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Psychological Effects of COVID-19 on Nurses in Kuwait Hospitals & The Efficiency of Coping Mechanism Including Graduate from Nursing Institute

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Abstract

By the end of November 2020, the total death of COVID-19 in Kuwait hospitals reached 880 persons in a country of 4.137 million population comparing to 1.46 million death word wide. This pandemic has rapidly and profoundly affected every part of daily life, from the way people work, live, shop, socialize, and plan for future. In this battle, nurses were the big fighter against this enemy and went through tremendous psychological & physical pressure, working long shifts and often not provided with adequate emotional support (Veenema& Meyer,2020) under these conditions, the WHO recognizes the importance of nurse's mental health and wellbeing. Therefore, nurses need supportive psychological interventions to promote emotional release and improve their mental health, hoping to overcome this stage safely with sturdy psychological health.Purpose: In this study, I am trying to highlight the level of the psychological impact of this event on our staff nurses in Kuwait hospitals& the efficiency of their coping mechanism during this pandemic with special consideration to the reaction of graduate nurses from Kuwait nursing institute. Method: In this quantitative method survey, an online questionnaire using Google Form was distributed through the head of the department in designated hospitals for COVID-19 between November 7 and 16 -2020 snowball sampling technique was also encouraged, a total of 187 nurses were responded in this sample, uncompleted questionnaires were excluded. The questionnaire included four main sections, social- demographic information, occupational & work history, general health questionnaire (GHO-12), and a simplified copping style scale. A consent form was available pre- to filling the survey, Participant could withdraw at any point they wish even after an agreement to start. Results: A total of 181 participants attended the study, 79.6% Female while 20.4% were Male 30identified as having psychological distress.151 were without destress, univariate analysis revealed that there is significant difference in nationality, job role, working years, effectiveness of available precautionary measures, being treated differently because of working in hospital & being in contact with covid-19 cases between the two groups. Number of Kuwaiti staff without destress is less than their number with destress. For the two types of copping style, the mean avoidant coping of those with distress (2.49) was higher than that without distress (2.07) this difference was statistically significant where p=0.00Approach coping for the destress group is higher than approach coping of the nondistress group, Approach coping for our institute graduate was higher than the avoidant coping. Conclusions: Our staff nurses in Kuwait hospitals have a low psychological effect due to COVID-19 outbreak with variable coping style, our nursing institute graduate experience allow psychological effect & a positive coping mechanism. coping style is divided to approach & avoidant style, approach style is much stronger.

Keywords: COVID-19- Pandemic – nurses- nursing institute graduate- Psychological distress- Coping style **DOI:** 10.7176/JHMN/91-02

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INTRODUCTION:

COVID-19 is an infectious disease caused by a newly discovered virus that was first reported on December 12, 2019, in Wuhan (Wang, Tang, &Wei,2020: Zhou et al.,2020a) affecting 218 countries with a total of 65.868.826 infected cases & 1.517.524 death sword wide (WHO), In Kuwait, the total numbers of cases reached 143.917 cases & 886 deaths.

The first case in Kuwait was discovered on the 24 Feb coming from Iran (Republic of Kuwait Ministry of health,2020) all the batch being isolated to guaranty the non-spread of the virus, most infected cases were recovered spontaneously without special treatment, whereas the minority labeled as severe cases usually chronic diseases & elderly (WHO, 2020)

Coronavirus counted as one of the fast-spreading diseases heading toward middle and elderly age population causing death for elderly & chronic disease cases.

In the middle of this dramatic battle the brave solder -our frontline nurses fighting to ensure an acceptable level of care, sacrificing their time& safety for their patients. Despite the increased number of infected cases among the health professionals in Kuwait and around the ward Staff nurses are still sincerely working, day to day their social isolation builds up and more psychological distress could be noticed (Kang et al., 2020).

Psychological distress is a state of emotional suffering associated with stressors and demands that are difficult to cope with in daily life, the lack of effective care for and difficulty in identifying psychological distress is frustrating for health professionals, it may indicate the beginning of major depressive disorder

Our staff nurses are in daily contact with infected cases, anxious about the safety of their own & their family, looking forward to the end of this pandemic.

In this study, I am trying to portray the psychological impact levels of nurses due to this outbreak, and the effectiveness of their coping style including our graduate staff from the nursing institute.

DESIGN:

Quantitative method survey through online questionnaire link was shared through WhatsApp, information about the survey was provided to the head of some department with the questionnaire link then to different groups all over the hospital, each staff is requested to read the clarification provided before the agreement to start. The questionnaire started with 5 personal questions, 11work history questions,2 medical history questions, psychological effect -12 questions &12 question coping mechanisms.

PARTECIPANT:

187 participants from the front line of different department in Kuwait hospitals (ICU, Causality, COVID-19 ward, OPD& clinics) started the questionnaire, only 181 completed the questionnaire 144Female & 37 Male,88 staff aged 30-39, and 66 were between40-49,21were less than 30 years old& 3 only above age of 60 years. majority were non-Kuwaiti 149, married153, with educational level of bachelor's degree 88, Diploma degree 69, Associated degree (nursing institute graduate) 20 .data were daily examined to exclude the non-completed answers (paper was excluded if more than five answer was messing).

INSTRUMENT:

The 12-item General Health Questionnaire (GHQ-12) (Goldberger & Williams,1988) consists of 12 items (6positive&6negative) to assess the mental health, positive items corrected not at all answer (3degree) to 0 degree for much more than usual answers. On the other hand, negative items corrected as 3degree for much more than usual answer and 0 for not at all answer, the total score range was between 0- 42, the higher score indicate the presence of psychological distress.

On the other hand, Brief- COPE from Novo Psych2018 (with modification-12 items) was used as a tool to assess coping style which presented either as avoidance coping or approach coping.

Avoidance Coping or negative coping characterized by behavioral disengagement, self-blame &denial this group are less effective at dealing with distress ,each item in the negative coping scores from(1) for (haven't been doing this at all) to (4) for I have being doing this a lot, on the other hand approach or positive coping personal characterized by ability to plane, accept, seek emotional& informational support so they are more effective in dealing with distress with the same scoring from(1) for haven't been doing this at all, to (4) for I have being doing this a lot .one religion question was included but not counted as approach nor avoidance coping.

Data analysis: (Statistical methodology)

Data were collected and coded, entered to IBM compatible computer, using the SPSS version 26 for Windows. Entered data were checked for accuracy then for normality, using Kolmogorov-Smirnov & Shapiro-Wilk tests, and proved to be normally distributed. Qualitative variables were expressed as number and percentage while

quantitative variables were expressed as median, mean (\overline{X}) & standard deviation (SD). The arithmetic mean was used as a measure of central tendency, while the standard deviation (SD) was used as a measure of dispersion.

The following statistical tests were used:

1-The χ 2-test (or likelihood ratio =LLR) was used as a non-parametric test of significance for comparison between the distribution of two qualitative variables.

2-The Fisher's exact test was used as a non-parametric test of significance for comparison between the distribution of two qualitative variables whenever the χ 2-test was not appropriate. It gives a p-value directly.

3-Independent samples t-test was used as a test of significance for comparison between comparison between the mean score of avoidant and approach coping regarding those with and without stress, after performing the Levine's test for equality of variances.

4-Paired samples t-test was used as a test of significance for comparison between the mean score of avoidant and approach coping together.

A 5% level is chosen as a level of significance in all statistical significance tests used.

RESULT:

From 07November-16 November 2020, a total of 189 electronic questionnaire were collected, 8partecipation

were excluded because of not completing the questionnaire properly. ended with 181 that included in the study. response rate was estimated to about 94.76%, reliability of GHQ=0.685, reliability of coping=0.759 participants characteristics

Total of 181 participants, (n=144 female -79.6%) & (n=37 male -20.4%), 88where between the age of 30-39, non-Kuwaiti were the majority (143-79.0%),(n=153-84.5%) married, most of them with bachelor's degree (48.6%-n88) majority were staff nurse (134-74.0%), area of causality-emergency counted for (n=33-33.7%) of total participant, the majority of staff working years were 10years or more (n=106-58.6%) (Table1).

		l -			GHQ	L YN		- .		
		"	otal	Ntout	distres	F ⊮th	distress	Test	Value	p
Total number		181	100.0	151	100.0	30	100.0			
gender	female	144	79.6	117	77.5	27	90.0	X2(1)	2.411ª	0.120
	male	37	20.4	34	22.5	3	10.0			
age		3	1.7	2	1.3	1	3.3	LLX2 (4)	2.327	0.676
	<30 years	21	11.6	18	11.9	3	10.0			
	> 60 Years	3	1.7	3	2.0	0	0.0			
	30-39 Years	88	48.6	75	49.7	13	43.3			
	40-59 Years	66	36.5	53	35.1	13	43.3			
nationality	kuwaity	38	21.0	23	15.2	15	50.0	X2(1)	18.240ª	0.000
	no kuwaity	143	79.0	128	64.δ	15	50.0		101010	
Marital Status		2	1.1	2	1.3	0	0.0	LLX2 (2)	0.771	0.680
	married		84.5	127	84.1	26	86.7			
Educational level	single		14.4	22	14.6	4	13.3			
	Associated degree	20	11.0	14	9.3	6	20.0	LLX2 (3)	4.268	0.234
	Bachelor degree	88	48.6	76	50.3	12	40.0			
	Diploma degree	69	38.1	57	37.7	12	40.0			
	Master & Above	4	2.2	4	2.6	0	0.0			
Job role		4	2.2	4	2.6	0	0.0	LLX2 (4)	19.619	0.001
	ADN & above	15	8.3	9	6.0	6	20.0			
	assistant nurse	6	3.3	4	2.6	2	6.7			
	head nurse	22	12.2	13	8.6	9	30.0			
	staff nurse	134	74.0	121	80.1	13	43.3			
department		12	6.6	7	4.6	5	16.7	LLX2 (14)	22.589	.069
	Causality-Emergency	61	33.7	58	38.4	3	10.0		• •	
	CCU	3	1.7	3	2.0	0	0.0			
	COVID RR	1	0.6	1	0.7	0	0.0			
	COVID-19 Wards	33	18.2	25	16.6	8	26.7			
	dental	1	0.6	1	0.7	0	0.0			
	Gastroenterology. Endoscopy	1	0.6	1	0.7	0	0.0			
	ICU	32	17.7	26	17.2	6	20.0			
	ICU-CCU	1	0.6	0	0.0	1	3.3			
	Medical, surgical	17	9.4	13	8.6	4	13.3			
	OT	3	1.7	3	2.0	0	0.0			
	out patient	7	3.9	5	3.3	2	6.7			
	Pedo	1	0.6	1	0.7	0	0.0			
	PHC	6	3.3	5	3.3	1	3.3			
	Wards ent and uro	2	1.1	2	1.3	0	0.0			

		Tota			GHQ	YN	4.10	Test	Value	
		TOL	al	Withou	t distress	With o	distress	Test	Value	р
Total		20	10.011	14		6				
gender	female	17	3.40	12	85.71	5	83.33	FET X2		.681
	male	3	0.60	2	14.29	1	16.67			
age		2	0.40	1	7.14	1	16.67	LLX2 (3)	1.691	.639
	<30 years	6	1.20	5	35.71	1	16.67			
	30-39 Years	7	1.40	4	28.57	3	50.00			
	40-59 Years	5	1.00	4	28.57	1	16.67			
nationality	kuwaity	9	1.80	6	42.86	3	50.00	FET X2		.574
	no kuwaity	11	2.20	8	57.14	3	50.00			
Marital Statu	1	2	0.40	2	14.29	0	0.00	LLX2 (2)	1.638	.441
	married	11	2.20	7	50.00	4	66.67			
	single	7	1.40	5	35.71	2	33.33			
Job role		3	0.60	3	21.43	0	0.00	LLX2 (2)	5.010	.171
	assistant nu	1	0.20	0	0.00	1	16.67			
	head nurse	5	1.00	4	28.57	1	16.67			
	staff nurse	11	2.20	7	50.00	4	66.67			
department		3	0.60	3	21.43	0	0.00	LLX2 (7)	14.024	.051
	Causality-Er	2	0.40	2	14.29	0	0.00			
	COVID-19 V	6	1.20	4	28.57	2	33.33			
	Medical, sur	3	0.60	0	0.00	3	50.00			
	out patient	2	0.40	1	7.14	1	16.67			
	Pedo	1	0.20	1	7.14	0	0.00			
	PHC	1	0.20	1	7.14	0	0.00			
	Wards ent a	2	0.40	2	14.29	0	0.00			

Occupational &work history

Our staff nurses agreed that there were changes in their regular job duties (n=120-66.3%), on the other hand (n=99-54.7%) stated that they did not work overtime.

Regarding the availability of PPE (n=140 - 77.3%) informed that it is available &28disagree, majority clarified those precautionary measures are effective (n=134 - 74.0%) while 34 disagree. total of (n=165-91.2%) being in contact with COVID-19, leading to (n=118 - 65.2%) very concerned of own being infected, (n=153 - 84.5%) very concerned of family being infected. (Table2).

Table2:	Work-	related	characteristics&	concerned	about	COVID-19	of	front-line	nurses	(universal
analysis)	1									

anaiysisj		-						1		1
		т	otal		GHQ	-		Test	Value	n
		1	otai	Withc	out distress	Wi	th distress	Test	value	р
Total		20		14		6				
working years		1	0.20	0	0.00	1	16.67	LLX2 (6)	12.298	.056
	>=10 years	1	0.20	1	7.14	0	0.00			
	1-3 years	4	0.80	1	7.14	3	50.00			
	10 years or more	6	1.20	4	28.57	2	33.33			
	12	1	0.20	1	7.14	0	0.00			
	4-9 years	3	0.60	3	21.43	0	0.00			
	less 1 year	4	0.80	4	28.57	0	0.00			
Changes of regular job duties		1	0.20	1	7.14	0	0.00	LLX2 (2)	1.181	.554
	no	5	1.00	4	28.57	1	16.67			
	yes	14	2.80	9	64.29	5	83.33			
working overtime	no	9	1.80	7	50.00	2	33.33	FET X2		.426
	yes	11	2.20	7	50.00	4	66.67			
Personal Protective Equipment are available	no	3	0.60	2	14.29	1	16.67	FET X2		.681
	yes	17	3.40	12	85.71	5	83.33			



Available Precautionary measures are effective		1	0.20	0	0.00	1	16.67	LLX2 (2)	2.538	.281
	no	4	0.80	3	21.43	1	16.67			
	yes	15	3.00	11	78.57	4	66.67			
Being treated differently because of working in hospital.		1	0.20	1	7.14	0	0.00	LLX2 (2)	4.244	.120
	no	4	0.80	4	28.57	0	0.00			
	yes	15	3.00	9	64.29	6	100.00			
Being in contact with COVID-19 cases	no	4	0.80	4	28.57	0	0.00	FET X2		.207
	yes	16	3.20	10	71.43	6	100.00			
Concern of own being infected with COVID-19	a little concerned	5	1.00	3	21.43	2	33.33	LLX2 (2)	1.728	.421
	not concerned	4	0.80	2	14.29	2	33.33			
	very concerned	11	2.20	9	64.29	2	33.33			
Concern for family being infected with COVID-19	a little concerned	2	0.40	0	0.00	2	33.33	LLX2 (2)	5.884	.053
	not concerned	1	0.20	1	7.14	0	0.00			
	very concerned	17	3.40	13	92.86	4	66.67			

	Tot	al		GHQ	_YN		Test	Value		
	Total		Withou	t distress	With	distress	Test	value	р	
Total	20		14		6					
working yea	1	0.20	0	0.00	1	16.67	LLX2 (6)	12.298	.056	
>=10 years	1	0.20	1	7.14	0	0.00				
1-3 years	4	0.80	1	7.14	3	50.00				
10 years or	6	1.20	4	28.57	2	33.33			5	
12	1	0.20	1	7.14	0	0.00				
4-9 years	3	0.60	3	21.43	0	0.00			5) A	
less than 1	4	0.80	4	28.57	0	0.00				
Changes of	1	0.20	1	7.14	0	0.00	LLX2 (2)	1.181	.554	
no	5	1.00	4	28.57	1	16.67				
yes	14	2.80	9	64.29	5	83.33				
working oveno	9	1.80	7	50.00	2	33.33	FET X2		.426	
yes	11	2.20	7	50.00	4	66.67				
Personal Pino	3	0.60	2	14.29	1	16.67	FET X2		.681	
yes	17	3.40	12	85.71	5	83.33			2. 2.	
Available P	1	0.20	0	0.00	1	16.67	LLX2 (2)	2.538	.281	
no	4	0.80	3	21.43	1	16.67				
yes	15	3.00	11	78.57	4	66.67				
Being treate	1	0.20	1	7.14	0	0.00	LLX2 (2)	4.244	.120	
no	4	0.80	4	28.57	0	0.00				
yes	15	3.00	9	64.29	6	100.00			25	
Being in co no	4	0.80	4	28.57	0	0.00	FET X2		.207	
yes	16	3.20	10	71.43	6	100.00				
Concern of a little conc	5	1.00	3	21.43	2	33.33	LLX2 (2)	1.728	.421	
not concern	4	0.80	2	14.29	2	33.33				
very conce	11	2.20	9	64.29	2	33.33				
Concern fo a little conc	2	0.40	0	0.00	2	33.33	LLX2 (2)	5.884	.053	
not concern	1	0.20	1	7.14	0	0.00				
very conce	17	3.40	13	92.86	4	66.67				

Health history

Among 181 participant 44complain of headache (24.3%), varicose veinin30personale (16.6%) ,24diagnosed as hypertension (13.3%), 19 with respiratory problems (10.5%) &18 diabetes mellitus (9.9%), 69% on regular treatment. (Table 3) clarify the relation of the most common diseases with GHQ 12 finding.

	Total		to add a	Test	Value	823				
	1000	Without distress n=151 With distress n=30					Test	Value	р	
Headache	44	24.3	32	21.2	12	40.0	LLX2 (2)	4.695	.096	
Varicose vein	30	16.6	25	16.6	5	16.7	LLX2 (3)	.735	.865	
Hypertension	24	13.3	18	11.9	6	20.0	LLX2 (2)	1.625	.444	
Respiratory proble	19	10.5	12	7.9	7	23.3	LLX2 (2)	5.500	.064	
Diabetes mellitus	18	9.9	14	9.3	4	13.3	LLX2 (3)	2.450	.484	

General health questionnaire-12score.

Out of 181 staff 151 found to be without destress majority are female (n=117-77.5%) while male counted for (n=34-22.5%), Total of 30 personal only found to be under stress female(n=27-90%), male(n=3-10%) (Table 1)

Coping style:

For staff nurses, mean score of avoidant coping among those with stress (2.49+0.56) was significantly (p<0.001) higher than that of those without stress (2.07+0.56).

Although the mean score of approach coping among those with stress (3.14+0.58) was higher than that of those without stress (2.99+0.75), however, this difference was not statistically significant (p=0.330).

The mean score of approach coping was significantly higher than that of avoidant coping among those with stress and those without stress (p<0.001, each).

Among the associated degree nurses (n=20), the mean score of avoidant coping among those with stress (2.69+0.88) was higher than that of those without stress (2.21+0.51), however, this difference was not statistically significant (p=0.135).

Also, the mean score of approach coping among those with stress (2.95+0.41) was higher than that of those without stress (2.98+0.59), however, this difference was not statistically significant (p=0.913).

The mean score of approach coping was significantly higher than that of avoidant coping among those without stress (p<0.001, each). On the other hand, the mean score of approach coping was higher than that of avoidant coping among those with stress however, this difference was not statistically significant (p=0.609).

By tracing the group under stress n=30 we found that some were coping positively (approach coping) 3.14+0.58, some were negative in coping(avoidance) 2.49+0.56, same for population without any stress n=146,2.07+0.65 coped negatively,144 were positive in coping2.99+0.75. (Table 4)

For the group of nursing institute graduate it was clear that coping approach group p=.913 exceed the number of avoidant coping p=.135 (Table 4a)

Type of coping	v	Vithout distres	s		With distres	S		Total	t	p	
	N Mean SD				Mean	SD	N	Mean	SD		
Avoidant_coping	146	2.07	0.56	29	2.49	0.56	175	2.14	0.58	3.723	0.000
Approach_coping	144	2.99	0.75	29	3.14	0.58	173	3.02	0.73	0.977	0.330
Paired-t		13.969			4.720			14.649			
Р	0.000		0.000				0.000				

Table 4: Comparison of coping styles among nurses with different psychological health status

Table4 a: Comparison of coping styles among nursing institute graduate with different psychological health status

Type of	١	Vithout distres	S		With distres	SS		Total		t	р
coping	N	Mean	SD	N	Mean	SD	N	Mean	SD		
Avoidant_coping	14	2.21	0.51	6	2.69	0.88	20	2.35	0.65	-1.566	0.135
Approach_coping	14	2.98	0.59	5	2.95	0.41	19	2.97	0.54	0.111	0.913
Paired-t	111	3.682		5. C	0.555		2 Bar	3.193			 Align and Source
Р		0.000			0.609			0.005			

FINAL ANALYSIS:

From the 181-personal shared in the survey 151 were working with less psychological destress comparing ton=30 under stress, significant difference could be detected between the two groups of nationality personal, Kuwaiti nurses with destress are less than Kuwaiti nurses without destress. same could be noticed regarding the job role, staff nurses without distress are much more than those of non, moving to working years majority were of more than 10 years of experience & the difference was significant between the stress& non stress group, we could notice the big difference in both groups regarding to the effectiveness of PPE, being treated differently because of working in hospitals& being in contact with infected cases (Table1,2)

For the type of copping style, significant difference could be detected for the group of avoidance copping between the two-part included, negative copping for group with stress is stronger than non-stress group.in comparing the general finding we notice that approach copping for stress group is higher than without distress.

DISCUSSION:

In this research it was disclosed that minority of our staff nurses including nursing institute graduate Experienced certain level of psychological distress, reflected by the score of their answers, only 30staff out of total 181 staff cleared to be negatively affected & being under stress, majority were female n=27 only3 were male, 26married ,only 4 were single, they found to be in area such as COVID-19 Wards, ICU-CCU-Medical ,Surgical Ward, Outpatient& PHC, 13 0ut of 30 were staff nurses with degree of BSN n=12,Diploman=12,n=6 Associated degree, half were Kuwaiti n=15- same number for non-Kuwaiti. Their age ranged between 30-39 n=13, same number for group age of 40-59,n=15 with ten or more years of experience ,remaining were from deferent working years less than 10 years, n=23 stated that there was changes in their regular job duties& working overtime,10% agreed for the availability of the precautional measures,20% only disagree for the effectiveness of the precautionary measures, 80% stated being treated differently because of the event ,96.7% were in contact with COVID-19 cases,66.7% very concerned of own being infected&86.7% for family being infected.

One of the reasons for starting this questionnaire is to high light the psychological effect of the event on our white dress solder& attract the attention of administration to focus on the problem and positively deal with it before it spread and become difficult to deal with. high and positive mentality is needed for our staff to continue caring for their patients, self& family.

Providing true, continuous reassurance and enough rest period is crucial, our staff need to feel the positive support, need to be provided with fact for what is going on, respect their wish be part of decision making, insure the availability& effectiveness of precaution measures.

Our staff need a period of relaxation & peace which might be difficult to fulfil specially with the increment of cases number & working hours. We need to do our best be strong, patient, scarify

For the best of all. hospital's management need to come out with ideas to relieve the pressure over her staff nurses like reducing shift hours & increasing shift number to reduce working

hours, provide for brief periodic meeting for psychological support or even online to feel the importance of them self & the interest of their superior, short classis run by specialist for effective ways to deal with crises and practice relaxing and breathing sessions.

Instruction for economic way to deal with supply need to be scheduled to keep enough supplies, reassure the staff for the effectiveness of the available of personal protective equipment and give continuous feedback for how to deal effectively with the event and protect your self

As a staff nurse it is difficult to be away from contact with COVID-19 patient as it is critical part of their job, but they could be protected by enough supplies of PPE &hand hygiene.

The majority n=151 were found to be without destress according to the result analysis of their GHQ but found to be very concern of own & family being infected with the disease, although majority being in contact with infected cases. Elevation of body immunity could be necessary for our staff to resist the virus; balanced nutrition & periodic rest period is important.

We notice that out of 33 nurses working in Covid-19 ward 8 staff had destress which count to be the higher percentage comparing to emergency department were out of 61 staff 3 being under destress, ICU is another high area of destress. These two areas have higher level of work stress, face unknown number of cases, forced to deal with dying cases, these high-risk environments could answer why staff in this area more vulnerable to destress.

Staff working 10 years or more got the highest percentage of destress15 out of total 30, this group counted for the majority of our sample106 out of 181, middle age group, active found in almost all department, they face previous conditions, knew how serious the condition is and can predict the end result of the situation.24 Out of 107 being treated differently in the group of destress cases which could be resulting of their direct & daily contact with sick or infected cases, they are dangerous carrier fore microorganism, people might avoid direct contact with them as a way to protect them self which lead to more stress more isolation. On the other hand, almost all the group under stress 29 out of 30 were in direct contact with an infected cases which might explain why they are under stress, that will also increase their concern about their family. special attention need to be

given for the negative copping group ,learn to be open mind, be close to family ,positive thinking, use prayer to feel more positive ,they need more attention from administration to over come this difficult period.

LIMATATION:

Although our respond rate was high sample size was relatively small, study was done at the beginning of the crisis and the real psychological status might be underestimated. Time span was relatively short, longer study need to be performed to reflect a more realistic result.

CONCLUSION:

This study revealed that psychological impact of covid -19 on our staff was limited, majority were working without destress, our graduate from nursing institute were coping positively comparing to the minority of the avoidance coping in the same batch. unexpected negative copping was found for both groups The difference between Avoidant copping for the stress group & the non-stress group were significant. Positive coping group were less in number Nursing administrations need to continue giving psychological support, care for her staff, appreciate their effort, reward, and reassure.

Relevance for clinical practice:

Covid-19 result in ending the life of thousands with no break, staff nurses cannot withdraw or stop, all medical staff under threat and that small negative group will grow if not being supported, early detection for sign of burn out, destress need to be noticed and treated, to stop further lost for our staff nurses. Special consideration should be taken for supporting the new graduate from nursing institute and other nursing school, leaving new graduate unsupported will lead to lose them early, appreciate must be shown to all nursing staff who are sincerely providing there best for the sake of others.

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