30) | .132 |
| 11-14 years old | 9 (14) | 11 (24) | 0.29 (0.02, 4.08) | .364 |
| Grade | | | | |
| Form 1 | 2 (3) | 6 (13) | 1 | |
| Form 2 | 2 (3) | 3 (7) | 0.48 (0.04, 5.78) | .554 |
| Form 3 | 7 (11) | 3 (7) | 0.14 (0.01, 1.20) | .091 |
| Form 4 | 17 (27) | 9 (20) | 0.16 (0.01, 3.29) | .241 |
| Form 5 | 14 (22) | 11 (24) | 0.22 (0.01, 4.32) | .321 |
| Form 6 | 21 (33) | 14 (30) | 0.09 (0.00, 1.83) | .130 |
| Perceived benefits of online | | | | |
| counselling | | | | |
| Convenient access | | | | |
| No | 39 (62) | 24 (52) | 1 | |
| Yes | 24 (38) | 22 (48) | 1.47 (0.65, 3.36) | .358 |
| Confidentiality and anonymity | | | | |
| No | 20 (32) | 11 (24) | 1 | |
| Yes | 43 (68) | 35 (76) | 1.35 (0.52, 3.65) | .539 |
| High level of security | | | | |
| No | 38 (60) | 23 (50) | 1 | |
| Yes | 25 (40) | 23 (50) | 1.34 (0.56, 3.23) | .512 |
| Preferred online channels | , , | , , | | |
| Email | | | | |
| No | 52 (83) | 36 (78) | 1 | |
| Yes | 11 (17) | 10 (22) | 1.85 (0.65, 5.26) | .244 |
| Instant message | | | | |
| No | 6 (10) | 4 (9) | 1 | |
| Yes | 57 (90) | 42 (91) | 1.17 (0.26, 5.51) | .838 |
| Video chat | <i>C</i> , (3 0) | .= (>1) | (0.20, 0.01) | 1000 |
| No | 51 (81) | 32 (70) | 1 | |
| Yes | 12 (19) | 14 (30) | 1.77 (0.67, 4.77) | .252 |
| Past counselling experience | (1) | 1.(50) | 2 (0.07, 1.77) | .202 |
| Having counselling experience | | | | |
| No | 42 (67) | 29 (63) | 1 | |
| Yes | 21 (33) | 17 (37) | 4.81 (0.85, 40.71) | .099 |

| | Mean (SD) | Mean (SD) | | |
|---|-----------|-----------|----------------------|------|
| Feeling of the counselling experience | 5.2 (2.2) | 6.1 (2.9) | 0.45 (0.16, 1.02) | .084 |
| Perceived effectiveness of the counselling experience | 4.3 (2.2) | 5.5 (2.6) | 3.12 (1.24, 10.48) * | .032 |

^{*}p < .05.

^{**}p < .01.