

RESEARCH PAPER

Redeployment of psychiatrist trainees during the COVID-19 pandemic: evaluation of attitude and preparedness

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Cite this article as: Wadoo O, Ouanes S, Al Siaghy A, Hassan MHMO, Zoghbi Y, Alabdulla M. Redeployment of psychiatrist trainees during the COVID-19 pandemic: evaluation of attitude and preparedness, Qatar Medical Journal 2021:64 http://dx.doi.org/10.5339/qmj.2021.64



دار جامعة حمد بن خليفة للنشر HAMAD BIN KHALIFA UNIVERSITY PRESS

ABSTRACT

Background: The coronavirus disease-2019 (COVID-19) pandemic has imposed an unprecedented strain on healthcare systems worldwide. In response, psychiatrist trainees were redeployed from their training sites to help manage patients with COVID-19. This study aimed to examine the attitude of psychiatrist trainees toward redeployment to COVID-19 sites and their perceived preparedness for managing physical health conditions during redeployment.

Methods: A cross-sectional researcher-developed online survey was administered among psychiatrist trainees in May 2020 at the Department of Psychiatry, Hamad Medical Corporation, Qatar. Results: Of the 45 psychiatrist trainees, 40 (88.9%) responded to the survey. Most trainees reported being comfortable dealing with chronic medical conditions, but less so with acute life-threatening medical conditions. Half reported feeling anxious about redeployment, and most felt the need for additional training. We found that trainees' perceived redeployment preparedness was significantly associated with their level of postgraduate training and the time since and duration of their last medical or surgical training.

Conclusion: Adequate preparation and training of psychiatrist trainees is important before redeployment to COVID-19 sites to ensure that they can effectively and safely manage patients with COVID-19.

Keywords: psychiatry, trainees, residents, fellows, COVID-19, pandemic, redeployment

INTRODUCTION

The novel coronavirus disease-2019 (COVID-19), which was first reported in Wuhan, China, was declared as a public health emergency by the World Health Organization (WHO) in March 2020. The State of Qatar confirmed its first positive case on February 29, 2020. By July, Qatar had one of the highest numbers of patients with COVID-19 per million population.¹ The pandemic puts strain on health systems and essential public services worldwide, including Oatar. Public health facilities were overwhelmed with numerous cases of COVID-19. The global response to this public health emergency varies because of different healthcare systems, policies, and resources available to countries.²⁻⁵ Oatar is a peninsula located amid the western coast of the Arabian Gulf. It is one of the world's wealthiest nations in terms of per capita gross domestic product and has a population of 2.7 million.⁶ Qatar launched a public health strategy and commissioned special hospitals and national guarantine sites for managing patients with COVID-19.⁷ Hospitals suspended non-urgent care and elective procedures, and healthcare workers were redeployed to COVID-19 facilities owing to the high demand at the time. This included physicians regardless of their specialty to meet the medical needs of patients with COVID-19. However, the literature on trainee redeployment during the current pandemic is scarce, mainly consisting of correspondence articles, with very little literature about psychiatrist trainee redeployment.^{8, 9} Psychiatrists at all levels of clinical training encounter patients with various physical health problems, ranging from chronic medical conditions to acute medical and surgical emergencies during their daily clinical practice.^{10,11} The Accreditation Council for Graduate Medical Education (ACGME) identifies the ability of psychiatrist trainees to perform a complete basic physical examination as a mandated core clinical competency. It also mandates psychiatrist trainees to be skillful in administering all diagnostic and therapeutic procedures considered essential in their clinical practice setting.¹² However, compared with other medical specialties, a proportion of mental healthcare professionals exhibits lower levels of self-perceived proficiency in managing physical health emergencies.¹³ Thus, this study aimed to gain insight into the attitude of psychiatrist trainees toward their foreseeable and established redeployment. This study also aimed to assess the readiness and preparedness

of psychiatrist trainees to manage physical health conditions that they might encounter during redeployment. The results can help in developing appropriate training interventions for any possible redeployment of psychiatrist trainees in the future, should the need arise.

METHODS

Setting, participants, and redeployment process

During the first wave of the pandemic in Qatar, multiple healthcare facilities were appointed as dedicated COVID-19 sites, including newly launched hospitals and upgraded general hospital wards.⁷ These were initiatives to boost the healthcare sector's inpatient and intensive care capacity to accommodate moderate and severe COVID-19 cases.

On March 31, 2020, the country's COVID-19 command center - System-Wide Incident Command Committee – notified the Department of Psychiatry, Hamad Medical Corporation (HMC), to nominate 50% of its trainees for potential redeployment to these new facilities to support the increased healthcare demands. The Department of Psychiatry in HMC has the only psychiatry residency program in Qatar, which is one of a handful of ACGE-International (ACGME-I)accredited graduate psychiatry training programs worldwide,¹⁴ and hosts the majority of fellowship programs in psychiatry in the country. Trainees who were pregnant, breastfeeding, or immune, or medically compromised were exempted from redeployment. Selected eligible trainees were notified of their imminent deployment to dedicated COVID-19 sites covering moderate and severe cases and were redeployed shortly afterward. Redeployment transpired in waves from April to June 2020.

A cross-sectional survey was circulated among psychiatrist trainees (residents and fellows) at the Department of Psychiatry, HMC, Qatar. The survey took place in May 2020, during the COVID-19 outbreak in Qatar, when doctors from different departments were being deployed to work at COVID-19 sites.

Instruments and data collection

A survey was adapted based on previous studies assessing the attitude, readiness, and preparedness of psychiatry and other noncritical care trainees and physicians-in-practice in managing acute medical emergencies.^{10,11,13,15,16}

Candidate survey items were extracted from these studies and adapted to our study context. Consequently, adapted items were incorporated into our survey based on a consensus between the authors, which was achieved through unstructured group discussions (via emails and online meetings).

An email was sent to the professional email addresses of all medical residents and fellows at the Department of Psychiatry. The survey was created using Microsoft Forms (Appendix 1). To optimize the participation rates, reminders were sent on a WhatsApp group dedicated to all psychiatrist trainees in Qatar.

The survey consisted of questions about the following:

- Medical and life support training (five questions)
- Experience in managing the most common medical emergencies (seven items) and in using and interpreting the most important emergency medicine diagnostic instruments (11 questions)
- Preparation for redeployment to COVID-19 sites (eight questions)
- Perceived confidence levels in managing medical emergencies (seven questions) and in using and interpreting the most important emergency medicine diagnostic instruments (11 questions)
- Rating of trainee's preparedness to be deployed to a COVID-19 site on a 5-point Likert scale.

Ethical Considerations

The study was considered a service evaluation project by the HMC Institutional Review Board (IRB) and was exempted from IRB approval (MPF-23-02-21). All necessary departmental approvals were obtained before commencing the study. The study was conducted in accordance with the World Medical Association Declaration of Helsinki.

Statistical Analysis

For each categorical variable, we calculated absolute and relative frequencies. Continuous data were presented as mean and standard deviation. Mean scores of the four major questionnaire subscales – frequency of encountering physical health problems and performing emergency clinical skills, in addition to the confidence in managing and practicing them – were calculated. The internal reliability of these subscales was evaluated using Cronbach's alpha coefficient, and values >0.7 were considered acceptable.^{17,18} The normality assumption of the data was examined using the Shapiro – Wilk test. Associations between categorical variables were examined using Fisher's exact test with *post hoc* Bonferroni's adjustment for multiple comparisons. Given the nonnormality of the data, continuous variables were compared using nonparametric tests by either the Mann – Whitney U test (comparison between two groups) or the Kruskal – Wallis H test with *post hoc* Dunn – Bonferroni pairwise comparison (comparison between more than two groups), respectively. Correlations between interval and ordinal data were evaluated using Pearson's (in case of normality) and Spearman's (in case of nonnormality) correlation coefficients.

All tests were two-tailed, with a significance level α set at 0.05. All statistical analyses were performed using IBM SPSS Statistics for Windows version 26 (IBM Corp., Armonk, NY, USA). Figures were generated using OriginPro version 2021 (OriginLab Corporation, Northampton, MA, USA).

RESULTS

The overall response rate was 88.9% (n = 40 of 45 psychiatry trainees). As shown in Table 1, 60% (n = 24) of the respondents were residents, whereas 40% (n = 16) were fellows. The survey shows acceptable internal reliability in the four major subscales, with Cronbach's alpha coefficient of 0.79 for the frequency of encountering physical health problems subscale, 0.79 for the frequency of performing emergency-related clinical skills subscale, 0.85 for the confidence in managing physical health issues subscale, and 0.85 for the confidence in performing emergency-related clinical skills subscale. The total internal reliability score of these subscales was 0.91.

The mean rating for the psychiatrist trainees' preparedness to be deployed in a COVID-19 site was 2.32, with a standard deviation of 1.14, on a scale of 1-5, with higher scores indicating better preparedness.

Most (87.5%, n = 35) of the psychiatrist trainees had less than 6 months of training in medicine over the past 5 years. Most (77.5%, n = 31) had completed an intermediate life support training in the past 5 years. Most of this training was conducted 1 and 5 years ago (Table 1).

Even though most psychiatrist trainees reported to commonly encounter patients with chronic medical conditions such as diabetes and hypertension, much

		n (%)
Level of clinical training	Resident PGY-1 Resident PGY-2 Resident PGY-3 Resident PGY-4 Clinical Fellow Year 1 Clinical Fellow Year 2 Clinical Fellow Year 3	7 (17.5%) 7 (17.5%) 4 (10.0%) 6 (15.0%) 6 (15.0%) 6 (15.0%) 4 (10.0%)
Time since last medical or surgical training	Never Within the last year 1 – 3 years ago 3 – 5 years ago > 5 years ago	0 (0.0%) 14 (35.0%) 7 (17.5%) 11 (27.5%) 8 (20.0%)
Length of last medical or surgical training during the past 5 years	None at all <1 month 1 – 3 months 3 – 6 months >6 months	6 (15.0%) 2 (5.0%) 17 (42.5%) 10 (25.0%) 5 (12.5%)
Type of life support training completed in the past 5 years	None Basic Intermediate Advanced	2 (5.0%) 2 (5.0%) 31 (77.5%) 5 (12.5%)
Time since last life support training, if had any	Within the last year 1 – 3 years ago 3 – 5 years ago > 5 years ago	7 (18.4%) 18 (47.4%) 12 (31.6%) 1 (2.6%)
Feeling about physical examination skills since starting work in psychiatry	Deteriorated Remained the same Improved No	26 (65.0%) 12 (30.0%) 2 (5.0%) 5 (12.5%)

Table [•]	1.	Previous	medical	training	of	psychiatrist	trainees
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less was reported about their experience with acute life-threatening medical conditions, such as respiratory distress, myocardial infarction, stroke, or loss of consciousness (Figure 1). Similarly, while most psychiatry trainees reported that they were commonly performing and interpreting basic laboratory tests and electrocardiography (ECG), most reported having no experience in managing airways, performing external cardiac compression, collecting arterial blood gases (ABG), or administering emergency drugs (Figure 1).

Around two-thirds of psychiatrist trainees (65%, n = 26) felt that their physical examination skills deteriorated since they started working in psychiatry

(Table 1). Half of the participants felt worried or anxious about being redeployed, whereas one-quarter felt ambivalent. Only 15% (n = 6) felt honored, excited, or enthusiastic about their redeployment to COVID-19 sites (Table 2).

Although more than half of the psychiatry trainees rated their confidence levels in managing chronic medical conditions such as diabetes and hypertension as moderate, their confidence levels in managing acute life-threatening medical conditions (such as myocardial infarction, stroke, or respiratory distress) were mostly low (Figure 1).

While many psychiatry trainees were moderately confident in performing a physical examination, inter-



Figure 1. (A) Psychiatrist trainees' frequency of encountering the most common medical emergencies and their perceived confidence levels in managing them. (B) Psychiatrist trainee's frequency of performing, using, and interpreting the most important emergency medicine diagnostic and therapeutic clinical skills and their perceived confidence levels in managing them.

	Table	2.	Preparation	for	deployment	to	COVID-19	sites
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		n (%)
Received inquiry from the residency program about	Yes	33 (82.5%)
their health status for readiness for redeployment	No	7 (17.5%)
Received training resources for management of	Yes	15 (37.5%)
COVID-19-related medical problems	No	11 (27.5%)
	l do not know	14 (35.0%)
Informed about expected duties in redeployment	Yes	12 (30.0%)
sites	No	28 (70.0%)
Received any COVID-19-related skills-based	Yes	5 (12.5%)
training in preparation for redeployment	No	35 (87.5%)
Awareness of the "Buddy Program" in preparation	Yes	0 (0.0%)
for COVID-19 redeployment	No	40 (100.0%)
Time first informed about the possibility	Within a week	11 (27.5%)
of being redeployed	Within a month	19 (47.5%)
	More than a month	10 (25.0%)
Feeling possible redeployment is well planned	Yes	18 (45.0%)
given the unprecedented circumstances	No	22 (55.0%)
Emotional state in anticipation of being redeployed	Ambivalent	10 (25.0%)
	Anxious or worried	20 (50.0%)
	Enthusiastic/excited	3 (7.5%)
	Honored	3 (7.5%)
	Uninterested	4 (10.0%)
	Angry	0 (0.0%)

preting basic laboratory tests, or analyzing an ECG, most reported having low confidence in airway management, cannulation, administration of emergency drugs, or collection and interpretation of ABG (Figure 1). Most (87.5%, n = 35) respondents shared that they should receive further deployment training (Table 1).

Table 3. Results of Fisher's exact test for associations between perceived need for further training and feelings toward redeployment with clinical training and redeployment-related factors

	Feel should	receive f	urther t	raining	Feelings to	ward redeploym	ent			
						Anxious or	Enthusiastic or			
		Yes	No		Ambivalent	worried	excited	Honored	Uninterested	
		(%) ц	(%) u	<i>p-</i> value	и (%) п	и (%) п	п (%)	(%) u	u (%)	<i>p-</i> value
Level of clinical	Resident Year 1	7 (17 E0/)	0	0.618	2 (5.0%)	4 (10.0%)	0 (0.0%)	1 (2.5%)	0 (0.0%)	0.551
n air iir g	Resident Year 2	(%C./T) 5 (1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	(0.0%) 2 (1.0%)		2 (5.0%)	2 (5.0%)	1 (2.5%)	2 (5.0%)	(%0.0) 0	
	Resident Year 3	(%C.21) 4 (%C.21)	(%0.c) 0		1 (2.5%)	3 (7.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%) (0	
	Resident Year 4	(10.0%) 6 71F 0%)	(%0.0) 0		2 (5.0%)	4 (10.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%) (0	
	Fellow Year 1	(%).(1).()%) 5 (1).()%)	(0.0%) 1 2 E		1 (2.5%)	3 (7.5%)	1 (2.5%)	0 (0.0%)	1 (2.5%)	
	Fellow Year 2	(12.3%) 5 (12.5%)	(%C.2) 1 (%C.2)		0 (0.0%)	2 (5.0%)	1 (2.5%)	0 (0.0%)	3 (7.5%)	
	Fellow Year 3	(%C.21) 3 (7.5%)	(%C.2) 1 (%3 C)		2 (5.0%)	2 (5.0%)	0 (0.0%)	0 (0.0%)	(%0.0) 0	
Time since the	Within the last	13 101 CC	(%C.2) 1 (%C.2)	0.687	3 (7.5%)	7 (17.5%)	1 (2.5%)	2 (5.0%)	1 (2.5%)	0.931
surgical training	year 1 – 3 years ago	(%C.2C) 6 745 00()	(%C.2) 1		2 (5.0%)	4 (10.0%)	0 (0.0%)	1 (2.5%)	0 (0.0%) (0	
	3–5 years ago	10 10	(%C.2) 1 (%3 C)		3 (7.5%)	5 (12.5%)	2 (5.0%)	0 (0.0%)	1 (2.5%)	
	> 5 years ago	(%0.cz) 6 (%0 = r)	(%C.2) 2 (%C.2)		2 (5.0%)	4 (10.0%)	0 (0.0%)	0 (0.0%)	2 (5.0%)	
Duration of the last	None at all	(%0.cl) 4	(%0.c) 2 (%0 =)	0.604	1 (2.5%)	2 (5.0%)	0 (0.0%)	0 (0.0%)	3 (7.5%)	0.289
training	< 1 month	2 (5.0%)	(%D.C)		0 (0.0%)	2 (5.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%) (0	
	1–3 months	15 ()7 EW)	(0.0%) 2 7E 0%)		5 (12.5%)	7 (17.5%)	3 (7.5%)	1 (2.5%)	1 (2.5%)	
	3–6 months	(%C:/C) 9 (M) (M)	(%0.c) 1 (%3 c)		4 (10.0%)	5 (12.5%)	0 (0.0%)	1 (2.5%)	0 (0.0%) (0	
	> 6 months	5 (17 EW)			0 (0.0%)	4 (10.0%)	0 (0.0%)	1 (2.5%)	0 (0.0%)	
Type of life support	None	(12.3%) 2 (5.0%)	(%)O:O)	0.742	0 (0.0%)	1 (2.5%)	0 (0.0%)	0 (0.0%)	1 (2.5%)	0.559
5 years	Basic	2 (5.0%)	(%,0,0) 0		0 (0.0%)	1 (2.5%)	1 (2.5%)	0 (0.0%)	0 (0.0%)	
	Intermediate	27 167 EW	4		9 (22.5%)	15 (37.5%)	2 (5.0%)	2 (5.0%)	3 (7.5%)	
	Advanced	(%, c. , v) 4 (10.0%)	(10.0%) 1 (2.5%)		1 (2.5%)	3 (7.5%)	0 (0.0%)	1 (2.5%)	0 (0.0%)	

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0.124				0.017			0.821			0.349		0.83			0.184		-		0.331		
1 (2.6%)	1 (2.6%)	1 (2.6%)	0 (0.0%)	1 (2.5%)	3 (7.5%)	0 (0.0%)	1 (2.5%)	3 (7.5%)	0 (0.0%)	0 (0.0%)	4 (10.0%)	2 (5.0%)	1 (2.5%)	1 (2.5%)	0 (0.0%)	4 (10.0%)	3 (7.5%)	1 (2.5%)	1 (2.5%)	3 (7.5%)	
1 (2.6%)	1 (2.6%)	1 (2.6%)	0 (0.0%)	2 (5.0%)	0 (0.0%)	1 (2.5%)	0 (0.0%)	2 (5.0%)	1 (2.5%)	1 (2.5%)	2 (5.0%)	1 (2.5%)	1 (2.5%)	1 (2.5%)	0 (0.0%)	3 (7.5%)	3 (7.5%)	0 (0.0%)	1 (2.5%)	2 (5.0%)	
0 (%0.0) 0	0 (0.0%)	3 (7.9%)	0 (0.0%)	2 (5.0%)	0 (0.0%)	1 (2.5%)	1 (2.5%)	2 (5.0%)	0 (0.0%)	2 (5.0%)	1 (2.5%)	0 (0.0%)	2 (5.0%)	1 (2.5%)	1 (2.5%)	2 (5.0%)	3 (7.5%)	0 (0.0%)	2 (5.0%)	1 (2.5%)	
1 (2.6%)	12 (31.6%)	5 (13.2%)	1 (2.6%)	12 (30.0%)	8 (20.0%)	0 (0.0%)	7 (17.5%)	7 (17.5%)	6 (15.0%)	5 (12.5%)	15 (37.5%)	9 (22.5%)	7 (17.5%)	4 (10.0%)	1(2.5%)	19 (47.5%)	16 (40.0%)	4 (10.0%)	7 (17.5%)	13 (32.5%)	
4 (10.5%)	4 (10.5%)	2 (5.3%)	0 (0.0%)	9 (22.5%)	1 (2.5%)	0 (0.0%)	2 (5.0%)	5 (12.5%)	3 (7.5%)	4 (10.0%)	6 (15.0%)	2 (5.0%)	4 (10.0%)	4 (10.0%)	3 (7.5%)	7 (17.5%)	8 (20.0%)	2 (5.0%)	7 (17.5%)	3 (7.5%)	
0.859	_			-	6		0.025 6)			0.149		0.194			0.507		0.565		0.155	(0)	
1	ж Э С С С С С С С С С С С С С С С С С С	(7.9%) 1 (7.6%)	(%)0.7) (%)0.7)	4		(%C.7) 0	4 (10.0)	1 (2.5%)	00%	3 7 E 02	2 2 (FE 0%)	Э.С.У Э.С.У (Д. Г. (У)		2 (5.0%)	1 () 5%)	4 (10.09	5 (1 2 5%	0	4	(10.07 1 (2.5%)	
6 (1 F 00/)	(%8.c1) 15 (%3.cc)	(%C.95) 11 (%080)	(2.6%) 1 (2.6%)	22 (55.0%)	11 11 13	(2.0%) 2 (5.0%)	7 (17.5%)	18 (45.0%)	10 (25.0%)	9 (77 E 02)	26 26 26	11 17 5%)	15 15 17 EQU	(% C: / C) 9 (%2 (C)	4 (10.0%)	31 (77.5%)	28 (70.0%)	7 (17.5%)	14	(32:0%) 21 (52:5%)	0.05
Within the last	year 1 – 3 years ago	3–5 years ago	> 5 years ago	Deteriorated	Remained the	Improved	Within a week	Within a month	More than a month	Yes	No	l do not know	Yes	No	Yes	No	Yes	No	Yes	No	ignificance at p <
Time of the last life	support training			Perception of physical	since starting	рэустану панту	Time first informed of the possibility of beina redeploved			Informed about	redeployment sites	Received	training resources		Received COVID-19-related	skill-based training	Program inquired	health status	Feeling that	trielr possible redeployment was well planned	Bold p values denote s

As presented in Table 3, a significant association was identified between feelings toward redeployment and perception of the effect of psychiatric training on physical examination skills (p = 0.017, Fisher's exact test). However, the post hoc analysis showed no significant differences between the comparison groups. Furthermore, a significant association was noted between perceiving a need for further training before redeployment and the time of being informed about the possibility of redeployment (p = 0.025, Fisher's exact test), with pairwise group analysis showing that only those who were informed within a week of their potential redeployment were significantly more likely to report feeling a need for further training than not (n = 7, 17.5% vs. n = 4, 10.0%)Bonferroni adjusted p = 0.005).

Table 4 illustrates the associations of trainees' preparedness ratings for redeployment with training and redeployment-related factors. As illustrated, the level of clinical training was significantly associated with the preparedness ratings of trainees (H = 13.734, df = 6, p = 0.033). Nonetheless, *post hoc* adjusted comparisons revealed no significant differences in preparedness ratings across the different clinical groups.

Moreover, the time of the last medical/surgical training was significantly associated with the trainee's ratings of redeployment preparedness (H = 9.619, df = 3, p = 0.022). Adjusted pairwise comparisons showed that only those who had completed medical/ surgical training 3-5 years earlier had significantly higher preparedness ratings than those who completed training >5 years ago (mean rank, 26.55 vs. 11.19, Dunn – Bonferroni adjusted p = 0.016). Additionally, the duration of the last medical/surgical training was significantly associated with redeployment preparedness ratings (H = 15.577, df = 4, p = 0.004). However, post hoc adjusted comparisons revealed that only those who had 3-6 months of medical/surgical training during the past 5 years had significantly higher redeployment preparedness ratings than those who did not have any such training during the same period (mean rank, 27.70 vs. 9.08,

Furthermore, higher redeployment preparedness ratings were significantly associated with being informed in advance about their expected duties (mean rank, 28.54 vs. 17.05, U = 71.5, p = 0.003) and when redeployment was perceived to be well

Dunn – Bonferroni adjusted p = 0.011).

planned (mean rank, 24.81 vs. 16.98, U = 120.5, p = 0.026).

No significant associations were noted among the remaining training and redeployment-related variables, preparedness ratings, perceived need for further training, or feelings toward redeployment (Tables 3 and 4).

Tables 5 – 7 present the correlation matrices evaluating linear relationships among trainees' clinical practices, their training, and various redeploymentrelated factors.

Overall, a significant direct correlation existed between the frequency of encountering physical health emergencies and the confidence in managing most of them (Spearman's correlation, p < 0.05) (Table 5). Similarly, a significant positive correlation was noted between the frequency of performing emergency-related clinical skills and the confidence in performing them (Table 6).

As displayed in Table 7, Spearman's correlation showed a significant inverse relationship between trainee's clinical level and the time elapsed since their last medical/surgical training with the frequency of encountering emergency physical health problems and performing emergency-related skills and with their confidence in performing emergency-related skills (p < 0.01). Only the duration of trainees' last medical/surgical training was significantly positively correlated with their preparedness ratings ($r_s = 0.34$, p < 0.05) (Table 7).

DISCUSSION

In this survey about the attitude and preparedness of psychiatrist trainees in Qatar toward their redeployment to COVID-19 sites, most trainees believed that they were moderately prepared. Postgraduate medical training programs are increasingly focused on specialty; as a consequence, trainees exhibit lower levels of proficiency in managing physical health conditions. It was not surprising that most trainees reported being comfortable dealing with chronic medical conditions, but less so with acute life-threatening medical conditions. Psychiatrist trainees manage general health conditions commonly found in populations with mental illness and pursue a referral to appropriate medical care for medical emergencies because they encounter these conditions less frequently than routine conditions. Psychiatrist trainees are well versed with the medical manageTable 4. Results of nonparametric tests (Mann–Whitney U and Kruskal–Wallis tests) for association between ratings of preparedness to redeployments to COVID-19 sites with clinical training and redeployment-related factors

	Rating of preparedr	ness t	o be deployed t	o COVIE	0-19 sites	
				Mean		
		n	Mean ± SD	rank	H*/U**	<i>p</i> -value
Level of clinical	Resident Year 1	7	1.71 ± 0.95	14.57	13.734*	0.033
training	Resident Year 2	7	3.43 ± 0.98	30.64		
	Resident Year 3	4	2.5 ± 1	22.5		
	Resident Year 4	6	2.83 ± 0.98	25.83		
	Fellow Year 1	6	2.33 ± 1.21	20.75		
	Fellow Year 2	6	1.5 ± 0.84	12.42		
	Fellow Year 3	4	1.75 ± 0.96	14.88		
Time since the	Within the last year	14	2.21 ± 1.05	19.57	9.619*	0.022
last medical or	1–3 years ago	7	2.71 ± 1.50	23.5		
surgical training	3–5 years ago	11	2.91 ± 0.83	26.55		
	>5 years ago	8	1.38 ± 0.74	11.19		
Duration of the last	None at all	6	1.17 ± 0.41	9.08	15.577*	0.004
medical or	Less than 1 month	2	1 ± 0	7.5		
surgical training	1–3 months	17	2.59 ± 0.94	23.29		
	3–6 months	10	3.1 ± 1.10	27.7		
	>6 months	5	1.8 ± 1.10	15.5		
Type of life support	None	2	1 ± 0	7.5	3.351*	0.341
training in the	Basic	2	2 ± 1.41	17.5		
past 5 years	Intermediate	31	2.39 ± 1.15	21.06		
	Advanced	5	2.6 ± 1.14	23.4		
Time of the last	Within the last year	7	2.29 ± 0.95	18.57	1.997*	0.573
life support	1–3 years ago	18	2.39 ± 1.34	19.31		
training	3–5 years ago	12	2.58 ± 0.9	21.42		
	>5 years ago	1	1	6.5		
Perception of physical	Deteriorated	26	2.38 ± 1.13	21.31	1.783*	0.41
examination skills since	Remained the same	12	2.08 ± 1.24	17.58		
starting psychiatry	Improved	2	3.00 ± 0	27.5		
training						
lime first informed of	Within a week	11	2.18 ± 1.33	19.23	0.23/*	0.888
the possibility of	Within a month	19	2.42 ± 1.17	21.26		
being redeployed	More than a month	10	2.3 ± 0.95	20.45	74 5	0.000
Informed about expected duties	Yes	12	$3.1/\pm 1.19$	28.54	/1.5**	0.003
in redeployment sites	No	28	1.96 ± 0.922	17.05	50404	0.07
Received	l do not know	14	1.93 ± 1.21	16.75	5.313*	0.07
COVID-19-related	Yes	15	2.87 ± 0.99	25.63		
training resources	No	11	2.09 ± 1.04	18.27	C2 E0	0.070
Received COVID-19-related	Yes	5	2.80 ± 1.10	25.5	62.50**	0.279
skill-based training	No	35	2.26 ± 1.15	19.8	C 4 E	0.054
Program inquired about their	Yes	33	2.48 ± 1.12	22.05	64.5**	0.054
nealth status	INO	/	$1.5/\pm 0.98$	13.21	100 5	0.020
Feeling that their possible	Yes	18	2.78 ± 1.22	24.81	120.5**	0.026
redeployment was well planned	NO	22	1.95 ± 0.95	16.98		

* Kruskal – Wallis H statistic ** Mann – Whitney U statistic

Bold *p* values denote significance at p < 0.05

ms	16 17	* ~ ~ ~	req.RD, frequency of frequency of g hypertension; Conf. managing myocardial r responses assessing
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Redeployment of psychiatrist trainees during the COVID-19 pandemic: evaluation of attitude and preparedness

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Conf(24. Wredi.Skiis40°°°.20°20°20°20°40°°.40°°.40°	Wean.Skills .48**03 .70** .33* .26 .37* .22 .38* .40* .46** .47** .62**(.64** .2	.24 .68	3** .62*	** .67*>	ب 69 * *	.65**	.71**	54** .75	*09` **!	.*	
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				3		5	6		8	9	10		
1.	Lvl.Train	1											
2.	When.Last.Train	.79**	1										
3.	Duration.Last.Train	52**	44 **	1									
4.	LS.Type	26	29	.39*	1								
5.	LS.When	.27	.09	.34*	04	1							
6.	Feel.PhEx	14	23	.15	.04	.16	1						
7.	When.Redep	37*	35*	.38*	.29	.11	.12	1					
8.	Mean.Health.Freq	46**	43**	.23	.24	16	.18	.18	1				
9.	Mean.Skills.Freq	53**	48**	.27	.23	19	.17	.41**	.57**�	1			
10.	Mean.Health.Conf	18	09	08	.02	16	08	.07	.53**	.34*	1		
11.	Mean.Skills.Conf	51**	36*	.28	.32*	21	01	.25	.53**�	.62**�	.58**	1	
12.	Rate.Redep.Prep	2	13	.34*	.23	.04	07	.04	.02	.1	.13	.3	1

Table 7. Combined Pearson's and Spearman's correlation matrix for the training-related and redeployment-related variables

Pearson correlation

** Correlation is significant at the 0.01 level (two-tailed).

* Correlation is significant at the 0.05 level (two-tailed).

Abbreviations: Lvl.Train, level of training; When.Last.Train, time of their last medical or surgical training; Duration.Last.Train, duration of their last medical or surgical training; Duration.Last.Train, duration of their last medical or surgical training; Duration.Last.Train, duration of their last medical or surgical training; Teel.PhEx, feeling about their physical examinations skills since enrolling in psychiatry training; When.Redep, time when they were first informed about the possibility of being redeployed; Mean.Health.Freq, mean score for the frequency of encountering physical health problems; Mean.Skills.Freq, mean score of the frequency of performing emergency medicine-related clinical skills; Rate.Redep.Prep, rating of preparedness for redeployment to a COVID-19 site.

Note: All correlation values shown in the table were obtained using Spearman's correlation except those labeled with diamond superscript

ment of patients in both inpatient and outpatient settings. They frequently encounter diabetes and hypertension cases in addition to performing and interpreting basic laboratory tests and ECGs. Half of the trainees felt moderately confident in managing chronic medical conditions. By contrast, trainees' confidence in managing life-threatening medical conditions was low, and they reported little to no hands-on experience. These figures are in line with the evidence highlighting the limitations and challenges psychiatrist trainees face in managing emergent physical health problems compared with trainees from other acute and nonacute specialties.^{13,19-21} Half of the psychiatrist trainees reported feeling worried or anxious about their redeployment to COVID-19 sites, and most felt the need for more training before redeployment. These redeploymentrelated worries and concerns accorded with published reports of the emotional stance of trainees from other nonacute specialties toward their redeployment to COVID-19 frontlines, including trainees from dermatology,²² ophthalmology,^{23–25} otolaryngol-ogy,^{26,27} and radiology.²⁸

Our analysis identified a significant association of the clinical level of trainees with the ratings of redeployment preparedness; however, a *post hoc*

comparison failed to detect a significant association possibly because of a type 2 error given the small sample size. Likewise, a nonsignificant inverse correlation was noted between the advancing level of training and preparedness ratings. These findings can be explained by the higher exposure of early-stage psychiatrist trainees to physical health problems, especially during their first 2 years of training, compared with more senior trainees; since psychiatry residents are required by ACGME-I to complete rotations in various medical/surgical subspecialties during their first 2 years of training.²⁹ This possibility is supported by other findings from this paper. First, higher preparedness ratings were significantly associated with the time and duration of the last medical/surgical training. Second, advancing level of training was significantly inversely correlated with the frequency of exposure to physical health problems, and the frequency of practicing emergency medicinerelated clinical skills and the perceived confidence in performing them.

These results are consistent with existing literature reporting higher confidence in assessing and managing medical emergencies among psychiatrist trainees than among consultant psychiatrists, which was attributed to the lack of learning opportunities.³⁰ Furthermore,

there are reports of perceived deterioration of physical examination skills among psychiatrists at various levels of training since working in the field.³¹

Surprisingly, the level of redeployment preparedness or feelings toward redeployment were not significantly associated with the frequency of exposure to or confidence in managing physical health emergencies or the frequency of practicing or confidence in performing emergency medicine skills. Similarly, redeployment preparedness ratings or feelings toward redeployment was not significantly associated with the type or time since the last life support training or receiving any COVID-19-related training. Further research can determine whether this is due to the small sample size, quality of life support, or COVID-19-related training received.

To the best of our knowledge, no studies have examined the preparedness of psychiatrist trainees per se and their attitudes toward redeployment; nonetheless, we came across a study that examined the experience of redeployed physicians in training from different specialties. There have been reports about physicians in training in both Canada and France, in whom better training before redeployment was associated with better psychological outcomes.^{32,33} Residents in Canada reported dissatisfaction when they were given short notice before being redeployed, when they were not offered adequate orientation, and when they perceived gaps between what they were trained to do and the requirement of COVID-19 cases.³² Likewise, a survey sent to urology residents in training at 15 different departments in France revealed that "being welltrained" had a protective effect on resident burnout during the pandemic.³³ Our study shares similar findings, as the importance of planning redeployment was also reflected in the association of the level of redeployment preparedness with being informed in advance about expected duties and when deployment is perceived as well planned.

Besides being trained or not, residents who chose voluntarily to be redeployed felt safer and more confident.^{34,35} The hours spent at work were also taken considered when redeploying residents. At the New York – Presbyterian/Columbia University Irving Medical Center, residents certainly did not exceed their maximum number of working hours. Despite the potential risk to expose more personnel to the virus, the work duration was prioritized to prevent burnout of residents and improve patient care.⁸ Various

considerations were undertaken to avoid work-related stress and burnout among redeployed trainees in our study. Trainees' typical working schedule, in most of the frontline sites in Qatar, was reduced to 8 h a day with 1 day off per week, averaging 48 working hours per week, which is nearly half of the maximum regular weekly working hours per the ACGME standards of psychiatry training programs.¹² Furthermore, redeployed trainees were exempted from on-call duties and other after-hours clinical or healthcare-related activities during their redeployment period.

In Singapore, physicians in training redeployed to the disease epicenter were asked to rate the level of stress they experienced during redeployment and their level of resilience on a scale of 0-10, and the mean levels were 4.7 and 7.52, respectively. Interestingly, family medicine residents were the most stressed, reporting an average rating of $8.3/10.^{36}$ Although these results cannot be generalized, it could be argued that residents who are used to the fast-paced work in emergency settings were less stressed than residents who usually work in less acute settings.

A few studies have examined the challenges faced by residents who originally worked in non-urgent settings before being relocated to help at COVID-19 sites, as well as the different strategies followed to overcome these challenges. In the Head & Neck Clinics in Lombardy, Italy, as the need for more medical personnel increased, head and neck specialists, given their little training in infectious diseases, joined the treating teams as junior doctors after being provided with brief COVID-19 training.³⁷ In New York, psychiatry residents were redeployed at New York -Presbyterian/Columbia University Irving Medical Center preferentially to intensive care units, to allow for closer supervision compared with working in the emergency department or in the wards.⁸ Another example of effective use of psychiatrist trainees during the COVID-19 pandemic was the same as that implemented by the New York - Presbyterian Columbia University Irving Medical Center where psychiatrist trainees participated in a psychiatry - palliative care liaison team. In this initiative, trainees provided compassionate end-of-life care.³⁸ Some surgeons conquered the new challenges practically by taking small steps toward better management of acute emergencies. They started with collecting ABGs and placing nasogastric tubes, and they moved up the ladder to fulfill more challenging tasks. Their team effort was essential to their wellbeing individually.34,35

The realization that they were part of a bigger medical body helped them focus on the job at hand. In New York City, orthopedic surgeons explained that despite being out of their comfort zone, the majority was involved in COVID-19 teams. To prevent crosscontamination, they made sure to keep the department and COVID-19 teams separate. To maintain their mental wellbeing and support systems during this unprecedented time, they remained connected through online meetings.³⁹ This also created a safe space for information dissemination and sharing of experiences for trainees and others.⁹ Regarding our trainees, various measures were put in place to ensure trainees' psychological wellbeing during their redeployment period. The Outreach Staff Support Service, a division of Qatar's National Mental Health Helpline Service, was established during the first wave of the pandemic to proactively provide telecounseling services to frontline healthcare professionals, including redeployed trainees. This service is run by an interdisciplinary team of mental health professionals adopting the WHO mental health and psychosocial support recommendations amid the COVID-19 pandemic.⁴⁰ Additionally, frontline healthcare workers, including redeployed trainees, had direct access to staff support clinics hosted in COVID-19 sites.^{7,41}) Moreover, structural modifications were made to their working structure. Redeployed trainees functioned as a part of interdisciplinary teams composed of 4-5 trainees redeployed from various medical and surgical specialties and led by a senior clinician. This new structure has the potential of enhancing trainees' integration into their new roles and reducing their alienation while redeployed from their original training sites.

Strengths and limitations

To the best of our knowledge, this study is the first to examine the attitude and preparedness of psychiatrist trainees in Qatar toward redeployment during the COVID-19 pandemic. It involved all psychiatry residents and fellows, and the response rate was high (88.9%). However, our sample size was relatively small, and the possibility of a type 2 error cannot be ruled out. Our survey demonstrated high levels of internal consistency. Nevertheless, since this study was based on self-reported information, the findings are subject to response bias. The survey was also created for this study following a consensus among authors, but it was not formally pre-piloted or prevalidated before distribution to trainees. Finally, this study examined the attitudes of residents and fellows in Qatar, and the findings might not be generalizable to other countries with different health systems.

CONCLUSION

COVID-19 took the world by storm and called for the healthcare systems to take unprecedented actions in response to its spread.⁴² Shortage of medical personnel and high demand in COVID-19-related clinical areas necessitated redeployment of trainees from different specialties. The prospect of working outside the usual scope of practice and environment is bound to raise feelings of anxiety. Experience from Qatar's response during the pandemic includes the novel provision of anonymous helpline services with an adjunct medical staff outreach program, in addition to staff support clinics in all COVID-19 hospitals. Additionally, providing redeployed trainees with flexible, on-call-free working schedules while engaging them as members of multidisciplinary teams helps prevent their exhaustion. Recommendations based on examples from our own and other specialties include the provision of enough notice and skills training before redeployment. We recommend deploying psychiatrist trainees to noncritical medical areas where they can contribute to the general medical care as well as to psychiatry – palliative care of patients. Once redeployed, local induction and working in teams with appropriate supervision can be helpful. Allocating "buddies" with trainees already part of the team can provide further peer support and ensure COVID-19 competency through online training.⁴³ Additionally, creating a safe environment, such as online platforms, for residents and fellows to share their experiences might be beneficial.

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Appendix 1: Study survey

Attitude and Preparedness of Psychiatrist Trainees Toward Redeployment to COVID-19 Sites

Consent

You are invited to participate in an anonymous trainee-led survey determining trainees' perceptions toward redeployment to COVID-19 sites. Do you consent on your results being utilized for research and quality improvement purposes?

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Training data and frequency of encountering physical health problems and performing emergency-related clinical skills

1. Please select your level of training Resident PGY-1 □ Resident PGY-2 □

Yes □ No □

Resident PGY-3 🗆	7
Resident PGY-4 🗆	
Clinical Fellow Year 1 🗆	
Clinical Fellow Year 2 🗆	
Clinical Fellow Year 3 🗆	
 During your psychiatry training, when was your last training in general medical services (i.e., internal medicine, family medicine, or emergency medicine)? Within the last year □ 	
$1 - 3$ years and \square	
3-5 years ago	
>5 years ago \Box	
Never 🗆	
3. During the past 5 years, how long did your training in general medical services last?	
None at all 🗆	
$<$ 1 month \Box	
$1-3$ months \Box	
$3-6$ months \Box	
$>$ 6 months \Box	
 Please choose any life support training, if any, that you have done in the past 5 years 	
ILS 🗆	
BLS 🗆	
ACLS 🗆	
Other 🗆	
None 🗆	
5. If you have had life support training, when did you have it?	
Within the last year \square	
1 2 years ago \square	

- 5.
 - 1−3 years ago 🗆
 - 3−5 years ago □
 - > 5 years ago \Box
- 6. How regularly do you encounter the following medical issues in your psychiatry training?

	Never	A few times a year	A few times a month	A few times a week	Daily
HTN					
DM					
Seizures					
Respiratory distress					
MI/cardiac arrest					
Stroke					
Altered/ loss of					
consciousness					

7. How regularly do you perform the following skills?

		A few times a	A few times a	A few times a	
	Never	year	month	week	Dally
Physical examination					
Cannulation ECG rhythm rccognition					
External cardiac compression					
Airway management					
Management of IV fluids					
Proper use of PPE					
Scrubbing/ disinfection					
Administering emergency drugs					
ABG collection and interpretation					
Interpreting basic lab results					

8. Since starting work in psychiatry, have you felt that your physical examination skills

improved? \Box

remained the same? \Box deteriorated? \Box

Redeployment questions

- 9. Has your psychiatry program inquired about your health status for readiness to be deployed?
 - Yes 🗆

- 10. Has your psychiatry program sent you any resource for management of COVID-19-related patients/medical problems?
 - Yes 🗆

No 🗆

- I do not know \Box
- 11. Has the organization informed you about your expected duties in the site you could be redeployed to?
 - Yes 🗆
 - No 🗆

No 🗆

12. Have you had any skills-based training in preparation for COVID-19-related deployment?

Yes 🗆

No 🗆

13. Are you aware of the "Buddy Program" in preparation for COVID redeployment? Yes □

No 🗆

- 14. When were you first informed about the possibility of being redeployed?

Within a week of being deployed \Box

Within a month of being deployed \Box

More than a month from being deployed \Box

- 15. Do you feel your possible redeployment is well planned given the unprecedented circumstances?
 - Yes 🗆

```
No 🗆
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 What is/was your emotional state in anticipation of being redeployed? Enthusiastic/excited □

Ambivalent
Anxious/worried
Angry

Uninterested 🗆

Honored 🗆

Confidence in managing medical emergencies and performing emergency-related clinical skills

- 17. Please rate your confidence level to manage the following medical issues
 - *High: with minimal or no supervision
 - *Moderate: with some supervision
 - *Low: with thorough supervision



- 18. Please rate your confidence level in performing the following skills
 - *High: with minimal or no supervision
 - *Moderate: with some supervision
 - *Low: with thorough supervision

	Low	Moderate	High
Physical examination			
Cannulation ECG rhythm			
recognition External cardiac			
compression Airway			
Management of			
Proper use of			
Scrubbing/ disinfection			
Administering emergency			
drugs ABG collection and			
Interpreting basic lab results			

- 19. Please rate your preparedness to be deployed to a COVID-19 site
 - 1: Least prepared
 - 2: Most prepared



20. Do you feel that you should receive further training before being deployed?

Yes □ No □