Impact of Covid-19 Outbreaks on Psychological Problem of Nurses

by Sidik Awaludin

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Impact of Covid-19 Outbreaks on Psychological Problem of Nurses on a Multinational Basis: A Literature Review

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31 Abstract

Background: The COVID-19 pandemic is a major health crisis that is causing physical and psychological problems in patients and healthcare workers. Nurses as the frontline of health care workers experience psychological problems from 1201 to severe

Aim: The aim of this literarture review was to find out the impact of Covid-19 on psychological problem of nurses in several antries.

Design: A literature review reported following the PRISMA guidelines.

Data Sources: ProQuest, Google Scholar, Scopus and Science Direct are sought to identify published original English language, published from 1 December 2019 to 31 April 2020.

Results: Nine articles are included. The majority of articles published are in the form of observational studies originating from Chinese centers. There are other publications from Singapore, India, Republic of Korea, Pakistan, United Kingdom, and Lebanon. Based on the literature found in some of the countries mentioned above nurses experienced 12 eral psychological problems ranging from mild ones such as disappointed, anxiety, fear, stress, to severe ones such as depression, and post-trauring c stress disorder.

Concl 5ion: The Covid-19 outbreak caused **psychological problems in nurses such as** disappointed, **anxiety**, fear, stress, **post-traumatic stress disorder**.

Keywords: COVID-19 outbreak; literature review; nurses; psychological problem

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INTRODUCTION

The Coronavirus 19 (COVID-19) pandemic believed to originate from Wuhan, China at the end of 2019, It is has spread to various countries in the world rapidly globally with a growing number of cases and deaths being infected 242). According to the WHO report the incidence of COVID-19 throughout the world is still increasing, it is proven by the discovery of the number of new cases. The total number of confirmed cases worldwide on May 02, 2020, is 3.267.184 people, the number of new cases is 91.977 people with a mortality rate of 7.04 % (3).

21

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The COVID-19 outbreak that occurred had a psychological impact on the commutate but also on health care workers, especially nurses (1). Nurses have an important role to play in helping reduce the impact of COVID-19 (4). Nurses are health care workers as an important force that stands at the forefront in the fight against the pandemic so that they are under the highest pressure of all medical care workers (5). Nurses and other health care workers risk their lives to perform their duties. Because nurses often have close contact with COVID-19 patients, there workers risk their lives to infection and spread the virus among coworkers and family members. To date, more than 3.000 health care workers have been infected with COV12-19 in the world. In addition to experiencing physical stress, nurses also face a very heavy mental burden (6). The mental health of nurses has been severely challenged during the COV1D-19 pandemic (7).

Studies show that nurses fear being infected and transmit the COVID-19 virus to their families, friends, and colleagues, feel uncertain about their safety, get stigmatized from the community as carriers of the virus, report unwillingness to work or contemplate resignation, and report experiencing stress levels, anxiety and high depressive symptom as which can occur for a long time. Similar concerns about mental health, psychological adjustment, and recovery of health care workers who treat and care for patients with COVID-19 now appearappear (8).

Seeing this phenomenon literature review was designed to explain the psychological problems experienced by nurses in several countries in the world affected by COVID-19.

This literature review aims to find out the impact of COVID-19 on the psychological problem of nurses in several countries so that they can provide input to health policyholders to solve the psychological problems of nurses who are experiencing that ultimately nurses can perform optimal nursing care to COVID-19 patients.

METHODS

Strategies in Literature Search

A literature review is used to find out psy25 logical problems that occur in nurses while caring for COVID-19 patients. The framework in reporting uses Preferred Reporting Items for Systematic Reviews and Meta-analysis followed to report findings (9). Electronic databases from ProQuest, Google Scholar, Scopus and Science Direct are sought to identify published original English language, published from 1 December 2019 to 31 April 2020. Searching for literature sources since the advent of COVID-19 disease, it is hoped to find information on the latest developments of psychological problems that occur in nurses while caring for COVID-19 patients. The search term includes "impact COVID-19", "psychological problems", "nurse", "healthcare workers" and "medical staff".

Search Outcome

All psychological problems experienced by nurses while treating patients with COVID-19. This study uses inclusion criteria which are all interventions related to psychological problems experienced by nurses. These studies were excluded if the article (a) did not discuss psychological problems or mental health (b) does not describe psychological problems experienced by nurses, (c) did not use the English language, and (d) studies with qualitative methods.

Data Abstraction

When the search results for an article have been obtained the first time the results are extracted by the first author independently, other writers do the same. Then all the authors discuss together and approve the articles selecte d for the literature review. Studies are grouped and compared based on the targeted country of origin, populations studied, methodology, study instrument and outcome findings (9).

Synthesis

The author does not take steps until the systematic review because the articles obtained are very limited in number and the articles were also heterogeneous with each other, which was large in the studies included. Also, the variables measured from each article are different. Therefore, the authors report the results of this study as a narration summary.

RESULTS

The PRISMA diagram used by researchers for the screening and selection of studies obtained is shown in Figure 1(9). The electronic search generated 1504 articles through keyword searches from four databases namely ProQuest, Google Scholar, Scopus, and Science Direct. Five duplicate articles were found by the author in the search, s o the first author filtered 1499 articles. After further titles and postract screening of 1499 articles were obtained, then for the reasons and specific approval of the authors, 1460 articles were issued and a total of 39 full-text articles were assessed for eligibility. The authors evaluated the full text of 39 articles for eligibility, removed 14 articles for a reason, then obtained 25 studies for further in-depth review specifically according to inclusion criteria. Nine articles met the full inclusion criteria which consisted of the final sample (Figure 1).

The majority of articles published are in the form of observational studies originating from Chinese centers. There are other publications from Singapore, India, the Republic of Korea, Pakistan, the United Kingdom, and Lebanon.

In China, nurses feel anxious about their safety and the safety of their families and get psychological problems from reports of mortal 6 due to COVID-19 infection. (10). Another study reported Fever Outpatient Nurses or emergency nurses 34% had mild anxiety, 3.53% had moderate anxiety, and 0.44% had severe anxiety. There were 32.23% of nurses who became respondents with a score greater than 25 on the perceived stress scale, indicating excessive stress (5). Female nurses show higher anxiety and fear than men. Nurses who work in cities show higher levels of anxiety and fear than nurses living in rural areas, but nurses living in the rural area show higher levels of sadness than nurses who live in cities (6). Another study showed nurses reported symptoms of depression 50.4%, anxiety 44.6%, insomnia 34.0%, and difficulty 71.5%. Another study showed female nurses, frontline health care workers, and those working in Wuhan, China, reporting more severe rates of all mental health symptom measurements than other health care workers (8).

In Singapore and India reported the survey, that nurses, doctors, and Screening performed on health care workers including nurses reported 5.3% experiencing moderate to very severe depression, 8.7% moderate to very severe anxiety, 2.2% for moderate to very severe stress, and 3.8% for the level of pressure moderate to severe psychological. The most commonly reported symptom was headaches 32.3%, with a large number of participants 33.4% reporting more than four symptoms. Participants was experienced symptoms in the previous month were more likely to be older, have pre-existing comorbidities, and screen positive for depasion, anxiety, stress, and post-traumatic stress disorder. The emergence of physical symptoms as a result of psychological problems such as anxiety, stress, and depression (11).

In the Republic of Korea, although time has passed since the outper ak of COVID-19, the high risk of symptoms of post-traumatic stress disorder is still felt by health care workers (nurses) who care for patients infected with COVID-19. Also, negative emotions and stress experienced by health care workers who treat patients infected with COVID-19 are addressed by the emergence of frequent signs of error, disappearance, delays due to communication failures, and others. Therefore, it is necessary to identify the appearance of these signs and can be suggested as important hospital management guidelines during the COVID-19 outbreak (12).

In Pakistan nurses (39) feel anxiety, fear, panic, and insecurity when working treating patients with COVID-1 (16) The local nursing staff at the crisis center of the COVID-19 pandemic crisis are essential for the effective work of the

health care system, so resources need to be sent to ensure the mental health of working nurses. The results of the mental health assessment of good nurses will be able to prevent the culture of helplessness that nurses learn. The government and hospital administration officers in Pakistan must make every effort to manage and diagobute personal protective equipment to doctors and nurses to ensure the safety of those who are at the forefront to treat patients with COVID-19. Adequate equipment and supplies of personal protective equipment, such as protective gowns, goggles, N95 masks, latex gloves and isolation gowns, adequate availability, and appropriate use can make health care workers feel comfortable and safe. Increase self-confidence and provide motivation among clinical nurses are very necessary during the pandemic. Psychological crisis interventions by practitioners of 44 chologists, counselors, and psychological experts are very useful for reducing fear, anxiety, panic, and insecurity among nurses working to care for COVID-19 patients. (13).

In the United Kingdom, the results of the study report that signs is still felt by health care workers, including nurses, to date. This stress includes concerns about the shortage of health care workers and the availability of self-protection equipment, new regulations, or new treatment systems in COVID-19 patients and others. Feel a lack of support from related organizations. Our anecdotal sources in the United Kingdom and Europe support this finding because, at the time of our writing nearing the height of the pandemic, other stressors included moral stress resulting from treatment decisions due to limited resources, lack of access to antigen or antibody tests for most health workers being at the forefront, discomfort and fatigue are felt due to undergoing long shift work using complete personal protection equipment. On social media, nurses say about fatigue after a long time wearing masks, barriers to communicating with colleagues and patients when wearing complete personal protective equipment, nurses often cannot hear patients and vice versa nurses do not understand the voice of nurses wearing personal protective equipment that complete, the patient cannot see the nurse's face. Nurses also talk about difficult ethical and moral judgments taken at the hospital. Nurses say they get a stigma from the community, nurses are considered as a threat to the safety of others because of 'carriers of disease'. When the number of COVID-19 patients increases, there are increasingly strict rules about who will use ventilation devices, at that time nurses tend to experience moral conflicts and ethical dilemmas with potential stress and moral pressure. Lack of adequate protection for nursing staff causes nurses to become frustrated, feel insecure at work because nurses have risked their health and risk to infect their families unless nurses feel well supported by their organization and government nurses become safe and comfortable at work. The feeling of psychological discomfort has the potential to cause some people to leave their profession. It would be difficult as a nurse to not have a strong emotional reaction to the COVID-19 virus and its effects on one's work such as worry, fear, anger, frustration. Such fears and anxieties are normal, as are the intense feelings that arise when nurses feel unable to treat patients as they should. (14).

In Lebanon an increased depressive and anxiety symptoms in nurses and other health care workers. The phenomenon of a lockdown condition gradually improves as the patient proves to adapt progressively to telepsychiatric services. From a therapeutic perspective, there has been a recent change in the treatment modality chosen by older patients: due to fear of contamination, most older patients and their caregivers have avoided hospitalization (15).

DISCUSSION

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Since the COVID-19 outbreak is very new, so there is very little literature on the psychological problem of nurses. This study narrates the various psychological problems experienced by nurses when observing COVID-19 patients in several countries. Based on the results of literature found in some of the countries mentioned above nurses experienced 12 eral psychological problems ranging from mild ones such as disappointed, anxiety, fear, stress to severe ones such as depression and Post Traumatic Stre7 Disorder (5, 8, 16, 17). There were even reports of infected nurses committing suicide within a few days for fear of spreading COVID-19 to patients. It is possible that fear and anxiety can cause sick nurses, the helplessness that will drive an increase in suicide rates by 2020 (18).

Psychological problems experienced by nurses durge the COVID-19 pandemic caused by several factors including due to the nature of the deadly virus, isolation, working in high-risk positions, and direct contact with infected individuals, lack of access to antigen of antibody tests, limited personal protective equipment, difficult ethical and moral judgments taken at the hospital, experiencing stigma in the wider community, nurses are considered a threat to the safety of others because as' carriers of disease ", lack of knowledge in treating COVID-19 patients.. (7, 10, 13, 14).

These psychological problems experienced by nurses need to be addressed with appropriate interventions, through psychological support for nurses, special training in nursing care for patients with COVID-19, stress relief, reducing fear and anxiety about infection, minimizing psychosocial changes and behavio urs caused by isolation. The government and hospital management must make every effort to manage and distribute personal protective equipment to nurses to ensure their safety is at the forefront. Adequate personal protective equipment and supplies such as N95 masks, protective gowns, goggles, latex gloves, and isolation gowns, maintain safety, nurse's confidence, and motivate each other among clinical nurses. Psychological crisis interventions by practitioners of psychologists, counsellor, and psychological experts will reduce fear, anxiety, panic, and insecurity among nurses. Personal activities can also improve emotional well-being through co-encouraging work activities, writing messages to provide positive reinforcement, actively listening to each other's concerns. (13).

CONCLUSION

The COVID-19 outbreak caused psychological problems in nurses such as disappointed, anxiety, fear, stress, posttraumatic stress disorder. This problem needs to be addressed so that nurses can work to implement nursing care optimally.

Strength and Limitation

This study builds on and expands recent systematic review impact COVID-19 on the psychological problem of nurses. The limited number of references specifically addresses nurses' psychological problems due to the COVID-19 outbreak.

53 tement of Conflicting Interests

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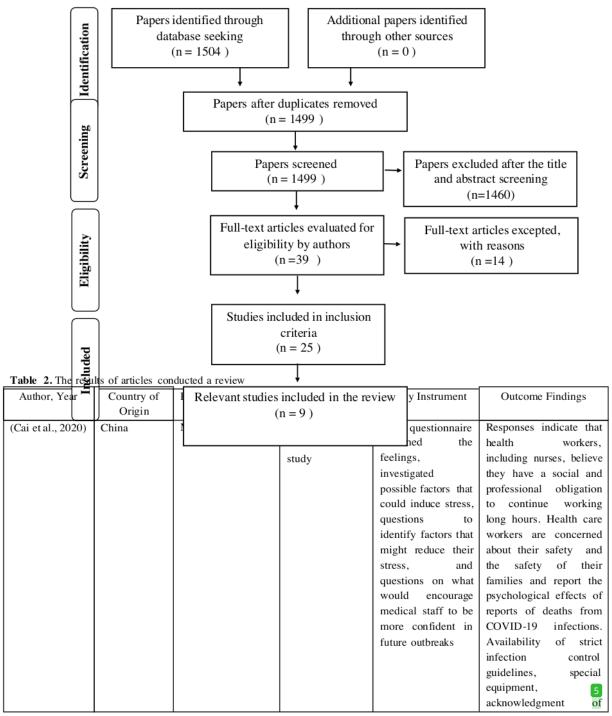
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					their efforts by hospital
					and government
					management, and
					reduction of reported
					COVID-19 cases tha
					provide psychological
	13			24	benefits.
(Chew et al	, Singapore	Doctors, nurses,	Invited to	Depression Anxiety	In the survey, 45.3%
2020)	and India	allied healthcare	participate in	Stress Scales 21	screened positive fo
		workers,	research by	and the Impact of	moderate to very-sever
		technicians,	filling out a self-	Events Scale-	depression, 8.7% fo
		administrators,	administered	Revised	moderate to extremely
		clerical staff and	questionnaire	instruments.	severe anxiety, 2.2% fo
		maintenance			moderate to extremely
		workers			severe stress, and 3.8%
					for moderate to severe
					levels of psychologica
					distress. The commonest
					reported symptom was
					headache 32.3%, with a
					large number o
					participants 33.49
					reporting more than fou
					symptoms. Participants
					who experienced
					symptoms in the
					previous month wer
					more likely to be older
					have pre-existin
					49 norbidities and
					screen positive fo
					depression, anxiety
					stress, and PTSD.
(Cui et al	, China	Emergency or fever	Cross-sectional	Simplified Coping	The participants
2020)	, , ,	outpatient(EFO)	study using data	Style	62.03% had no anxiety
2020)		nurses	obtained with	Questionnaire,	mptoms, 34% had
		nuises	online	Perceived Stress	mild anxiety, 3.53% had
			questionnaires	Scale-14 and The	moderate anxiety, an
			that are managed by themselves	Self-Rating Anxiety Scale	0.44% had seven anxiety. 32.23%
			by memserves	Allxlety Scale	participants with scores
					greater than 25 in the
					PSS, indicating
					excessive stress. 50.55%
					participants were more
					likely to respond
					positively to stress
	1				while 49.45% wer

					more likely to respond negatively.
(Huang et al., 2020)	China	Nurses and college nursing students	Online questionnaire survey	An Hui on a 5- point scale. Revised based on the Brief COPE prepared by Carver	Female nurses show higher anxiety and fear responses than men. Nurses from the city had more anxiety and fear than nurses from the countryside, but rural nurses showed more sadness 28 n urban nurses. The closer COVID-19 is to participants, the stronger their anxiet 16 and anger.
(Khoury & Karam, 2020)	Lebanon	Mental Healthcare	not mentioned	not mentioned	Increased symptoms of depression and anxiety in health care workers. The Lockdown phenomenon gradually improves with patients adapting progressively to telepsychiatric services. From a therapeutic perspective, there has been a change in the treatment modality chosen by older patients: because of fear, contamination, most of the older patients and their caregivers have avoided
(Maben & Bridges, 2020)	United Kingdom	Nurse	not mentioned	not mentioned	Nurses have the highest levels of work stress and the resulting stress compared to oth the stress compared to oth the highest workers. The COVID- 19 outbreak reflects high concern among nurses for their health status or family in the face of direct contact with potentially deadly and stressful viruses balancing these concerns with ethical

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survey-based,	Questionnaire,	who worked at the
region-stratified	Generalized	hospital in Wuhan were
study	Anxiety Disorder,	nurses 60.8%. Most
	Insomnia Severity	17 lth professionals
	Index and Impact	reported symptoms of
	of Event Scale-	depression 50.4%
	Revised	anxiety 44.6%, insomnia
		34.0%, and difficulty
		71.5%. Female nurses,
		front-line health care
		workers report more
		severe levels of al
		mental health symptom
		measurements than
		other health care
		workers front-line
		workers involved in the
		direct diagnosis
		treatment, and care of
		patients with COVID-19
		are associated with a
		higher risk of symptoms
		depression anxiety
		insomnia, and distress.

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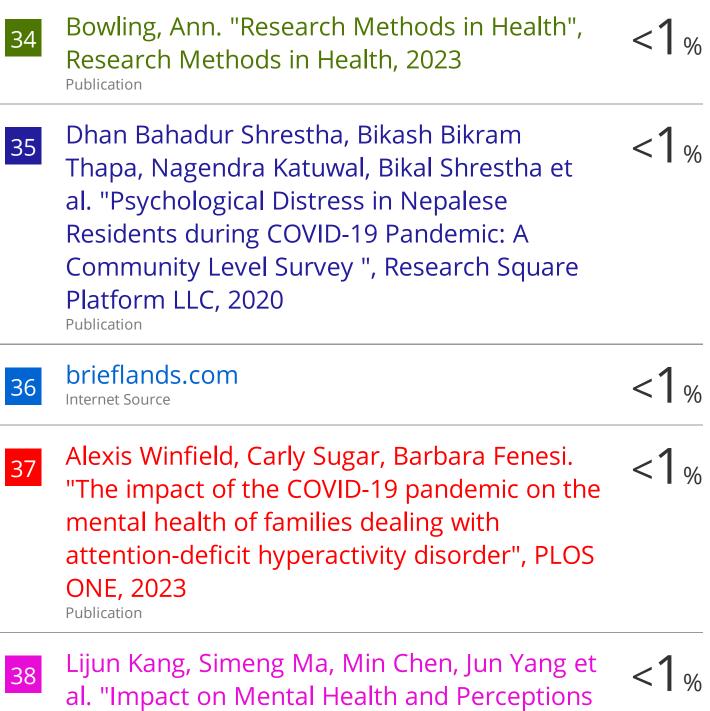
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