

ONLINE FIRST – ACCEPTED ARTICLES

Accepted articles have been peer-reviewed, revised and accepted for publication by the *SMJ*. They have not been copyedited, and are posted online in manuscript form soon after article acceptance. Each article is subsequently enhanced by mandatory copyediting, proofreading and typesetting, and will be published in a regular print and online issue of the *SMJ*. Accepted articles are citable by their DOI upon publication.

Psychological health of graduating medical students in a time of COVID-19: a nationwide survey

Yi Quan <u>Tan</u>¹, MBBS, MMed, Lin <u>Kyaw</u>¹, MBBS, Ziting <u>Wang</u>¹, MBBS, MCI, Yen Seow Benjamin <u>Goh</u>^{1,2}, FRCS, FAMS

¹Department of Urology, National University Hospital, National University Health System, ²Department of Surgery, Yong Loo Lin School of Medicine, National University of Singapore, Singapore

Correspondence: Dr Yi Quan Tan, Senior Resident, Department of Urology, National University Hospital, National University Health System, 5 Lower Kent Ridge Rd, Singapore 119074. yi_quan_tan@nuhs.edu.sg

Singapore Med J 2021, 1–15

https://doi.org/10.11622/smedj.2021154 Published ahead of print: 11 October 2021

More information, including how to cite online first accepted articles, can be found at: http://www.smj.org.sg/accepted-articles

Short Communication Page 1 of 15

INTRODUCTION

The coronavirus disease 2019 (COVID-19), first reported in Wuhan, China in December 2019, has taken a significant toll on the world. At the time of this manuscript, there have been more than 6.6 million confirmed cases globally, affecting almost every country in the world. (1) COVID-19's high reproduction number (R0) coupled with an apparent lack of effective treatment and vaccines have caused an exponential increase in the number of cases. (2)

Despite global efforts to 'flatten the curve', the disease has caused significant depletion of healthcare resources, from medical resources such as Personal Protective Equipment (PPE) and ventilators, to manpower resources. With increasing strain on healthcare manpower, coupled with increasing workload, there have been increasing concerns about the negative psychological impact on healthcare workers. Many countries have taken pre-emptive steps to initiate needs assessments, preventive measures and set up support systems in order to minimize the psychological impact on healthcare workers. To alleviate manpower shortages, countries like the United States of America and the United Kingdom have allowed medical schools to graduate their students early to join the workforce. Meanwhile, in the United States of America, healthcare systems have employed medical students in other roles in this monumental fight against the pandemic. To

In Singapore, the country has experienced a growing number of infections ever since our first case on 23 January 2020. (8) Manpower remains a precious resource in ensuring quality healthcare delivery for both COVID-19 and non-COVID 19 related conditions. Final year medical students in Singapore sat for their final examinations in March and entered Postgraduate Year 1 (PGY1)/Housemanship by late April. The peak of the pandemic in Singapore coincided with the period after their examinations and prior to commencing work. There was inadequate time to include COVID-19 pandemic preparedness topics within their medical school undergraduate curriculum. During this pandemic, a study in China reported

Short Communication Page 2 of 15

anxiety levels of college students,⁽⁹⁾ and a study from Singapore examined the psychological impact on current healthcare workers.⁽¹⁰⁾ However, there have not been any studies, to our knowledge, studying the psyche of new doctors joining the workforce during these uncertain and complex times.

In this study, we aimed to examine the psychological health and preparedness of these graduating medical students entering the workforce during this COVID-19 pandemic using a nationwide survey.

METHODS

We conducted a nationwide, cross-sectional, web-based survey to study the psychological impact of COVID-19 on graduating medical students, and their mental preparedness to enter the workforce during this pandemic. Convenience sampling was used to invite graduating medical students from all 3 medical schools in Singapore to participate by filling out a self-administered online questionnaire using the Google Forms platform. There were no specific exclusion criteria. The study was conducted from 13 Apr 2020 to 19 Apr 2020 after obtaining institutional ethical approval.

We designed a 22-item questionnaire. Utilising the well-validated Depression, Anxiety, and Stress Scale (DASS-21) inventory to screen for psychological conditions. The questionnaire contained questions on demographics (6 items), personal interaction with COVID-19 positive patients (2 items), and 5-point Likert scale questions regarding psychological preparedness to start work in the climate of COVID-19 (8 items). Prior to the start of the study, the questionnaire was pilot tested on 10 graduating medical students to ensure comprehensibility. Minor modifications to phrasing of certain questions were made following feedback. The full version of the questionnaire can be found in the Appendix.

Short Communication Page 3 of 15

The survey was distributed through various online broadcast mediums including mailing list of the various undergraduate medical societies and medical students' social media platforms on 13 Apr 2020. A brief summary of the study including its objectives was distributed in the pre-survey portion. To prevent multiple entries, the survey required the participant to sign-in using their official University email address and email address was limited to 1 response. However, no identifiers were recorded, in order to preserve anonymity of respondents. Implicit consent was given when the respondent filled and submitted the online survey. The survey allowed responses for 1 week until 19 Apr 2020. This specific time frame was chosen to capture an accurate representation of psychological health prior to commencing work, since PGY1/Housemanship started in late-April 2020.

For ease of analysis, responses from the 5-point Likert scale was further categorized into 3 distinct categorical data, namely: 'agree' (score 4 and 5), 'neutral' (score 3) and 'disagree' (score 1 and 2). DASS-21 scores are reported categorically, namely: normal, mild, moderate, severe and extremely severe according to Table I. However, subsequent cross analyses of the scores were done as continuous variables. The Pearson chi-square test was used to compare categorical variables. Student T-test and one-way ANOVA were used to compare continuous variables. Multivariate analysis was also performed to adjust for potential confounders. A p-value of <0.05 was deemed statistically significant. All analyses were performed using IBM SPSS Statistics, Version 25.

RESULTS

We received a total of 127 responses from 13 Apr 2020 to 19 Apr 2020, with all of the respondents completing the entire survey. The overall response rate was 29.0%, ranging from 27.1% to 35.8% among the 3 medical schools. Responder demographics can be found in Table I.

Short Communication Page 4 of 15

The DASS-21 inventory scores 3 separate scales namely, Depression, Anxiety and Stress with the score subsequently categorised into normal, mild, moderate, severe and extremely severe depending on the score for the various psychological distresses. Of the 3 psychological conditions, anxiety was the most prevalent with 34 (27%) respondents screening positive for anxiety. 32 (25%) respondents screened positive for depression, and 30 (24%) screened positive for stress (Table II). Our respondents scored a median of 4 (IQR 8), 3 (IQR 7) and 7 (IQR 11) for depression, anxiety and stress respectively.

On univariate analysis, female respondents had higher anxiety scores (p=0.04; 95% CI 0.81-3.67) and higher stress scores (p=0.007; 95% CI 1.10-6.79) as compared to male respondents. However, on multivariate analysis, these were no longer statistically significant. Other demographics studied including medical school, first PGY1/Housemanship posting, race, and knowing someone with COVID-19 did not have statistically significant association (all p>0.05) with DASS-21 scores.

A majority of graduating medical students reported feeling inadequately trained to manage patients with COVID-19 (n=81, 63.8%). Regarding infectious control measures, 75 (59%) believed they would require more formal infection control training. A large majority 90 (71%) were confident in the PPE supplied by the hospital in preventing transmission of COVID-19. Interestingly, a far larger proportion of respondents were concerned of the possibility of passing the infection to their family members (n=110, 87%) than they were of contracting the virus themselves (n=86, 68%). 53 (42%) respondents agreed that they would potentially benefit from availability of counselling services during the pandemic. Despite all these concerns, only 13 (10%) respondents indicated that they would prefer to delay their entry into the workforce in this current pandemic. A summary of the responses can be found in Table III.

Short Communication Page 5 of 15

We compared respondents' DASS-21 scores with their preparedness to start work. Graduates with higher depression (p=0.009), anxiety (p<0.001) and stress (p=0.005) scores were more likely to prefer to delay their entry into the workforce. Graduates with higher anxiety (p=0.009) and stress (p=0.009) scores were more likely to think that they would benefit from the availability of counselling services during the pandemic. On the contrary, graduates with higher depression scores were less likely to think that they will benefit from such services (p=0.19).

DISCUSSION

This is the first nationwide study examining the psychological health and preparedness of a cohort of graduating medical students entering the workforce during the time this COVID-19 pandemic.

The uncertainty and fear surrounding this COVID-19 pandemic have been shown to have some psychological effects on medical students.

The DASS-21 has been used to assess the psychological health of medical students under periods of societal stress and unrest. In Syria, where the ongoing Syrian conflict has been a significant source of psychological distress, 350 students at a single centre were assessed psychologically using the DASS-21. (12) The prevalence of depression, anxiety and stress were 61%, 35% and 53% respectively. With a protracted conflict and its devastating socioeconomic ramifications, these rates were understandably higher compared to the 25%, 27%, 24% rate of depression, anxiety and stress respectively in our study. Female students were also more likely to be depressed and anxious, similar to our study.

In Singapore, the true prevalence of baseline depression, anxiety and stress among medical students prior to COVID-19 pandemic is not known. Availability of this data is further hampered by the preference for non-disclosure of personal mental health conditions for fear of

Short Communication Page 6 of 15

stigmatization.⁽¹³⁾ Our study represents the first estimate of prevalence of depressive, anxiety and stress symptoms among medical students in Singapore. Globally, a meta-analysis by Quek et al. had shown that the global prevalence of anxiety among medical students was 34% (95% CI: 29.2-38.7%). There were no statistically significant differences in anxiety symptom prevalence between gender and year of medical study on subgroup analysis.⁽¹⁴⁾ Another meta-analysis by Puthran et al demonstrated a global prevalence of depression among medical students of 28% (95% CI: 24.2-32.1%).⁽¹⁵⁾ They found that females were more likely to be depressed, similar to our findings.

In this study, we focused specifically on graduating final year medical students entering the workforce during the pandemic. In the meta-analysis by Puthran et al, the rate of depression reduces with progression in medical school. Year 1 students had higher depression rates of 34% (95% CI: 25.2-43.1%), than the rate of 21% (95% CI: 13.2-30.5%) for final year students. (15) Various studies have postulated increased resilience in their latter years in medical school as a reason for low rate of mental conditions. (16-18) The global rate for final year students is lower compared to the 25% rate in our study, possibly due to the effect of this COVID-19 pandemic. However, the lack of baseline local data precludes a definite conclusion.

In our study, graduating medical students with higher anxiety and stress scores were more likely to agree that they would benefit from counselling services but a similar trend is not seen in respondents with higher depression scores. This finding is consistent with Purthran et al's meta-analysis, where only 13% of depressed medical students sought medical treatment. This is a worrying trend as help-seeking behaviour might be unhealthy among students with depressive symptoms, contributed by preference for non-disclosure of their mental health conditions. A group in the United Kingdom created a digital psychological support learning package for healthcare workers during this COVID-19 pandemic. Such interventions would

Short Communication Page 7 of 15

improve access to psychological support, normalize and encourage help-seeking behaviour with the assurance of anonymity and confidentiality.

This study revealed psychological preparedness of graduating medical students in entering the workforce during this pandemic, with 64% of respondents feeling inadequately prepared. Singapore, being porous to foreign travellers, and its relative proximity to China, had the COVID-19 pandemic hit our shores fast. Our high-density population allowed for rapid second wave community spread. Medical schools managed to take students through a modified, high quality final year examination just before the peak of the pandemic, with little time for pandemic preparedness in the undergraduate curriculum. (20)

This lack of preparedness was represented in our findings where 59% reporting they would require more formal infection control training. Upon completion of the final year examination, intensive pandemic training and preparation have been implemented. Interestingly, a far larger proportion of respondents were concerned of the possibility of passing the infection to their family members (86%) than they were of contracting the virus themselves (67%). Furthermore, graduates with higher depression (p=0.009), anxiety (p<0.001) and stress (p=0.005) scores were more likely to prefer to delay their entry into the workforce.

When employed, various evidence-based interventions improve the psychological preparedness of graduating medical students. Education and improved knowledge of PPE use have been shown to significantly correlate with healthcare workers' confidence in PPE during a pandemic, reduce absenteeism, and reduce anxiety of being infected. (21) Resilience training prior and during a pandemic has also been shown to allow healthcare workers to feel more prepared and confident to deal with crises. (22) Moving forward, medical schools could consider incorporating pandemic preparedness-related training for medical students, as countries are bracing for a new normal with COVID-19. Equally importantly, such training would better equip our future doctors in the event of another pandemic of unpredictable impact.

Short Communication Page 8 of 15

The world we live in is volatile, uncertain, complex and ambiguous (VUCA), exemplified by the virulence and magnitude of this pandemic. Anxiety is related to an individual's ability to navigate through the uncertainty, medical education via formal or informal curriculum would certain encourage graduating medical students to step into their new identity and become healthcare providers. This transition from medical student to doctor is one of the largest steps in one's medical career, the stress and anxiety of this change in role is amplified by this pandemic. The medical community would do well to provide intentional support and care to their healthcare workers, with special attention to this group of doctors who transited during this COVID-19 pandemic.

We acknowledge certain study limitations due to restrictions imposed by this COVID-19 pandemic. In our study, due to the short timeframe available to collect responses before the graduating medical students started work, we used convenience sampling, which could introduce a degree of sampling bias. Due to social distancing during this COVID-19 pandemic, many surveys including ours, had to rely primarily on electronic dissemination, which is known to have lower overall response rates. Future research could also include focus group studies for qualitative assessment of these complex psychological health issues.

In conclusion, during this COVID-19 pandemic, approximately a quarter of our graduating medical students entering the workforce screened positive for depression, anxiety and stress. This represents the first study worldwide, to our knowledge, estimating the psychological health of graduating doctors during this COVID-19 pandemic. With a likely protracted COVID-19 pandemic and recovery phase, the reported low rate of psychological preparedness among our new doctors entering the workforce is of grave concern. This needs to be urgently addressed through a combination of deliberate pandemic preparedness training and psychological resilience training.

Short Communication Page 9 of 15

REFERENCES

 World Health Organization. WHO coronavirus disease (COVID-19) dashboard. Available at: https://covid19.who.int. Accessed June 20, 2020.

- 2. Liu Y, Gayle AA, Wilder-Smith A, Rocklöv J. The reproductive number of COVID-19 is higher compared to SARS coronavirus. J Travel Med 2020; 27:taaa021.
- Huang J, Liu F, Teng Z, et al. Care for the psychological status of frontline medical staff fighting against COVID-19. Clin Infect Dis 2020 Apr 3. https://doi.org/10.1093/cid/ciaa385. [Epub ahead of print]
- 4. Ripp J, Peccoralo L, Charney D. Attending to the emotional well-being of the health care workforce in a New York City health system during the COVID-19 pandemic. Acad Med 2020; 95:1136-9.
- 5. Dewitt DE. Fighting COVID-19: enabling graduating students to start internship early at their own medical school. Ann Intern Med 2020; 173:143-4.
- 6. Harvey A. Covid-19: medical schools given powers to graduate final year students early to help NHS. BMJ 2020; 368:m1227.
- 7. Soled D, Goel S, Barry D, et al. Medical student mobilization during a crisis: lessons from a COVID-19 medical student response team. Acad Med 2020; 95:1384-7.
- 8. Ministry of Health, Singapore. Confirmed imported case of novel coronavirus infection in Singapore; multi-ministry taskforce ramps up precautionary measures. Available at: https://www.moh.gov.sg/news-highlights/details/confirmed-imported-case-of-novel-coronavirus-infection-in-singapore-multi-ministry-taskforce-ramps-up-precautionary-measures. Accessed June 20, 2020.
- 9. Cao W, Fang Z, Hou G, et al. The psychological impact of the COVID-19 epidemic on college students in China. Psychiatry Res 2020; 287:112934.

Short Communication Page 10 of 15

10. Tan BYQ, Chew NWS, Lee GKH, et al. Psychological impact of the COVID-19 pandemic on health care workers in Singapore. Ann Intern Med 2020; 173:317-20.

- 11. Lovibond PF, Lovibond SH. The structure of negative emotional states: comparison of the Depression Anxiety Stress Scales (DASS) with the Beck Depression and Anxiety Inventories. Behav Res Ther 1995; 33:335-43.
- 12. Al Saadi T, Zaher Addeen S, Turk T, Abbas F, Alkhatib M. Psychological distress among medical students in conflicts: a cross-sectional study from Syria. BMC Med Educ 2017; 17:173.
- 13. Chang S, Ong HL, Seow E, et al. Stigma towards mental illness among medical and nursing students in Singapore: a cross-sectional study. BMJ Open 2017; 7:e018099.
- 14. Quek TTC, Tam WWS, Tran BX, et al. The global prevalence of anxiety among medical students: a meta-analysis. Int J Environ Res Public Health 2019; 16:2735.
- 15. Puthran R, Zhang MWB, Tam WW, Ho RC. Prevalence of depression amongst medical students: a meta-analysis. Med Educ 2016; 50:456-68.
- 16. Chandavarkar U, Azzam A, Mathews CA. Anxiety symptoms and perceived performance in medical students. Depress Anxiety 2007; 24:103-11.
- 17. Alvi T, Assad F, Ramzan M, Khan FA. Depression, anxiety and their associated factors among medical students. J Coll Physicians Surg Pak 2010; 20:122-6.
- 18. Dahlin M, Joneborg N, Runeson B. Stress and depression among medical students: a cross-sectional study. Med Educ 2005; 39:594-604.
- 19. Blake H, Bermingham F, Johnson G, Tabner A. Mitigating the psychological impact of COVID-19 on healthcare workers: a digital learning package. Int J Environ Res Public Health 2020; 17:2997.
- 20. Samarasekera DD, Goh DLM, Lau TC. Medical school approach to manage the current COVID-19 crisis. Acad Med 2020; 95:1126-7.

Short Communication Page 11 of 15

21. Schwartz D, Shapira S, Bar-Dayan Y. Health care workers' knowledge and confidence in personal protective equipment during the H1N1 pandemic in Israel. Disaster Med Public Health Prep 2014 Apr 11. https://doi.org/10.1017/dmp.2014.25. [Epub ahead of print]

22. Aiello A, Khayeri MY, Raja S, et al. Resilience training for hospital workers in anticipation of an influenza pandemic. J Contin Educ Health Prof 2011; 31:15-20.

Table I: Demographics of Respondents

Variable	No.(%)		
Age(mean, SD)		24.5, 2.16	
Sex	M	56(44)	
	F	71(56)	
Race	Chinese	116(91)	
	Malay	0(0)	
	Indian	8(6)	
	Others	3(2)	
Marital status	Single	123(97)	
	Married	4(3)	
	Others (divorced, separated, widowed)	0(0)	
Medical School	Yong Loo Lin School of Medicine	80(63)	
	Lee Kong Chian School of Medicine	28(22)	
	Duke-NUS School of Medicine	19(15)	
First Housemanship	Internal Medicine	72(57)	
Posting	General Surgery	24(19)	
	Orthopedic Surgery	13(10)	
	Pediatric Medicine	10(8)	
	Obstetrics & Gynecology	8(6)	
Family members with	Yes	0(0)	
COVID-19	No	127(100)	
Friends/acquaintances	Yes	41(32)	
with COVID-19	No	86(68)	

Short Communication Page 12 of 15

Table II: DASS-21 Scales of Respondents

Severity of Distress	Depression(%)	Anxiety(%)	Stress(%)
Normal	95(75)	93(73)	97(76)
Mild	15(12)	9(7)	7(6)
Moderate	12(9)	17(13)	15(12)
Severe	4(3)	7(6)	8(6)
Extremely Severe	1(1)	1(1)	0(0)

Table III: Respondents' Preparedness to Start Work

Question	Disagree(%)	Neutral(%)	Agree(%)
I am well-trained to manage patients with	81(64)	39(31)	7(6)
COVID-19			
I am aware of the hospital's infection	56(44)	40(32)	31(24)
control measures for COVID-19			
I am confident in the PPE supplied in	16(13)	21(17)	90(71)
preventing transmission of COVID-19			
I am concerned that I may contract the	13(10)	28(22)	86(68)
virus from patient encounters			
I am concerned that I may infect my family	5(4)	12(9)	110(87)
members in my line of work			
I would prefer to delay my entry into the	95(75)	19(15)	13(10)
workforce			
I need more formal infection control	22(17)	30(24)	75(59)
training			
I would benefit from the availability of	27(21)	47(37)	53(42)
counselling services			·

Short Communication Page 13 of 15

APPENDIX

Questionnaire

- 1. What is your age? _____
- 2. Which medical school did you graduate from?
 - a. Yong Loo Lin School of Medicine
 - b. Duke-NUS Graduate Medical School
 - c. Lee Kong Chian School of Medicine
- 3. Which is your first HO Posting?
 - a. Internal Medicine
 - b. Surgery
 - c. Orthopaedics
 - d. Paediatrics
 - e. Obstetrics & Gynaecology
- 4. What is your gender?
 - a. Male
 - b. Female
- 5. What is your race?
 - a. Chinese
 - b. Malay
 - c. Indian
 - d. Other
- 6. What is your marital status?
 - a. Single
 - b. Married
 - c. Divorced
 - d. Separated
 - e. Widowed

Short Communication Page 14 of 15

D	ASS21 Name:	1	Date:		
applie	e read each statement and circle a number 0, 1, 2 or 3 which indicate of to you over the past week. There are no right or wrong answers. I on any statement.				
The ra	ating scale is as follows:				
1 /	Did not apply to me at all Applied to me to some degree, or some of the time Applied to me to a considerable degree or a good part of time Applied to me very much or most of the time				
1 (s)	I found it hard to wind down	0	1	2	3
2 (a)	I was aware of dryness of my mouth	0	1	2	3
3 (d)	I couldn't seem to experience any positive feeling at all	0	1	2	3
4 (a)	I experienced breathing difficulty (e.g. excessively rapid breathing, breathlessness in the absence of physical exertion)	0	1	2	3
5 (d)	I found it difficult to work up the initiative to do things	0	1	2	3
6 (s)	I tended to over-react to situations	0	1	2	3
7 (a)	I experienced trembling (e.g. in the hands)	0	1	2	3
8 (s)	I felt that I was using a lot of nervous energy	0	1	2	3
9 (a)	I was worried about situations in which I might panic and make a fool of myself	0	1	2	3
10 (d)	I felt that I had nothing to look forward to	0	1	2	3
11 (s)	I found myself getting agitated	0	1	2	3
12 (s)	I found it difficult to relax	0	1	2	3
13 (d)	I felt down-hearted and blue	0	1	2	3
14 (s)	I was intolerant of anything that kept me from getting on with what I was doing	0	1	2	3
15 (a)	I felt I was close to panic	0	1	2	3
16 (d)	I was unable to become enthusiastic about anything	0	1	2	3
17 (d)	I felt I wasn't worth much as a person	0	1	2	3
18 (s)	I felt that I was rather touchy	0	1	2	3
19 (a)	I was aware of the action of my heart in the absence of physical exertion (e.g. sense of heart rate increase, heart missing a beat)	0	1	2	3
20 (a)	I felt scared without any good reason	0	1	2	3
21 (d)	I felt that life was meaningless	0	1	2	3

7	Rased on th	he DASS-21	score above	what is your	Depression	scale/score?	
/ .	Dascu on a	11/7/11/11/11	SCOIL AIRCYC.	what is voui	176776551071	SCAIC/SCOIC!	

8. Based on the DASS-21 score above, what is your Anxiety scale/score?

9. Based on the DASS-21 score above, what is your Stress scale/score?

10. Do you know of any family members diagnosed with COVID-19?

- a. Yes
- b. No
- 11. Do you know of any friends or acquaintances diagnosed with COVID-19?
 - a. Yes
 - b. No

Short Communication Page 15 of 15

Please select the most appropriate for each statement.

12. I am well trained to manage patients with COVII	D-19.
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	
13. I am aware of the hospitals' infection control me	asures for COVID-19
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	e. Suongry rigide
14. I am confident in the PPE supplied in preventing	
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	
15. I am concerned that I may contract the virus from	n patient encounters.
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	
16. I am concerned that I may infect my family mem	•
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	
17. I would prefer to delay my entry into the workfor	rce in view of the COVID-19 situation.
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	
10 I mad many formal infaction control topining	
18. I need more formal infection control training.	d Agrag
a. Strongly disagree	d. Agree
b. Disagreec. Neutral	e. Strongly Agree
c. Neutral	
19. I would benefit from the availability of counselling	ng services during this pandemic.
a. Strongly disagree	d. Agree
b. Disagree	e. Strongly Agree
c. Neutral	