RESEARCH ARTICLE

Mental Health of House Officers during COVID-19 Pandemic in Malaysia

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Abstract

Introduction: The Covid-19 pandemic most certainly impacted the mental health of healthcare professionals in Malaysia. Aim: The aim of our research is to assess the mental health of house officers in Malaysia during the COVID-19 pandemic and to compare this with the pre-pandemic times. Method: 122 house officers from 28 hospitals in Malaysia were recruited into the study and completed an online questionnaire of their demographics, including the Depression, Anxiety and Stress Scale 21 items (DASS-21), Satisfaction with Life Scale and Brief Resilience Scale. Results: Results showed that depression (36.1%), anxiety (33.7%) and stress (23.8%) were all prevalent among house officers with depression being the most prevalent among the three. Majority of the house officers were slightly satisfied with life (30.3%) and most of them had normal resilience (71.3%). Discussion: We compared our study with 5 other studies from 2010 to 2017 and found similar prevalence in depression, anxiety and stress except for the study in 2017 which showed overall prevalence in depression, anxiety and stress. 8.2% of our subjects recorded extremely severe depression, which is almost twice as much as the two studies we have for comparison. Conclusion: Housemanship training in Malaysia is indeed a stressful period for junior doctors especially in times of the COVID-19 pandemic. More support systems should be made. ASEAN Journal of Psychiatry, Vol. 23 (4): April 2022:1-12.

Keywords: Mental Health, DASS-21, House Officers, Malaysia, COVID-19 Pandemic

Introduction

House Officers are junior doctors who are undergoing training over a two-year period upon graduating from medical school. The medical internship program is a highly stressful period as they are under pressure to learn and execute a great deal in order to operate independently as medical officers upon completing their internship program [1]. Examples of tasks that induce psychological distress for house officers include night calls, long hours of work with a monotonous nature, less personal time for relaxation, a wage that does not tally with the level of effort the job demands, and inadequate working conditions [2]. House officers are subjected to cognitive impedance and emotional vulnerability and under continuous pressure to function optimally often under a sleepdeprived state. As they become used to the idea of undertaking increased workloads without complaints they often neglect their own needs; this, in turn, makes it difficult for them to seek assistance largely due to the stigma that revolves around mental health. The prevalence of stress,

anxiety, and depression was noted to be 29.7%, 39.9%, and 26.2% in a cross-sectional study conducted at 26 Malaysian Ministry of Health Hospitals with a total of 431 medical interns in 2017 [3]. The COVID-19 pandemic caused by the SARS-CoV2 Virus in 2020 adds to mental health problems among healthcare workers and is a cause for concern. In Malaysia, cases were initially reported in January 2020 which dramatically escalated in March and topped in August 2021 [4]. As of 11 November 2021, 2,528,821 confirmed cases of COVID-19; 29,535 cases of deaths and 2,435,459 recovered cases have been reported. Cases of psychological distress and other mental health symptoms such as anxiety and depression continued to worsen especially among House Officers (HO) in Malaysia during this pandemic.

House officers are often assigned as the COVID-19 front liners to manage the outbreak and admit the COVID-positive patients. The front liners dealing with the diagnostic workup of COVID-19, managing emergency conditions, complications or progression to worsening symptoms, having to wear Personal Protective Equipment (PPEs) constantly throughout the day and facing patient's death on a daily basis at first hand put them under additional tremendous mental and emotional pressure. A study conducted by Rossi et al. reported that doctors in Italy experienced symptoms of post-traumatic stress, depression, anxiety, and increased stress at 49.38%, 24.73%, 19.80%, and 21.90% respectively during the peak incidence of COVID-19 pandemic in the country. This situation was further worsened by the social restrictions and lockdown that prevented outdoor activities [5]. Chronically fatigued doctors with unaddressed mental health problems would negatively impact themselves as well as patient safety thereafter causing derangement in the delivery of healthcare services.

The aim of our research is to study the mental health of house officers in Malaysia during the COVID-19 pandemic and to compare this with the pre-pandemic times.

Methods

This cross-sectional study was done as a part of another study. The research was conducted from 10 April 2021 to 26 July 2021 in 28 Malaysian government hospitals that provided housemanship training. All first and second-year house officers who were competent in the English Language were included in the study. The participants were recruited with a convenient sampling method whereby students approach house officers via IMU Alumni office, facebook live session with Malaysian Medical Association (MMA) Section Concerning House Officers, Medical Officers and Specialists (SCHOMOS) and friend's recommendation.

A google online questionnaire form involving basic demographics information with measures of five variables: Depression, Anxiety and Stress (DASS-21), Resilience (Brief Resilience Scale) and life satisfaction (satisfaction with life scale) were distributed to all participants *via* email or WhatsApp messages. English is the only language used in the questionnaire. The primary outcome for sample size estimation will be anxiety. Depression, stress, resilience and satisfaction with life will be our secondary outcomes. The prevalence of these is different.

The study was registered with the National Medical Research Registry (NMRR-21-1049-58495). Ethical approval was obtained from the International Medical University Joint Committee (IMUJC) prior to conducting the research. Approval from Malaysia medical research ethics council is not needed for the study since it does not involve the Ministry of Health's clinical sites.

Study Instruments

Depression, Anxiety and Stress Scale 21 Items (DASS-21) is a set of three self-report scales used to measure the emotional states of depression, anxiety and stress. Each of the three DASS-21 scales contains 7 items, divided into subscales with similar content. The depression scale assesses dysphoria, hopelessness, devaluation of life, self-

deprecation, lack of interest or involvement, anhedonia and inertia. The anxiety scale assesses autonomic arousal, skeletal muscle effects, situational anxiety, and subjective experience of anxious affect. The stress scale is sensitive to levels of chronic nonspecific arousal. It assesses difficulty relaxing, nervous arousal, and being easily upset/agitated, irritable/over-reactive and impatient. Scores for depression, anxiety and stress are calculated by summing the scores for the relevant items.

Some words may need to be explained as it is not commonly used in Malaysia. Some words cannot be changed or rephrased as we will change the reliability and validity. We will add in brackets the alternative explanation according to Macmillan dictionary as below: a) Wind down to end or to finish something gradually; to gradually reduce work before stopping completely; to relax after a period of excitement or worry b) Rather touchy becoming angry or upset very easily; likely to make people angry or upset c) Blue feeling rather sad

The satisfaction with life scale is a 7 point Likert style response scale. The possible range of scores is 5-35, with a score of 20 representing a neutral point on the scale. Scores between 5 to 9 indicate the respondent is extremely dissatisfied with life, whereas scores between 31-35 indicate the respondent is extremely satisfied. The Brief Resilience Scale (BRS) was created to assess the ability to bounce back or recover from stress. The tool asks individuals to decide how much they agree or disagree with six statements. Each answer is allocated a number. Once all six statements have been assessed, the individual can total up their numbers. This summing up will give them an overall resilience score of between 6 and 30.

Sample Size Calculation

We calculated the sample we required using the open-source 'OpenEpi' sample size calculator. We estimated there were 10,000 housemen. Supposing the proportion affected with stress anxiety or depression to be 33% and requiring a confidence limit of \pm 5% and 80% confidence level, the sample size calculated was 144.

Statistical Analysis

All responses were recorded on google sheet and interpreted with IBM SPSS version 28. Descriptive analysis was performed for demographic details of the respondents and the 5 metrics that were measured in this study. The Chi-square test was used to examine the association between sociodemographic information and the psychological components. The level of statistical significance was set at P<0.05 for all analyses. As part of data cleaning, we applied the standard practice. As part of the standard practice, subjects with missing categorical data were assigned in the ratio of other groups.

Results

A total of 122 house officers participated in this study. The Subject approached was often reluctant to give consent. We recruited 122 house officers from 28 hospitals. Table 1 shows the social demographics of the 122 participants. Most (94.3%) were between 25 to 29 years old. 54.1% of house officers were Chinese. 83.6% were single and all but one were Malaysian

Table 1. S	Socio-demogra	phics of hous	e officers	(N=122)
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Socio-Demographics								
Variables	Frequency, n	Percentage, %						
Age								
18-24	3	2.5						
25-29	115	94.3						

y, von 20(4), April 20		
30-34	3	2.5
35-39	1	0.8
Gender		
Male	50	41
Female	72	59
Ethnicity		
Malay	33	27
Chinese	65	54.1
Indian	24	18.9
Number of Posting	Completed	·
1st year (1st to 3rd postings)	84	68.9
2nd year (4th to 6th postings)	38	31.1
Family Income		
<rm4360< td=""><td>25</td><td>20.5</td></rm4360<>	25	20.5
RM 4360-RM 9619	68	55.7
>RM 9619	29	23.8
Marital Status		
Single	102	83.6
Married	20	16.4
Graduated Univers	ity	
Local Universities	96	79.2
Overseas Universities	26	20.8
Current Working I	Iospital	
Peninsular Malaysia	79	63.3
East Malaysia	43	36.7

Table 2 & 3 shows the data on mental health status scores of the house officers in terms of Depression, Anxiety and Stress Scores. The prevalence of anxiety, depression and stress was 55.7%, 43.4% and 40.2% respectively. A larger number had mild to moderate levels of depression, anxiety and stress

but 15.6 % had extremely severe anxiety 8.2% and extremely severe depression. 30.3% of the house officers are slightly satisfied with life but 4.1% are extremely dissatisfied with life. A majority have normal resilience, 71.3%. None of the house officers in our study had high resilience.

Table 2. DASS-21 scores, Satisfaction with Life Scale and Brief Resilience Scale of the Respondents

	Depression	Anxiety	Stress
Total Respondents	122		
Mean \pm SD	2.02 ± 1.34	2.27 ± 1.47	1.77 ± 1.127

Category	n	%	n	%	n	%
Normal	69	56.6	54	44.3	73	59.8
Mild	9	7.4	27	22.1	20	16.4
Moderate	26	21.3	14	11.5	18	14.8
Severe	8	6.6	8	6.6	6	4.9
Extremely Severe	10	8.2	19	15.6	5	4.1

Table 3. Satisfaction with Life Scale and Brief Resilience Scale of the Respondents

Satisf	action with life scale					
Mean ± SD	4.17 ± 1.59					
Variables	n	%				
Extremely Dissatisfied	5	4.1				
Dissatisfied	17	13.9				
Slightly Dissatisfied	25	20.5				
Neutral	12	9.8				
Slightly Satisfied	37	30.3				
Satisfied	20	16.4				
Extremely Satisfied	6	4.9				
Bri	ef Resilience Scale					
Mean ± SD	1.71	± 0.454				
Variables	n	%				
Low Resilience	35	28.7				
Normal Resilience	87	71.3				
High Resilience	0	0				

Table 4 & 5 indicates that there is a significant relationship between age and depression

(p=<0.001) but the number of house officers in the youngest age group (18-24) is very small (Table 6).

Table 4. Association between stress, depression, anxiety, satisfaction with life scale and brief resilience scale with socio-demographic factors.

Stress											
Socio-demographics	Frequency	Frequency, n									
Socio-demographics	Normal	Mild	Moderate	Severe	Extreme Severe	x ²	df	р			
Gender											
Male	33	10	3	2	2	5.758	4	0.218			
Female	40	10	15	4	3						
Age											
18-24	2	0	1	0	0						
25-29	68	20	16	6	5	9.452	12	0.664			
30-39	3	0	1	0	0						
Ethnicity											
Malay	18	6	6	1	2						

Chinese	45	10	6	3	2	19.815	20	0.47
Indian	9	2	5	2	1			
Others	1	2	1	0	0			
Number of Posting	_			-				
1st year	50	14	10	6	4	25.569	24	0.375
2nd year	21	6	6	0	1			
Marital Status								
Single	60	17	14	6	5	8.192	8	0.415
Married	13	3	3	0	0			
Divorced	0	0	1	0	0			
Family Income								
<rm4360< td=""><td>15</td><td>5</td><td>3</td><td>0</td><td>2</td><td></td><td></td><td></td></rm4360<>	15	5	3	0	2			
RM 4360-RM 9619	43	7	13	3	2	10.81	8	0.213
>RM 9619	15	8	2	3	1			
Depression								
Gender								
Male	28	6	9	4	3	3.663	4	0.454
Female	41	3	17	4	7			
Age								
18-24	1	0	0	2	0	33.404	12	< 0.001
25-29	67	9	24	6	9			
30-39	1	0	2	0	1			
Ethnicity								
Malay	16	1	9	4	3			
Chinese	44	7	11	3	1	28.084	20	0.107
Indian	6	1	5	1	6			
Other	3	0	1	0	0			
Number of posting								
1st year	46	8	17	7	6	24.331	24	0.443
2nd year	22	1	8	0	3			
Marital status								
Single	57	8	23	7	7	12.255	8	0.14
Married	12	1	3	1	2			
Divorced	0	0	0	0	1			
Family income								
<rm4360< td=""><td>14</td><td>2</td><td>5</td><td>2</td><td>2</td><td></td><td></td><td></td></rm4360<>	14	2	5	2	2			
RM 4360-RM 9619	36	5	16	5	6	1.661	8	0.99
>RM 9619	19	2	5	1	2			
Anxiety	T	1	I	1	Γ	I	1	1
Gender	<u> </u>	<u> </u>						
Male	26	11	5	1	7	4.126	4	0.389
female	28	16	9	7	12			

Age								
18-24	1	1	0	0	1			
25-29	51	25	14	7	18	7.098	12	0.851
30-39	2	1	0	1	0			
Ethnicity								
Malay	10	11	4	3	5			
Chinese	35	14	8	3	6	22.834	20	0.297
Indian	7	1	2	2	7			
Other	2	1	0	0	1			
Number of Posting								
1st year	33	20	10	8	13	34.383	24	0.078
2nd year	20	7	4	0	3			
Marital status								
Single	43	21	13	7	18			
Married	10	6	1	1	1	4.962	8	0.762
Divorced	1	0	0	0	0			
Family income								
<rm4360< td=""><td>11</td><td>7</td><td>2</td><td>1</td><td>4</td><td></td><td></td><td></td></rm4360<>	11	7	2	1	4			
RM 4360-RM 9619	29	14	11	3	11	6.957	8	0.541
>RM 9619	14	6	1	4	4			

 Table 5. Satisfaction with life scale and brief resilience scale with socio-demographic factors.

Satisfaction wit	h life scale									
	Frequency,	n								
Socio Demographics	Extremely Dissatisfied	Dissatisfied	Slightly Dissatisfied	Neutral	Slightly Satisfied	Satisfied	Extremely Satisfied	x2	df	р
Gender										
Male	2	7	8	5	16	10	2	1.7	6	0.942
Female	3	10	17	7	21	10	4			
Age										
18-24	1	0	0	0	1	0	1			
25-29	4	16	24	12	35	19	5	21	18	0.27
30-39	0	1	1	0	1	1	0			
Ethnicity										
Malay	3	4	7	3	10	4	2			
Chinese	2	9	13	6	22	12	2	21	30	0.884
Indian	0	4	3	3	3	4	2			
Other	0	0	2	0	2	0	0			
Number of posting										
1st year	3	9	20	9	25	14	4	42	36	0.216
2nd year	1	8	4	3	11	6	1			

Marital status										
Single	4	14	18	10	35	16	5			
Married	1	2	7	2	2	4	1	13	12	0.4
Divorced	0	1	0	0	0	0	0			
Family income										
<rm4360< td=""><td>0</td><td>5</td><td>5</td><td>5</td><td>4</td><td>2</td><td>4</td><td></td><td></td><td></td></rm4360<>	0	5	5	5	4	2	4			
RM 4360-RM 9619	4	8	15	3	23	13	2	20	12	0.076
>RM 9619	1	4	5	4	10	5	0			

Table 6. Brief resilience scale with socio-demographic factors.

Brief Resilience Scale								
Socio-Demographics	Frequency, n							
	Low Resilience	Normal Resilience	High Resilience	x2	df	р		
Gender								
Male	12	38	0	0.91	1	0.34		
Female	23	49	0					
Age								
18-24	2	1	0					
25-29	32	83	0	2.591	3	0.459		
30-39	1	3	0					
Ethnicity								
Malay	8	25	0					
Chinese	22	44	0	2.676	5	0.75		
Indian	5	14	0					
Other	0	4	0					
Number of posting								
1st year	28	56	0	6.387	6	0.381		
2nd year	6	28	0					
Marital status								
Single	31	71	0					
Married	4	15	0	1.089	2	0.58		
Divorced	0	1	0					
Family income								
<rm4360< td=""><td>7</td><td>18</td><td>0</td><td></td><td></td><td></td></rm4360<>	7	18	0					
RM 4360-RM 9619	19	49	0	0.102	2	0.95		
>RM 9619	9	20	0					

Discussion

We were interested to compare our findings to similar studies done before the COVID-19

pandemic there have been 5 studies on the mental health of house officers that used the DASS questionnaire we were able to compare our data with. The studies dated from 2010 till 2017 and

were conducted in various locations, such as one university hospital alone, or in the entire state of Sabah or nationwide like ours. The sample sizes ranged from 89 to 431. There was considerable heterogeneity in the demographics of the studies (Table 7). Our study has the fewest in the 20-24 year age group. All studies had a majority of females and singles. However, some had a majority of Malays while others had a majority of Chinese. The studies in 2010 and 2013 had a majority of foreign university graduates but from 2015 local graduates formed the majority.

Table 7. Comparison of social demographics of house officers from this study compared with previous related studies.

Comparison of Soc Authors	Tan et al	Kian et al	Yeoh et al	Shahruddin et al	Ismail et al	Lim et al	
	2010	2013	2015	2015	2017	2021	
Year of study							
Total Respondents	89	167	227	121	431	122	
(Age Range), %	(23-28) 89.9	(23-25) 45.5	(23-25) 33.5	-	(20-25) 24.1	(18-24) 2.5	
	(29-34) 10.1	(26-28) 50.9	(26-28) 63.0	-	(26-30) 74.0	(25-29) 94.3	
	-	(29-31) 3.6	(29-30) 3.5	-	(31-35) 1.9	(30-34) 2.5	
	-	-	-	-	-	(35-39) 0.8	
Gender, %							
Male	39.3	35.3	44.1	48.4	39.7	41	
Female	60.7	64.7	55.9	51.6	60.3	59	
Ethnicity, %							
Malay	58.4	52.7	26.4	30.8	66.1	27	
Chinese	25.8	20.4	55.1	29.7	20.6	54.1	
Indian	11.2	26.3	7.9	7.7	10.4	18.9	
Sabah	-	-	0.9	27.5	-	-	
Sarawak	-	-	9.3	-	-	-	
Others	4.5	0.6	0.4	4.4	2.8	-	
Number of Posting Completed							
Mean \pm SD	-	-	-	2.76 ± 1.8	-	-	
1st year, %	71.9	59.9	-	-	47.3	68.9	
2nd year, %	28.1	40.1	-	-	52.7	31.1	
Marital Status, %							
Single	80.9	75.4	89.8	-	75.4	83.6	
Married	19.1	24.6	10.2	-	24.6	16.4	
braduated Iniversity, %							
Local	28.1	46.7	51.5	64.8	-	69.7	
Universities							
Overseas	71.9	53.3	45.8	35.2	-	11.5	
Universities							
Current Working Hospital, %							
Peninsular	-	-	-	63.7	-	63.3	

Malaysia						
East Malaysia	-	-	-	36.3	-	36.7

We were able to obtain the breakdown into the severity of depression, anxiety and stress in two of

the studies, and of anxiety in a third study (Table 8).

Comparison of DASS score results of 2021 with previous studies							
Authors	Tan et al	Kian et al	Yeoh et al	Shahruddin et al	Ismail et al	Lim et al	
Year of study	2010	2013	2015	2015	2017	2021	
Total number of participants	89	167	227	91	431	122	
DASS type	DASS-21	DASS-21	DASS-42	DASS-21	DASS-42	DASS-21	
Depression							
Prevalence, %	-	36.5	42	42.9	26.2	43.4	
Category, %							
Normal	-	63.5	-	-	73.8	56.6	
Mild	-	16.2	-	-	10	7.4	
Moderate	-	19.2	-	-	7.4	21.3	
Severe	-	0.6	-	-	3.9	6.6	
Extremely Severe	-	0.6	-	-	4.9	8.2	
Anxiety							
Prevalence, %	60.7	60	50	63.7	39.9	55.7	
Category, %							
Normal	39.3	40	-	-	60.1	44.3	
Mild	13.5	24.6	-	-	10.7	22.1	
Moderate	28.1	19.2	-	-	16	11.5	
Severe	3.4	9.6	-	-	4.2	6.6	
Extremely Severe	15.7	6.6	-	-	9	15.6	
Stress							
Prevalence, %	-	25.7	42.7	57.1	29.7	40.2	
Category, %							
Normal	-	74.3	-	-	70.3	59.8	
Mild	-	12	-	-	12.1	16.4	
Moderate	-	12.6	-	-	9.7	14.8	
Severe	-	0.6	-	-	5.8	4.9	
Extremely Severe	-	0.6	-	-	2.1	4.1	

Table 8. Comparison of DASS scores with previous related studies

The prevalence of depression ranged from 26.2% to 43.4%. The prevalence of anxiety from 39.9% to 63.7% and for stress from 25.7% to 57.1%. Compared to the other studies, the DASS prevalence for our study during the COVID-19 pandemic was not always the highest. It was

highest only for depression and only exceeded the depression prevalence of the next two studies conducted in 2015 by less than 2%. There does not seem to have been an increase in depression, anxiety and stress among house officers according to studies using the DASS scoring system, either

the DASS 21 or 42 versions. However, a broad survey of many may overlook the effects on susceptible individuals and it is noteworthy that 8.2% of our subjects recorded extremely severe depression, which is almost twice as much as the two studies we have for comparison.

The study of house officers in the Sarawak General Hospital found that foreign graduates were significantly more likely to suffer from depression, anxiety and stress but this was not seen in other studies. It also found non-Sarawakians were more likely to suffer from anxiety. None of the studies found any significant difference in depression, anxiety and stress for demographic factors like age, sex, ethnicity or marital status. Neither was being in the first nor second year of posting significant [9].

Conclusion

Housemanship training in Malaysia is indeed a stressful period for junior doctors especially in times of the COVID-19 pandemic. Even though the prevalence of depression, anxiety and stress had not much difference compared to prepandemic, it is notable that 8.2% of junior doctors were experiencing extremely severe depression during the pandemic which was in need of professional help. This study has also shown that the number of postings is not associated with DASS scores of the junior doctors.

It is crucial for the healthcare professionals and related stakeholders to acknowledge the psychological distress that these junior doctors are experiencing. More support systems should be made available to house officers while alternatives such as text-based mental health coaching applications can be considered for the mental wellbeing of junior doctors. Further research is needed to study the benefit of using the aforementioned applications in improving mental health among house officers in Malaysia.

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