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# THE ASSESSMENT OF PSYCHOLOGICAL DISTRESS AND ACTIVITIES OF DAILY LIVES AMONG RECOVERED NURSES FROM COVID-19 IN PUNJAB, PAKISTAN

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#### **Abstract**

**Objective:** To determine the relationship between psychological consequences and daily living activities among recovered nurses from COVID-19 in the Jinnah Hospital of Lahore, the study aimed to assess psychological consequences, including depression (disorder and generalized anxiety disorder), and daily living activities among these nurses.

**Methods:** The current study's descriptive correlation design revealed that, between October 10, 2022, and March 20, 2023. A suitable sample of 143 nurses who recovered from COVID-19 was utilized in the study. The study's instruments were chosen and adjusted specifically for this investigation.

**Results:** The study found that among recovered nurses from COVID-19, over half (53.1%) had moderate depression disorders, roughly one-third (30.9%) complained of generalized anxiety disorders, and the majority (93%) of recovered nurses from COVID-19 reported being able to perform their daily activities well.

**Conclusion:** The findings can be concluded that among recovered COVID-19 nurses, there was a negative, highly significant correlation between generalized anxiety disorder and daily living activities at P-value  $\leq 0.05$  and between depression disorder and daily living activities at P-value  $\leq 0.05$ .

Keywords: Nurses, COVID-19, Psychological Distress, Activities of Daily Lives

## Introduction

Nurses play an important part of the healthcare system. Studies have not yet been concluded, nevertheless, on the effects of years spent on nursing and mental health on low work potential in

nurses during the COVID-19 crisis. Compared to other healthcare professionals, nurses were among the first responders with the biggest psychological impact during the COVID-19 pandemic. A direct influence was present. There was a somewhat favorable correlation between anxiety, depression, and job impairment (Razon, S. & Tokac, U., 2021).

Rehabilitation measures are necessary for COVID-19-affected recovered nurses. Even after receiving physical therapy, nurses may experience poor physical performance. COVID-19 puts a strain on the healthcare professional, the patient's family, and friends in addition to having negative effects on the patient's independence and engagement. After being admitted to the hospital, multi-ill nurses affected by COVID-19 would either recover slowly or not at all (Belli, S. et al.2020). Many clinical staff members who were able to contain the virus and remove their ventilators may face long-term physical, emotional, and psychological issues, such as depression, anxiety disorders, job loss, difficulty performing daily tasks like eating and bathing, and cognitive deficits akin to Alzheimer's disease, a year after leaving the intensive care unit, according to multiple studies (Johnson, C.Y., & Cha, A.E.2020).

## **Research Objective**

The study aimed to assess psychological consequences, including depression (disorder and generalized anxiety disorder), and daily living activities among recovered nurses from COVID-19 in the Jinnah Hospital and to find out the relationship between psychological consequences and daily living activities among recovered nurses from COVID-19 in the Public Hospitals of Lahore

#### Method

To determine the prevalence of psychological consequences, such as depression and anxiety disorders, and daily living activities among recovered nurses from COVID-19, a descriptive correlation design study was conducted between October 28, 2022, and May 15, 2023, in educational within the Jinnah Hospital of Lahore, Punjab. Additionally, the study sought to determine any relationships that may exist between psychological consequences and daily living activities among these recovered nurses.

Activities of Daily Living (ADLs), Generalized Anxiety Disorder Scale (GAD-7), and Patient's Health Questionnaire (PHQ-9). Through the use of statistical techniques, both inferential and descriptive, SPSS version 25.0 was utilized to evaluate the data. Using the mean of the score law, the researcher divided the cut-off points for the scales utilized.

This is the most important portion of the research, and it started the sample collection process on December 14, 2022, with ethical considerations in mind. The researchers received the first approval from the Ethical Committee of the concerned Public Hospital.

Lastly, the nurses' informed agreement to participate in this study was obtained before data collection and questionnaire completion. The subject is informed by the researcher that their information will be kept completely private and used just for study. Written and completed informed consent forms were provided. To concur or differ before the nurse completes the survey.

#### **Results**

**Table 1.** Descriptive analysis of Depression disorder items among recovered nurses from COVID-19 (PHQ-9)

Items	Responses	F	%	M	SD	Asses
	Not at all	53	37.1		1.35	
	Nearly every day	12	8.4			
Little interest or pleasure in doing things	More than half the days	18	12.6	2.59		Mode rate
	Several days	60	42.0			
	Total	143	100.0			

Nearly every day			I		I	1	
Feeling down, depressed, or hopeless		Not at all	42	29.4			
Nopeless   Gays   Several days   S				12.6			
Several days	Feeling down, depressed, or	More than half the	28	19.6	2 67	1 26	Mode
Total	hopeless	days	-	-	2.07	1.20	rate
Not at all   Nearly every day   28   19.6   Not at all   11.2   Not at all   Several days   45   31.5   Nearly every day   23   16.1   Not at all   31   21.7   Nearly every day   23   16.1   Not at all   47   32.9   Not at all   47   32.9   Not at all   143   100.0   Not at all   143   100.0   Not at all   143   100.0   Not at all   144   Not at all   110   Not at all   110   76.9   Not at all   143   100.0   Not at all   110   76.9   Not at all   110   76.9   Not at all   110   76.9   Not at all   110   Not at all   1		Several days	55	38.5			
Nearly every day days   10   10   10   10   10   10   10   1		Total	143	100.0			
Trouble falling or staying a sleep, or sleeping too much   Several days   Sever		Not at all	54	37.8			
Several days		Nearly every day	28	19.6			
Several days	Trouble falling or staying a	More than half the	16	11.2	2 36	1 27	Mode
Felling tired or having little energy	sleep, or sleeping too much	days			2.30	1.27	rate
Not at all   31   21.7   Nearly every day   23   16.1   More than half the days   Several days		Several days	45	31.5			
Nearly every day		Total 143 100.0					
Poor appetite or overeating   Several days   Seve		Not at all	31	21.7			
Poor appetite or overeating   Poor		Nearly every day 23 16.1					
Poor appetite or overeating   Several days   Several days   Not at all   143   100.0	Felling tired or having little	More than half the	38	26.6	2.76	1 15	Mode
Total   143   100.0   Not at all   47   32.9   Nearly every day   23   16.1   More than half the days   Several days   48   33.6   Total   143   100.0   Not at all   110   76.9   Nearly every day   4   2.8   More than half the days   Several days   17   11.9   Total   143   100.0   Not at all   100.0   Not at all   110   76.9   Nearly every day   4   2.8   More than half the days   Several days   17   11.9   Total   143   100.0   Not at all   75   52.4   Nearly every day   14   9.8   More than half the days   Several days   34   23.8   Total   143   100.0   Not at all   143   100	energy	days			2.76	1.15	rate
Not at all   47   32.9   Nearly every day   23   16.1   More than half the days   25   17.5   2.52   1.26   Mode rate		Several days	51	35.7			
Nearly every day		Total	143	100.0			
Poor appetite or overeating More than half the days Several days 48 33.6 Total 143 100.0  Feeling bad about yourself or that you are a failure or have let yourself or your family down  Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days 12 8.4 1.55 1.06  Nearly every day 17 11.9  Total 143 100.0  Not at all 75 52.4  Nearly every day 14 9.8  More than half the days 20 14.0  Several days 34 23.8  Total 143 100.0  More than half the days 20 14.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 20 14.0  Several days 29 20.3  Total 143 100.0  More than half the days 29 20.3  Total 143 100.0  More than half the days 20 14.0  Several days 29 20.3  Total 143 100.0  More than half the days 20 14.0  Several days 30 14.0  More than half the days 30 14.0  Several days 30 14.0  Nearly every day 14 9.8  More than half the days 30 14.0  Nearly every day 14 9.8  More than half the days 30 14.0  Nearly every day 15 9.1  More than half the days 30 14.0  Several days 30 14.0  Nearly every day 40		Not at all	47	32.9			
Poor appetite or overeating days Several days 48 33.6 Total 143 100.0  Not at all 110 76.9 Not at all 100.0  Not at all 110 76.9 Not at all 43 100.0  Not at all 110 76.9 Several days 17 11.9 Total 143 100.0  Not at all 75 52.4 Nearly every day 14 9.8 More than half the days several days 17 11.9 Total 143 100.0  Not at all 75 52.4 Nearly every day 14 9.8 More than half the days several days 17 10.0  Not at all 75 52.4 Nearly every day 14 9.8 More than half the days several days 20 14.0 Several days 34 23.8 Total 143 100.0  Moving or speaking so slowly that other people could have noticed ? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days Several days 29 20.3 Not at all 143 100.0  Not at all 143 100.0  Not at all 143 100.0  Not at all 81 56.6 Nearly every day 13 9.1 More than half the days Several days 29 20.3 Total 14.0 Not at all 143 100.0  Not at all 143 100.0  Not at all 143 100.0  Not at all 81 56.6 Nearly every day 14 9.8 Nearly every day 15 9.1 More than half the days Several days 29 20.3 Total 14.0 Not at all 14.0 Nearly every day 14.0 Not at all 14.0 Nearly every day 15 9.1 Not at all 150.0 Not at all 160.0 Not at all	Poor appetite or overeating	Nearly every day	23	16.1			
Several days   48   33.6   Total   143   100.0   Not at all   110   76.9		1 25		17.5	2.52	1.26	
Total   143   100.0			48	33.6			
Not at all   110   76.9   Nearly every day   4   2.8   More than half the days   17   11.9   Total   143   100.0		•					
Nearly every day   4   2.8   More than half the days   17   11.9							
More than half the days Several days 17 11.9  Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days 11 11.9  Nearly every day 12 14.0  Nearly every day 14 9.8  More than half the days 34 23.8  Total 143 100.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 29 20.3  Total 143 100.0  Not at all 120 83.9  Nearly every day 6 4.2  More than half the days 9 6.3							
have let yourself or your family down  Several days  Total  Total  Touble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way    Augys   12					1.55	1.06	
Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Several days  Not at all  All 143 100.0  Not at all  B1 56.6  Nearly every day  Not at all  B1 56.6  Nearly every day  Not at all  B1 56.6  Nearly every day  Total  Not at all  B1 56.6  Nearly every day  Total  Not at all  Total  Not at all  Not at all  Total  Not at all  Several days  Several	•			8.4			Low
Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Total 143 100.0  More than half the days 34 23.8  Total 143 100.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 20 14.0  Several days 20 14.0  Total 143 100.0  Not at all 140 1.98  Several days 29 20.3  Total 140 1.98  Not at all 140 1.98  Not at all 140 1.98  Not at all 140 1.98  Several days 29 20.3  Total 140 1.98  Not at all 140 1.98  Not at all 140 1.98  Not at all 140 1.98  Several days 29 20.3  Total 140 1.98  Not at all 1.20  N	· ·		17	11.9			
Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Not at all 75 52.4  Nearly every day 14 9.8  More than half the days 34 23.8  Total 143 100.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 20 14.0  Several days 29 20.3  Total 143 100.0  Not at all 120 83.9 1.34 .84 Low  Nearly every day 6 4.2  More than half the days  Several days 9 6.3	down		143	100.0			
Trouble concentrating on things such as reading the newspaper or watching television  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Nearly every day 14 9.8  More than half the days 34 23.8  Total 143 100.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 20 14.0  Several days 29 20.3  Total 143 100.0  Not at all 120 83.9  Not at all 120 83.9  Nearly every day 6 4.2  More than half the days  Several days 9 6.3		Not at all					
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Total 143 100.0  Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual Thoughts that you would be better off dead or of hurting yourself in some way  Total 143 100.0  Not at all 81 56.6  Nearly every day 13 9.1  More than half the days 29 20.3  Total 143 100.0  Several days 29 20.3  Total 143 100.0  Not at all 120 83.9 1.34 .84 Low  Nearly every day 6 4.2  More than half the days  Several days 9 6.3	things such as reading the	More than half the	20		2.09	1.27	
Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Total  Not at all  Not at all  Not at all  Several days  Total  Total  Total  Not at all  120  83.9  1.34  Nearly every day  More than half the days  Several days	1 1	•	34	23.8			
Moving or speaking so slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days  Total  Not at all  81 56.6  Nearly every day  1.98  1.23  Low  Several days  29 20.3  Total  143 100.0  Not at all  120 83.9  Nearly every day  6 4.2  More than half the days  Several days  Several days  9 6.3		•					
slowly that other people could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Nearly every day 13 9.1  More than half the days  Several days 29 20.3  Total 143 100.0  Not at all 120 83.9  Nearly every day 6 4.2  More than half the days  Several days 9 6.3	Moving or speaking so			+			
could have noticed? or the opposite being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days  Several days  Total  Not at all  Not at all  Nearly every day  More than half the days  Several days  And the days  Several days  Several days  And the days  Several days  Several days  And the day				+			
being so fidgety or restless that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Not at all 120 83.9 1.34 84 Low  Nearly every day 6 4.2  More than half the days Several days 9 6.3	could have	More than half the			1 98	1 23	Low
that you have been moving around a lot more than usual  Thoughts that you would be better off dead or of hurting yourself in some way  Nearly every day  More than half the days  Several days  Several days  143  100.0  143  100.0  1.34  84  Low  85.6  63  Several days  9 6.3			20	20.3	1.70	1.23	LOW
Thoughts that you would be better off dead or of hurting yourself in some way  Not at all  Not at all  Nearly every day  More than half the days  Several days  Several days  9 6.3	~ ~ .						
Thoughts that you would be better off dead or of hurting yourself in some way  More than half the days  Several days  9 6.3	•	1 Otal	143	100.0			
better off dead or of hurting yourself in some way  Nearly every day  More than half the days  Several days  9 6.3		Not at all	120	83.9	1.34	.84	Low
yourself in some way  More than half the 8 5.6  days  Several days 9 6.3	•						
days Several days 9 6.3				+			
Several days 9 6.3	j : ::::: ::: ::::::::::::::::::::::::						
			9	6.3			
1 101/11   141   100/11   1		Total	143	100.0			

Cut of points value(1): low = (1-2), Moderate = (2.1 - 3), High = (3.1 - 4). M = Mean, SD=standard deviation, F=frequency, % =percentage.

The item "feeling tired or having little energy" had a maximum mean of 2.76 in Table 1, while the item "feeling bad about yourself or that you are a failure or have let yourself or your family down" had a minimum mean of 1.55.

**Table 2**: Descriptive analysis of overall depression disorder among recovered nurses from COVID-19 (PHO-9)

Ranking	F	%	M	SD	Overall
					assessment
Low	57	39.9	2.2	.633	Moderate
Moderate	76	53.1			
High	10	7.0			
Total	143	100.0			

Cut of points value(1): low = (1-2), Moderate = (2.1 - 3), High = (3.1 - 4). M = Mean, SD=standard deviation, F=frequency, % =percentage.

Table 1.2 Show that more than half 76 (53.1%) of recovered nurses from COVID- 19 were having moderate depression disorder.

**Table 3:** Descriptive analysis of items of generalized anxiety disorder among recovered nurses from COVID-19. (GAD-7)

Items	F		%	M	SD	Asses.
Feelingnervous,	Not at all	43	30.1	2.7	1.311	Moderate
anxious or on edge	Nearly every day		11.9	3		
	More than half the days	18	12.6	1		
	Several days	65	45.5	1		
	Total	14	100.0	_		
		3				
Not being able to stop or	Not at all	64	44.8	2.3 1	1.334	Moderate
control worrying	Nearly every day	17	11.9			
	More than half the days	15	10.5			
	Several days	47	32.9	1		
	Total	14	100.0			
Worrying too much	Not at all	54	37.8	2.4	1.293	Moderate
	Nearly every day	18	12.6			
about different things	More than half the days	24	16.8			

	Several days	47	32.9			
	Total	14 3	100.0	-		
Trouble relaxing	Not at all	52	36.4	2.5	1.315	Moderate
	Nearly every day	16	11.2	3		
	More than half the days		15.4			
	Several days		37.1			
	Total	14	100.0			
Being so restless that it is hard to sit still	Not at all	75	52.4	2.1	1.316	Moderate
nard to sit still	Nearly every day	11	7.7	5		
	More than half the days	18	12.6	-		
	Several days	39	27.3			
	Total	14	100.0			
Becoming easily	Not at all	37	25.9	2.6	1.217	Moderate
annoyed or irritable	Nearly every day	23	16.1	9		
	More than half the days	30	21.0			
	Several days	53	37.1			
	Total	14	100.0			
Feelingafraid as if	Not at all	69	48.3	2.1	1.212	Moderate
something awful	Nearly every day	20	14.0	0		
might happen	More than half the days	25	17.5			
	Several days	29	20.3	1		
	Total	14 3	100.0	-		

Cut of points value (1): low = (1-2), Moderate = (2.1 - 3), High = (3.1 - 4). M = Mean, SD=standard deviation, F=frequency, % =percentage.

Table 3: Indicates that the item "Feeling nervous, anxious, or on edge" had a maximum mean of 2.73 and a minimum mean of 2.10 (Feeling terrified as if something dreadful might happen).

**Table 4**: Descriptive analysis of overall generalized anxiety disorder among recovered nurses from COVID-19 (GAD-7)

Ranking	Frequency	Percent	M	SD	Overall						
					assessment						
Low	51	35.7	2.42	.807	Moderate						
Moderate	57	39.9									
High	35	24.5									
Total	143	100.0	]								

Cut of points value(1): low = (1-2), Moderate = (2.1 - 3), High = (3.1 - 4). M = Mean, SD=standard deviation, F=frequency, % =percentage.

Table 4 Show that about third 57 (39.9%) of recovered nurses from COVID-19 were complaining of general anxiety disorder.

**Table 5:** Descriptive analysis of overall daily living activities among recovered Nurses from COVID-19

Ranking	Frequency	Percent	M	SD	Overall assessment
Poor	0	0	2.79	.240	Good
Fair	10	7.0			
Good	133	93.00			
Total	143	100.0			

Cut of points value (0.66): Poor = (1-1.66), Fair = (1.67-2.33), Good = (2.34-3). M = mean, SD=standard deviation, F=frequency, % = percentage.

Table 5 Shows that 133(93%) of the daily living activities of Nurses who recovered from COVID-19 were good.

**Table 6**: Correlation between depression disorder and daily living activities among recovered Nurses from COVID-19

Daily living activities among Recovered Nurses from Total Correlation								
COVID-19.								
Depression disorder		Fair	Good		Spearman	P-value		
among recovered					n's rho			
nurses from	Low	1	56	57	298 **	.001		
COVID-	Moderate	8	68	76				
19.	High	1	9	10				
Total		10	133	143				
**Correlation is signi	figure at the O	O1 lovel						

<sup>\*\*</sup>Correlation is significant at the 0.01 level.

Table 6 shows a negative highly significant correlation between depression disorder and daily living activities among recovered Nurses from COVID-19 at P- value  $\leq 0.05$ .

<sup>\*</sup>Correlation is significant at the 0.05 level.

**Table 7:** Correlation between generalized anxiety disorder and daily living activities among recovered Nurses from COVID-19

		1000,0100	1 1001 5 0 5		00,120	- /		
•	Activities	among Recovered Nurses from				Total	Correlatio	n
COVID-19								
Generalized	anxiety	Moderate		(	Good		Spearme	P-value
disorder	among						n n's rho	
recovered nurses	s from	Low	1	4	50	51	257**	0.002
COVID-19.		Moderate	7	4	50	57		
		High	2		33	35		
Total			10		33	143		

<sup>\*\*</sup>Correlation is significant at the 0.01 level.

Table 7 shows a negative highly significant correlation between generalized anxiety disorder and daily living activities among recovered Nurses from COVID-19 at P-value  $\leq 0.05$ .

#### **Discussion**

# Depression disorder items among recovered nurses from COVID-19

According to the results of the data analysis for Table (1), 53,1% of the nurses who recovered from COVID-19 had a moderate depression problem. This finding was consistent with a study that evaluated the impact of depression on quality of life among frontline nurses working in emergency rooms during the COVID-19 pandemic. Out of the total number of participating nurses (1103), the study's results indicated that the prevalence of depression among nurses was 43.61%. This included (27.7%) cases of mild depression, (8.6%) cases of moderate depression, (5.3%) cases of moderate to severe depression, and (2.1%) cases of severe depression (An, Y., et al., 2020).

To evaluate clinical personnel in Jordan during the COVID-19 pandemic for anxiety, sadness, stress, dread, and social support, Alnazly, E., et al. (2021) conducted research. The study's findings demonstrated that women made up the bulk of its 365 participants and that 40% of them were nurses who suffered from severe depression—of the total number of participating nurses (1103), depression and (2.1%) had severe depression (An, Y., et al., 2020).

During the COVID-19 pandemic, Côté, J. et al. (2022) performed a cross-sectional study to evaluate psychological distress, depression symptoms, and weariness among nursing personnel in Quebec. The study's conclusions demonstrated that 27% of all nurses (1708) had moderate to severe depression and that 87% of participants were female.

# Generalized anxiety disorder among recovered nurses from COVID-19

According to table (3) data analysis results, approximately one-third (39.9%) of the COVID-19-recovered nurses reported having a general anxiety problem. This finding was consistent with research done to evaluate stressors associated with COVID-19 and anxiety in nursing personnel working shifts at four COVID-19-focused hospitals in Korea. The study's findings revealed that 122 (32%) of the participating nurses had generalized anxiety disorder, with the majority of them being female and under the age of fifty (Park, S., et al., 2021).

A Research by Feingold, J.H., et al. (2021) evaluated the psychological effects of the COVID-19 pandemic on frontline nursing workers in New York City during the pandemic surge. Based on the study's findings, 642 participants, or 25% of the entire sample of 1005 participants, had generalized anxiety disorder. To evaluate the experiences of front-line nursing workers in Egypt and Saudi Arabia regarding depression, anxiety, and stress during the COVID-19 epidemic, Arafa, A., et al. (2021) carried out a cross-sectional study. The findings demonstrated that, out of the 426 participants, the proportion of healthcare workers with generalized anxiety disorder (55.9%) was the highest globally.

<sup>\*</sup>Correlation is significant at the 0.05 level.

# Activities of daily living among recovered nurses from COVID-19

According to table (5) data analysis results, 133 (93%) of the recovered nurses from COVID-19 had good daily living activities. Numerous research investigations examining daily life activities from the start of the pandemic to the present day have demonstrated a continuous improvement in the daily activities of those recuperating with COVID-19.

A study was carried out by Taboada, M. et al. (2021) to evaluate functional status six months after hospitalization due to COVID-19. According to the findings of a study conducted in a Spanish hospital, out of the 242 participants, 87 (47.5%) had a reduction in functional status. The scientists suggested additional, long-term studies to track the functional state of COVID-19 survivors.

To evaluate the physical, cognitive, and psychological health outcomes of COVID-19-linked acute respiratory distress syndrome survivors after a year, Latronico, N. et al. (2021) carried out a study in Italy. According to the study's findings, 98% of participants were independent in their everyday activities at three months. Among the 114 patients, cognitive impairment (28% at three months) gradually improved.

A global study led by Peñas, C. et al. (2022) examined the possible relationship between symptoms experienced during the acute phase of SARS-CoV-2 infection and hospitalization to an intensive care unit following COVID-19. The study's findings At least 20% of COVID-19 survivors reported limitations on their everyday activities eight months after the virus was contracted. Additionally, the researchers offered suggestions for further long-term studies to monitor the day-to-day activities of COVID-19 survivors.

# Correlation between depression disorder and daily living activities among recovered Nurses from COVID-19

The findings of the data analysis regarding table (6) show a negative, highly significant correlation between depression disorder and daily living activities among recovered nurses from COVID-19 at a P-value  $\leq$  0.05. De Mello, M. T., et al. (2013) conducted a population study to find out the relationship between physical activity, depression, and anxiety symptoms. The results of the study showed that patients who do not engage in physical activities are twice as likely to show symptoms of depression, as the rate of depression in individuals without physical activity (63.2%) is much higher than the rate of depression in individuals who engage in physical activity (10.9%).

Gustryanti, K., et al., (2017) conducted a study to assess depression among disabled individuals living in Cimahi, West Java Province, Indonesia. Age, marital status, family history of depression, perceived health status, and daily living activities were found to have a negative significant relationship with depression among disabled individuals (p<.01; p<.05). The researcher's opinion is that nurses recovering from COVID-19 who have depressive disorders suffer from reduced physical activity, and this affects the course of the nursing process and the care of patients within health institutions as well as their family life patterns.

# Correlation between generalized anxiety disorder and daily living activities among recovered Nurses from COVID-19

Table (7) presents the results of data analysis indicating a highly significant connection (P-value ≤0.05) between daily living activities and generalized anxiety disorder in nurses who have recovered from COVID-19. This finding was consistent with a cross-sectional study that looked at the association between daily life activities and anxiety disorders in a sample of the population in Sao Paulo, Brazil. According to the study's findings, people who don't exercise regularly have a twice as high likelihood of exhibiting anxiety symptoms as people who regularly exercise (De Mello, M. T.,2013).

A cross-sectional study was conducted in Spain via an online survey to find the relationship between anxiety symptoms and daily activities during the final phase of Covid 19 on 2,250 participants, 54% of the females were about 35 years old. Anxiety and daily activities, and the association was stronger

in females under the age of 30 years, and these results support the results of our study (Bueno, R.L.,et al. 2020).

According to the researcher, higher levels of tension and anxiety are associated with higher levels of thinking and fear of the things that are causing the tension. This imbalance in brain functions can result in a variety of problems, such as trouble regulating sleep, staying up late to sleep, difficulty waking up early, lack of focus, low productivity, and an ongoing sense of anxiety and excessive nervousness. This has an impact on general health and makes it harder to carry out regular tasks.

# Conclusion

Approximately 53% of COVID-19-affected nurses who recovered experienced moderate depression. Approximately 40% of COVID-19-affected nurses who recovered had moderate generalized anxiety disorder. Among COVID-19-affected nurses who had recovered, 93% of their daily activities were good. The everyday activities of nurses who have recovered from COVID-19 are negatively correlated with their depression problem. There is an inverse association between the recovered COVID-19 nurses' generalized anxiety disorder and their activities of daily living.

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