



Health Professional Stress during COVID-19 Pandemic

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Abstract

WHO declared the Coronavirus Disease 2019 (COVID-19) outbreak, caused by Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2), to be a pandemic on March 12th, 2020. In Morocco, the first case was reported in March 2nd, 2020. The mental health of general population, medical and nursing staff especially has been greatly challenged during the pandemic.

The aim of the present article is to explore the stress status of medical and nursing staff and the mental health risks associated with exposure of health professionals to the COVID-19 pandemic.

The present study describes the professionals stress. The medical staff was asked to complete a self-reported questionnaire anonymously. In University Hospital Mohamed VI, in Marrakesh, Morocco, during May 2020.

In total, 120 valid questionnaires were collected. Among them, there were 57 residents (47.5%), 30 interns (25%), 22 nurses (19%) and others: medicine students and technical staff. The age was between 23 years and 60 years. During the pandemic 15% of professional lived alone, 85% with their family, 74 % lived with an old person or with a person having a chronic disease.

In our study the answers about the pandemic characteristics were: The severity of symptoms in 36% of the asked professional, deaths among health professionals in 15%, death of a family member in 14%, the rapid spread of pandemic in 90%, the lack of knowledge in 83%, and finally contamination risk especially if comorbidity associated in 2%.

Further risk factors have been identified, including feelings of being inadequately supported by the hospital in 42%, fear of taking home infection to family members or others in 80%, being isolated, feelings of uncertainty and social stigmatization in 43%.

Additionally, the psychological presentation was the nightmare 19 in %, the insomnia in 48%, the somatization in 18%, the irritability in 22%, the aggressiveness in 14%, the nervousness in 70% and the drowsiness in 5%.

During the vulnerability of the individual's conditions during and after the COVID-19, psychological intervention should be done and a mental health support for the health professional.

Introduction

In December 2019, a novel Coronavirus Disease (COVID-19) was first reported in Wuhan, the capital city of Hubei Province of China [1]. The disease rapidly spread throughout China and elsewhere, becoming a global health emergency [2]. The COVID-19 pandemic has caused major sanitary crisis worldwide. Half of the world has been placed in quarantine [3].

In Morocco, the first case was reported in the March 2nd, 2020. The country took the necessary measures to fight against this pandemic: Border closures, containment, barrier measures.

The mental health of population in general, medical and nursing staff especially has been greatly challenged during the pandemic. Health professionals mobilized all their resources to provide emergency situation, in a general climate of uncertainty.

The aim of the present article is to explore the stress status of medical and nursing staff and the mental health risks associated with exposure to the COVID-19 pandemic.

This is the first paper on the stress caused by the specific working conditions, and associated to this pandemic of COVID-19, conducted in medical and nursing staff in Marrakesh.

Materials and Methods

This study is a qualitative and descriptive study. It was a cross-sectional survey; that included

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the medical and nursing staff of the University Hospital Mohamed VI in Marrakesh, Morocco. During May 2020, the professionals were asked to complete a self-reported questionnaire anonymously. The questionnaire evaluated the work stress; it consisted of demographic data, working conditions, questions and the qualitative evaluation of anxiety, of stress and of environment's problems.

In our context, we highlighted most relevant data concerning the personal factors, disease characteristics and the organizational factors contributing to psychological distress and other mental health symptoms.

Results

In total, 120 valid questionnaires were collected, with a response rate of 100%. Among them, there were 57 residents (47.5%), 30 interns (25%), 22 nurses (19%), and others: Medicine students and technical staff (8.5%). The age was between 23 and 60 years, with an old average: 29 years. In the staff: 37% were male and 63% were female, among the asked population; 40% were single and 60% were married. During the pandemic 15% of professional lived alone, 85% with their family, 74% lives with an old person or with a person having a chronic disease.

A generalized climate of stress and uncertainty, particularly among health staff was provoked by the general characteristics of the COVID-19 pandemic. In our study the answers about the pandemic characteristics were: The severity of symptoms in 36% of our staff, deaths among health professionals in 15%, death of a family member in 14%, the rapid spread of pandemic: In 90%, the lack of knowledge in 83%, and finally contamination risk especially if comorbidity associated in 2%.

Multiple organizational factors cause the stress; in our staff, many problems were revealed. The depletion of personal protection equipment in 54% of the workers, the deployment to a new area in 30%. Lack of access to information about rapidly changing information in 52% of the staff, lack of intensive care unit beds necessary to care for the surge of critically ill patients, specific drugs and the shortage of ventilators in 31%. Significant change in their daily social and family life 87%, lack of training in 2% and many phone calls from family and patients in 2%.

Further risk factors have been identified, including feelings of being inadequately supported by the hospital in 42%, fear of taking home infection to family members or others in 80%, being isolated, feelings of uncertainty and social stigmatization in 43%, and finally death anxiety in 14%.

Additionally, the personals were high levels of anxiety; we evaluated qualitatively that by psychological presentation: Nightmare 19 in %, insomnia in 48%, somatization in 18%, irritability in 22%, aggressiveness in 14%, and nervousness in 70% and drowsiness in 5%.

Discussion

Coronavirus Disease 2019 (Covid-19) is caused by SARS-CoV-2, a virus belonging to the Coronavirus family, no having any specific vaccine or any treatment. Since the end of December 2019, cases of COVID-19 have successively occurred in Wuhan in Hubei Province and other regions in China [4]. Control of the epidemic was challenging and the Coronavirus has continued to progress in all of the world; since its discovery.

In general population, COVID-19 is a global public health emergency. The mental health was affected by this new situation in

the world. There are psychological symptoms: anxiety, depression, distress, sleep disturbances, and suicidality [5]. Anxiety with a high level of death provoked by the alarming news, with an overwhelming number of new cases and fatalities, quarantine and lockdowns, social distancing, joblessness, the schools are closed and consequently the change in lives for the population.

Distress and anxiety are normal reactions to a situation as threatening and unpredictable as the Coronavirus pandemic. This uncertainty makes it difficult to plan and thus generates additional psychosocial stress. Possible stress-related reactions in response to the Coronavirus pandemic may include changes in concentration, irritability, anxiety, insomnia, reduced productivity, and interpersonal conflicts [6].

Healthcare workers are on the front lines of the Coronavirus outbreak, they are exposed to severe infectious disease, contagion fears, to working more, the separation from family, unusual situations, and feelings of failure in the face of poor prognoses and insufficient technical means to assist patients.

The effects clearly vary in terms of organizational unit, working hour model and status and position occupied. The psychological symptoms in front-line medical staff who participate in the fight against COVID-19, and they affect each other. The mental distress with their loss/separation from family, the self-injury, helplessness and posttraumatic stress. Also symptoms of addiction or substance use, medical mistrust and inclination towards conspiracies, panic attacks, depression, loneliness, suicidal ideation, mood problems, sleep problems, worry, denial, boredom, ambivalence, uncertainty, frustration, anger, fear, stigmatization, marginalization, xenophobia, mass hysteria, and other mental health [7].

During the pandemic, the psychological crisis intervention for affected, suspected, susceptible, and at-risk patients, families, staff, and the public, is urgently needed for timely prevention of inestimable hazards from secondary mental health crisis [8]. The interviews showed that humanistic community concern for health professional is mandatory, especially in the extraordinary circumstances.

Our hospital improved emergency management measures; strengthen psychological counseling for clinical front-line medical staff.

Conclusion

The severe COVID-19 would be expected to influence the mental health and psychological stress of local medical and nursing staff. The management of this new pandemic revealed important mental health disturbances and improve their physical health perceptions, factors and psychological assistance were identified.

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