Stress, anxiety and depression among healthcare workers facing COVID-19 pandemic in Egypt: a cross-sectional online-based study

Hebatalla Mohamed Aly,1 Nader Attia Nemr,2 Rania Mohammed Kishk,3 Noha Mohamed Abu bakr Elsaid1


ABSTRACT

Objective This study assessed perceived stress, anxiety and depression among healthcare workers facing the COVID-19 pandemic in Egypt.

Setting This was an online study where a Google form was prepared including sociodemographic and occupational data as well as three validated questionnaires to assess perceived stress, anxiety and depression, respectively. The form was distributed online to all social media groups including healthcare workers all across the country, and responses were collected until the sample size of 262.

Participants Healthcare workers (physicians, dentists, pharmacists, physiotherapists, nurses, technicians and administrators) working in governmental or educational hospitals from all Egyptian governorates who are members of social media groups. The mean age of participants was 33±5.9 years, 70% were women, about 70% were married and 66% were physicians.

Outcomes The frequency of perceived stress, anxiety and depression observed among the study participants according to the results of their questionnaires. Then the frequencies were compared between different sociodemographic characteristics.

Results Only 1.3% showed low perceived stress while 98.5% showed moderate to severe stress. About 9.5% did not experience generalised anxiety, while the remaining 90.5% had different degrees of anxiety as mild anxiety showed the highest per cent affecting about 40% of participants followed by moderate anxiety about 32% then severe anxiety, 18.5%. With regard to depression, 94% of participants showed mild to severe depression.

Conclusion This study showed a high prevalence of perceived stress, anxiety and depression among healthcare workers during the COVID-19 pandemic that affected all workers regardless of different sociodemographic characteristics.

INTRODUCTION

Coronaviruses are enveloped single-stranded RNA viruses of zoonotic nature that cause symptoms ranging from those similar to the common cold to more severe respiratory, enteric, hepatic and neurological symptoms.5 Other than SARS-CoV-2, there are six known coronaviruses known to humans: HCoV-229E, HCoV-OC43, SARS-CoV, HCoVNL63, HCoV-HKU1 and MERS-CoV.3 Coronavirus has caused two large-scale pandemics in the past two decades: SARS and MERS.3 In December 2019, a cluster of patients with idiopathic pneumonia was reported. They were linked to the South China local Huanan seafood market in Wuhan, Hubei Province, China.1

The WHO announced the occurrence of the novel coronavirus and declared it a Public Health Emergency of International Concern under the International Health Regulation on 30 January 2020. The novel coronavirus was officially named by the WHO as COVID-19 on 11 February 2020. The pandemic has not only caused a high mortality rate from viral...
infections but also psychological and mental effects on the rest of the world. On 30 May 2020, there were 5,819,962 confirmed cases of COVID-19 and 362,780 confirmed deaths worldwide. In Egypt, there were 22,082 confirmed cases of COVID-19 and 879 deaths in the same period. Egypt has implemented several preventative measures to fight COVID-19. The government of Egypt announced the extension of curfew across the country. It also announced the suspension of international air passenger arrivals. Progress has been made in expanding the number of peripheral laboratories able to test for COVID-19. Furthermore, Egypt maintained effective contact tracing with proper quarantine mechanisms, based on the current well-structured Infection Prevention and Control programme and continued systematic testing of patients seeking treatment for all acute respiratory infections.

The pandemic had resulted in the prevalence of a wide range of psychological problems such as fear, anxiety, stigma, prejudice, marginalisation towards the disease, and its relation to all people from healthy individuals and at-risk individuals to care workers. Mass quarantine could cause a sense of mass hysteria, fear and anxiety in healthcare workers (HCWs) working in hospitals as well as isolation units. Medical HCWs who are exposed and have direct contact with confirmed and suspected coronavirus cases are called frontline HCWs. They are prone to increased workload, higher risk of infection and mental health problems.

The COVID-19 pandemic has resulted in unprecedented psychological stress on HCWs, such as anxiety, fear, panic attacks, post-traumatic stress symptoms, psychological distress, stigma, avoidance of contact, depressive tendencies, sleep disturbances, helplessness, interpersonal and isolation from family and social support, as well as concerns about their friends and family being exposed to infection. Although mental health problems and psychosocial issues are common among HCWs, most health professionals do not often seek or receive regular mental healthcare.

In addition, the mental health problems of HCWs would negatively affect their attention, cognitive functioning and clinical decision-making, leading to a subsequent increase in the incidence of medical errors and incidents, and thus putting patients at risk. It was also well known that acute stress in disasters can have a long-term effect on overall well-being. Therefore, the mental health problems of HCWs in the COVID-19 pandemic have become an urgent public health concern.

Previous studies reported adverse psychological reactions to the 2003 SARS outbreak among HCWs. Studies showed that these HCWs were afraid of contagion and infecting their family, friends and colleagues, felt uncertainty and stigmatisation, reported reluctance to work or contemplating resignation. In addition, they reported increased high levels of stress, anxiety and depression symptoms, which could have long-term psychological implications. Psychological assistance services, including telephone, internet and application-based intervention, have been widely deployed by local and national mental health institutions in response to the COVID-19 outbreak. On 2 February 2020, the State Council of China has announced the establishment of nationwide psychological assistance hotlines to help during the pandemic. However, mental health interventions targeting HCWs are relatively scarce.

That is why addressing mental health issues of HCWs is essential to improving pandemic prevention as well as control. To date, research on the psychological impact of COVID-19 on HCWs is still under investigation. The current study aims to evaluate mental health outcomes among HCWs who interact with patients with COVID-19 by quantifying the magnitude of symptoms of depression, anxiety, and distress and by analysing the potential risk factors associated with these symptoms.

**Study objectives**

1. To assess perceived stress among HCWs facing the COVID-19 pandemic in governmental or educational hospitals.
2. To assess general anxiety among HCWs facing the COVID-19 pandemic in governmental or educational hospitals.
3. To assess depression among HCWs facing the COVID-19 pandemic in governmental or educational hospitals.
4. To find out the sociodemographic and occupational risk factors for stress, anxiety, as well as depression, among HCWs facing the COVID-19 pandemic in governmental or educational hospitals.

**MATERIALS AND METHODS**

**Study design**

A web-based cross-sectional survey to assess perceived stress, general anxiety and depression among HCWs facing the COVID-19 pandemic in Egypt.

**Study setting**

All governmental and educational hospitals dealing with suspected or confirmed cases of COVID-19 or their contacts in Egypt.

**Study population**

HCWs (physicians, pharmacists, dentists, physiotherapists, nurses, technicians, chemists and administrators) in the previously mentioned hospitals in Egypt dealing with suspected and confirmed cases of COVID-19 or their contacts.

**Sampling**

Sample size was calculated using Epi Info V.7 using the prevalence of anxiety, depression and perceived stress (20.2, 12.7% and 59%, respectively) with a confidence level 90% and a margin of error of 5%, and the study population is assumed to be 330,000 (which represents about 82,000 physicians and 250,000 nurses working in...
the Ministry of Health, which has the greatest per cent of HCWs). The highest sample size obtained was 262 participants.

**Sampling technique**
The link to the form was distributed to all social media and email groups including HCWs starting from May 2020. Responses were collected until the completion of the required sample on 22 June 2020. Three hundred and sixteen participants were collected.

**Patient and public involvement**
Participants were not involved in the design, conduct or documentation of the study. The title as well as the objectives of the paper was announced on social media groups including the target population, and the link was added.

The Google form link included informed consent about the study and the authors at the beginning, and participants have to agree to consent before proceeding with the questionnaires. Three hundred and sixteen complete responses were received representing all healthcare categories that deal with patients or their contacts during the COVID-19 pandemic in Egypt’s governmental or educational hospitals.

The mean age of the study participants was 33.4±5.9 years, 70% were women and about 70% were married (table 1). Participants represented HCWs from all over Egypt, as all governorates were represented with varying frequencies, with Ismailia showing the most frequent representation. The distribution of occupational categories for participating HCWs was as follows: physicians (66%) followed by other medical staff (pharmacists, dentists and physiotherapists) representing approximately 18% of the sample. The representation of nurses, technicians, chemists and hospital administration staff was lower (15.5% collectively). Among the physicians, paediatrics, chest, and anaesthesia and intensive care unit were the most frequent specialties ranging from 6% to 11% of the participating physicians.

After completing the study, the results and recommendations were published on the same social media groups that included the participants.

**Methods**
Four questionnaires were used:

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Sociodemographic characteristics of participants (n=316)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Characteristic</strong></td>
<td><strong>Frequency</strong></td>
</tr>
<tr>
<td>Age in years</td>
<td></td>
</tr>
<tr>
<td>&lt;30</td>
<td>75</td>
</tr>
<tr>
<td>≥30</td>
<td>241</td>
</tr>
<tr>
<td>Mean±SD</td>
<td>33.4±5.9</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>94</td>
</tr>
<tr>
<td>Female</td>
<td>222</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>76</td>
</tr>
<tr>
<td>Married</td>
<td>221</td>
</tr>
<tr>
<td>Divorced/widow</td>
<td>19</td>
</tr>
<tr>
<td>Having offspring (n=240)</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>26</td>
</tr>
<tr>
<td>Yes</td>
<td>214</td>
</tr>
<tr>
<td>Number of offspring (214)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>51</td>
</tr>
<tr>
<td>2</td>
<td>102</td>
</tr>
<tr>
<td>3</td>
<td>47</td>
</tr>
<tr>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>Occupational category</td>
<td></td>
</tr>
<tr>
<td>Physicians</td>
<td>209</td>
</tr>
<tr>
<td>Other medical staff (dentists, pharmacists, physiotherapists)</td>
<td>58</td>
</tr>
<tr>
<td>Nurses</td>
<td>19</td>
</tr>
<tr>
<td>Technicians</td>
<td>14</td>
</tr>
<tr>
<td>Administrative</td>
<td>16</td>
</tr>
</tbody>
</table>
1. Sociodemographic questionnaire (age, gender, marital status, occupational data like specialisation as well as place of work to know the representative governorate).

2. Perceived Stress Scale (PSS-10): consists of 10 questions about feelings and thoughts during the last month. Each case was asked to indicate how often they felt or thought in a certain way. The answers to each question are on a 5-rate scale, ranging from never to very often. Each answer has a score then the total score is calculated. Scores ranging from 0 to 13 are considered low stress. Scores 14–26 are considered moderate stress. Scores between 27 and 40 are considered high-perceived stress. We used a validated Arabic version.

3. Generalized Anxiety Disorder 7-item questionnaire (GAD-7): it consists of seven questions on feeling in the last 2 weeks. Answers are on a 4-rate scale ranging from not at all sure to nearly everyday. Each answer has a score then a total score will be calculated. We used a validated version in the Arabic.

4. Patient Health Questionnaire (depression module) 9 (PHQ-9): it consists of nine questions about feeling in the past 2 weeks. Answers are on a 4-rate scale, ranging from not at all to nearly all every day. Each answer has a score then the total score is calculated. A score of 1–4 indicates minimal depression. A score of 5–9 indicates mild depression. A score of 10–14 indicates moderate depression. A score of 15–19 indicates moderately severe depression. A score of 20–27 indicates severe depression. We used a validated version in Arabic.

All four questionnaires were displayed in one link on the Google form, including informed consent, and participants chose if they agree or disagree to fill the form. Confidentiality of the collected data: the collected data were kept secret for research use only. The participants were informed that responding is voluntary and that they can refuse to respond without stating any reason. The aims of the research were achieved without disturbing the harmony of the work rhythm. Feedback about the results of the study was announced to groups of participants at the end of the study.

RESULTS

Stress, anxiety and depression assessed among the participants using validated questionnaires, which are PSS-10, GAD-7 and PHQ-9, respectively, as well as the scores, are shown in table 2.

The grades of stress, depression and anxiety are shown in figures 1–3. As shown in figure 1, only 1.3% show low perceived stress, while 98.5% show moderate to severe stress. Figure 2 shows that 9.5% have no generalised anxiety, while the remaining 90.5% have different degrees of anxiety, whereas mild anxiety showed the highest percentage affecting about 40% of participants followed by moderate anxiety about 32% then severe anxiety, 18.5%. With respect to depression, about 6% of participants showed no or minimal degree of depression, and about 14% showed severe depression while the remaining 80% showed varying grades, from mild to moderately severe.

We have activated the ‘limit to one response’ option to avoid duplicate responses.

Data management

All data were entered in SPSS V.23. Quantitative data, such as age, were presented as mean and SD; while qualitative data, such as the frequency of perceived stress or depression, were presented as frequency and percentage. The difference between the frequency of mental health disorders among different sociodemographic categories was assessed by the X² test. Spearman’s correlation coefficient was used to study the strength of the association between different scores of mental disorders studied.

Ethical considerations

All the following ethical considerations were considered:

- Informed consent was written at the beginning of the Google form and participants chose if they agree or disagree to fill the form.
- Confidentiality of the collected data: the collected data were kept secret for research use only.
- The participants were informed that responding is voluntary and that they can refuse to respond without stating any reason.
- The aims of the research were achieved without disturbing the harmony of the work rhythm.
- Feedback about the results of the study was announced to groups of participants at the end of the study.

Table 2 Stress score according to Perceived Stress Scale (PSS-10), anxiety score according to Generalized Anxiety Disorder 7-item questionnaire (GAD-7) and depression score according to Patient Health Questionnaire 9 (PHQ-9)

<table>
<thead>
<tr>
<th>Score</th>
<th>Mean±SD</th>
<th>Median (range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSS-10 score</td>
<td>22.1±3.9</td>
<td>22 (0–33)</td>
</tr>
<tr>
<td>GAD-7 score</td>
<td>10.3±4.7</td>
<td>10 (1–21)</td>
</tr>
<tr>
<td>PHQ-9 score</td>
<td>12.6±5.8</td>
<td>12 (0–27)</td>
</tr>
</tbody>
</table>

Reminders were sent to participants to fill out the form, either through group posts or the inbox of members who were randomly selected.

To avoid losing data, the form was designed so that the answer to a question is mandatory to proceed to the next one, except for optional questions such as the name. Consequently, all 316 responses were complete with no data loss.

Figure 1 Perceived stress grade among study participants (n=316).
The coincidence of mental health disorders among study participants was assessed. The cut-off values used were: perceived stress score (≥14), anxiety score (≥5) and depression score (≥5). It was found that about 87% suffer from all the three disorders (stress, anxiety and some degree of depression), and only 3.5% suffer from one disorder.

The same cut-off values were used to compare the presence of each mental health problem between the different sociodemographic characteristics (table 3). The difference in the frequency of mental health problems between the different sociodemographic characteristics did not show a statistically significant difference.

**DISCUSSION**

This cross-sectional online survey received 316 responses. It was designed to investigate the impact of COVID-19 on mental health among HCWs during the COVID-19 pandemic. To our knowledge, this study is one of the leading studies to discuss this issue in Egypt. The study was conducted in the middle of the first wave of the pandemic in Egypt in the period from the beginning of May 2020 to the end of June 2020.

This study found a significant prevalence of the studied mental health problems of perceived stress, anxiety and depression: 98.5%, 90.5% and 94%, respectively. These findings were consistent with another study conducted in Egypt just prior to our study in April, and it also revealed a high prevalence of mental health problems: stress, anxiety and depression, 80.9%, 76.4%, 77.2%, respectively, among HCWs. Therefore, the situation became more critical in Egypt as the number of confirmed and suspected cases increased later. Moreover, due to the shortage of HCWs in Egypt which was 0.5 per 1000 people for physicians and 1.9 per 1000 for nurses as reported by the World Bank, physicians from all specialties, even dentists and pharmacists, were transferred from their hospitals to participate in the diagnosis, treatment of suspected or confirmed case, and follow up of contacts of confirmed cases.

Previous studies in different countries also reported a higher prevalence of mental health problems among HCWs compared with the general population due to their close and frequent contact with patients, working longer hours than usual, and continuous working in frightening, stressful and constrained conditions where they are exposed to constant threat of infection.

Some studies showed a high prevalence of mental health problems among HCWs, nonetheless, the frequencies found in the current study were much higher than other worldwide studies. For example, a previous study conducted in Italy investigated mental health symptoms during COVID-19 among HCWs who reported a prevalence of stress (21.90%), anxiety (19.80%) and depression (24.73%). Another systematic review conducted by Luo et al in 2020 found that the combined prevalence of anxiety and depression was 33% (95% CI: 28% to 38%) and 28% (95% CI: 23% to 32%), respectively. However, the prevalence of anxiety and depression in this review was similar between HCWs and the general public, which contradicts the previously mentioned studies of HCWs.

Another study of physicians and nurses in Wuhan reported a high prevalence of stress (71.5%), anxiety (44.6%) and depression (50.4%); nevertheless, this is still lower than the prevalence detected in our study and this can be attributed to the reason that 70.3% of our participants were women, 69.9% of them were married with 89.2% had offspring. All these characteristics were considered risk factors for higher psychological impact in a recent Egyptian study. The mean age of the current study participants was 33.4±5.9 years which indicates that participants had junior titles, and most of them had fewer years of work experience; this was consistent with Mazza et al who state that young age has more tendency to be stimulated by surrounding stressors.

Other risk factors for increasing mental health problems among HCWs in Egypt include an insufficient number of HCWs in Egypt leading to an increased workload and insufficient personal protective equipment (PPE) leading to an increased fear of infection risk. An Egyptian study that assessed the knowledge, attitude and perception of HCWs during COVID-19 found that despite the high degree of knowledge of physicians, the vast majority of HCWs were frightened and felt more likely to have COVID-19 infection (83.1% and 89.2%, respectively). Additionally, it showed that the unavailability of PPE, fear of transmitting disease to their families, social stigma, and
unsuitable workplace circumstances such as crowdedness and poor ventilation were the most commonly reported reasons for increased risk perception.34

Finally, the increased prevalence of mental health problems among study participants may also be related to the study period which extends from the beginning of May to the end of June where the situation in Egypt has become more critical with the increasing number of cases and deaths despite the probability of lower reported cases than the actual numbers.35 In addition, the number of doctors with confirmed infection during this period was reported to be about 430 with 68 deaths, with a mortality rate of 15.8% according to the Egyptian Medical Syndicate report, and this is considered high. This may also illustrate the higher level of stress, anxiety and depression among the HCWs in our study.36

Although the Egyptian Ministry of Health announced on 31 March that two hotlines for mental health were allocated in the General Secretariat to provide psychological support to all citizens including HCWs during the COVID-19 pandemic,25 37 our results showed that this was insufficient and comprehensive interventions are still needed.

The difference in the frequency of perceived stress, anxiety and depression among the study participants was compared with regard to different sociodemographic characteristics as age and gender but the difference was not statistically significant. This may indicate the impact of the pandemic on the mental health of all HCWs during this period regardless of different sociodemographic characteristics.

**Limitations of the study**

Representation of the different occupational categories was not equal as the study sample included 66% of physicians and the rest included different healthcare staff members, and thus it was not possible to make a comparison between the different occupational categories regarding mental health problems.

The study was performed via an online form and this was missed by some healthcare member participants, who may have been offline during this period or who may not have been interested in using social media.

**CONCLUSION**

This study showed the high prevalence of perceived stress, anxiety and depression among HCWs during the COVID-19 pandemic that affected all workers regardless of different sociodemographic characteristics.

**RECOMMENDATIONS**

- Targeted interventions are needed to enhance the psychological health of HCWs and reinforce the capacity of healthcare system during the pandemic.
- Adequate support should be ensured, appropriate education and training provided, in addition to guaranteeing adequate resources.
- Moreover, psychosocial needs should be monitored, and psychosocial services can be delivered via telemedicine.

**Contributors**

HMA—writing the protocol, ethics committee approval, data collection, data analysis and results writing, paper writing and editing. NAN—shared in data collection. RMK—shared in protocol writing and data collection. NMABE—shared in writing protocol, ethics committee approval, data collection, and paper writing and editing.

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**Competing interests**

None declared.

**Patient consent for publication**

Not required.

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**Table 3** Stress, anxiety and depression among different sociodemographic characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Stress (≥14) (n=312)</th>
<th>Anxiety (≥5) (n=286)</th>
<th>Depression (≥5) (n=297)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age in years</td>
<td>73 (97.3%)</td>
<td>66 (88%)</td>
<td>70 (93.3%)</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>≥30</td>
<td>239 (99.2%)</td>
<td>220 (91.3%)</td>
<td>241</td>
</tr>
<tr>
<td>P value</td>
<td>0.240*</td>
<td>0.396†</td>
<td>0.783*</td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
<td>92 (97.9%)</td>
<td>81 (86.2%)</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>220 (99.1%)</td>
<td>205 (92.3%)</td>
<td>222</td>
</tr>
<tr>
<td>P value</td>
<td>0.585*</td>
<td>0.087†</td>
<td>0.083†</td>
<td></td>
</tr>
<tr>
<td>Marital status</td>
<td>Married</td>
<td>220 (99.5%)</td>
<td>198 (89.6%)</td>
<td>221</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>92 (96.8%)</td>
<td>88 (92.6%)</td>
<td>95</td>
</tr>
<tr>
<td>P value</td>
<td>0.083*</td>
<td>0.398†</td>
<td>0.713*</td>
<td></td>
</tr>
<tr>
<td>Offspring</td>
<td>No</td>
<td>98 (98%)</td>
<td>90 (90%)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Yes</td>
<td>214 (99.1%)</td>
<td>196 (90.7%)</td>
<td>216</td>
</tr>
<tr>
<td>P value</td>
<td>0.594*</td>
<td>0.835†</td>
<td>0.995†</td>
<td></td>
</tr>
</tbody>
</table>

*Fisher’s exact test. †Χ² test.

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Ethics approval The study was approved by the Ethics Committee of the Faculty of Medicine, Suez Canal University on 5 May 2020 with approval number 4168.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available upon reasonable request. All participants’ data are coded and are available in an Excel sheet. The ethics committee-approved protocol is available and data analysis output sheet is available. All these data are already present with the corresponding author; if there is reasonable request, data will be sent.

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REFERENCES

اضطرابات الصحة النفسية بين العاملين في المجال الصحي في الخطوط الأمامية لمواجهة جائحة فيروس كورونا المستجد (covid 19)

ورة بحثية يقوم بها د/ هبة الله محمد علي (مدرس طب مهني كلية الطب - جامعة قناة السويس) و د. ن. محمد أبو بكر (مدرس الصحة العامة كلية الطب - جامعة قناة السويس)

* Required

أتت الدراسات أن وجود جائحة يؤدي إلى ظهور مشاكل نفسية منها التوتر والقلق والاكتئاب و مشاكل ăn و الاعزال. يعد الفريق الطبي الذي يعمل في الصفوف الأولى لمواجهة الجائحة من أكثر الناس عرضة لهذه المشاكل النفسية. سوف تقوم هذه الدراسة بعمل سحح (survey) يقوم في الصفوف الأولى لمواجهة حالات الاتصالة والتآكل لفirates في مصرية مستشفيات الجراح و العزل لبعض المشاكل النفسية مثل التوتر والقلق والاكتئاب ب المستخدم 19 استبيان يبحث أن يستغرق حوالي 5 دقائق

المواكبة المستثمرة

لا تشمل بعض كبار نوني و لبعد إنتهاء الدراسة سيتم الإبلاغ بأي نتائج تتعلق بحالتك الصحية

: عند وجود استفسار يمكنك الاتصال ب

الباحث الرئيسي : د/ هبة الله محمد علي

تليفون/ 0122390956

1. بعد الإطلاع على الموافقة هل توافق على المشاركة في البحث

Mark only one oval.

☐ نعم

☐ لا

2. الاسم (اختياري)

3. السن *

https://docs.google.com/forms/d/12i6d-4wDUWnCmoRAha9YIn1yz9Qm2pEWSyBv7EpZw4/edit
4. النوع *

Mark only one oval.

☐ ذكر
☐ أنثى

5. الحالة الاجتماعية *

Mark only one oval.

☐ أعزب
☐ متزوج
☐ أرمل
☐ مطلق

6. هل لديك أبناء؟ *

Mark only one oval.

☐ نعم
☐ لا

7. إذا كانت الإجابة نعم كم عددهم؟

Mark only one oval.

☐ 1
☐ 2
☐ 3
☐ 4
☐ >= 5
☐ 0
8. التخصص *

9. مكان العمل *

Mark only one oval.

- مستشفى حميات
- مستشفى صدر
- مستشفى عزل
- أخرى

(إذكر اسم المستشفى (اختياري)

قياس التوتر

10. كم من الوقت شعرت بالاضطراب نتيجة حصول حادثة غير متوقعة؟ *

Mark only one oval.

- بياناً 0
- شبه بياناً 1
- أحياناً 2
- غالباً 3
- غالباً جداً 4
اضطرابات الصحة النفسية بين العاملين في المجال الصحي في الحدود الأمامية لمواجهة فيروس كورونا المستجد (covid 19)

12. كم من الوقت شعّرت بعدم قدرتك على التحكم بالأمور المهمة في حياتك؟ *

Mark only one oval.

- 0. بثنا
- 1. شبه بثنا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا

13. كم من الوقت شعّرت بالتوتر والضغط النفسي؟ *

Mark only one oval.

- 0. بثنا
- 1. شبه بثنا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا

14. كم من الوقت شعّرت بالثقة حياتك قد كنinka ئ على التعامل مع مشاكلك الشخصية؟ *

Mark only one oval.

- 0. بثنا
- 1. شبه بثنا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا
اضطرابات الصحة النفسية بين العاملين في المجال الصحي في الخطوط الأمامية لمواجهة فيروس كورونا المستجد (covid 19)

15. *كم من الوقت شعرت أن الأمور تجري حسب مشيئتك؟*

Mark only one oval.

- 0. ببتانا
- 1. شبه ببتانا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا

16. *كم من الوقت شعرت بعدم قدرتك على التكيف مع جميع الأمور التي علقت عليها؟*

Mark only one oval.

- 0. ببتانا
- 1. شبه ببتانا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا

17. *كم من الوقت شعرت أنك قادر على التحكم بمصادر الراحة في حياتك؟*

Mark only one oval.

- 0. ببتانا
- 1. شبه ببتانا
- 2. أحيانا
- 3. غالبا
- 4. غالبا جدا
اضطرابات الصحة النفسية بين العاملين في المجال الصحي في الخطوط الأمامية لمواجهة جائحة فوروس كورونا المستجد (covid 19)

18. كم من الوقت شعرت أنك تتحكم بجميع الأمور؟

Mark only one oval.

- 0
- 1
- 2
- 3
- 4

19. كم من الوقت شعرت بالغضب بسبب أمور خارجة عن سيطرتك؟

Mark only one oval.

- 0
- 1
- 2
- 3
- 4

20. كم من الوقت شعرت أن المصاعب تتراكم لدرجة لا يمكنك التحكم بها؟

Mark only one oval.

- 0
- 1
- 2
- 3
- 4

قياس القلق

https://docs.google.com/forms/d/12i6d-4wDUWnCmoRAha9Yln1yz9Qm2pEWSyBv7EpZw4/edit
21. الشعور بالغضب أو القلق أو الأفعال الشديدة. *

Mark only one oval.

☐ أبداً 0
☐ بعض الأسابيع 1
☐ أكثر من نصف الأسبوع 2
☐ كل يوم تقريباً 3

22. عدم القدرة على إنهاء القلق أو التحكم فيه. *

Mark only one oval.

☐ أبداً 0
☐ بعض الأسابيع 1
☐ أكثر من نصف الأسبوع 2
☐ كل يوم تقريباً 3

23. التقلص المفرط على أشياء مختلفة. *

Mark only one oval.

☐ أبداً 0
☐ بعض الأسابيع 1
☐ أكثر من نصف الأسبوع 2
☐ كل يوم تقريباً 3
الصرعية في الاسترخاء.

Mark only one oval.

☐ أبداً.
☐ بعض الأيام.
☐ أكثر من نصف الأيام.
☐ كل يوم تقريباً.

شدة الاضطراب لدرجة صعوبة البقاء في هدوء.

Mark only one oval.

☐ أبداً.
☐ بعض الأيام.
☐ أكثر من نصف الأيام.
☐ كل يوم تقريباً.

السرعة في الانزعاج أو الانفعال.

Mark only one oval.

☐ أبداً.
☐ بعض الأيام.
☐ أكثر من نصف الأيام.
☐ كل يوم تقريباً.
الشعور بالخوف كما لو أن شيئاً فظيعاً قد يحدث.

*Mark only one oval.*

- أبداً. 0
- بعض الأيام. 1
- أكثر من نصف الأيام. 2
- كل يوم تقريباً. 3

استبان عن الانتكاب

28. قلة الاهتمام أو الاستمتاع بممارسة الأشياء.

*Mark only one oval.*

- أبداً. 0
- بعض الأيام. 1
- أكثر من نصف الأيام. 2
- كل يوم تقريباً. 3

29. الشعور بالحزن أو ضيق الصدر أو الارس.

*Mark only one oval.*

- أبداً. 0
- بعض الأيام. 1
- أكثر من نصف الأيام. 2
- كل يوم تقريباً. 3
الصعوبة في الاركمة إلى النوم أو النوم بانتظام أو النوم أكثر من العادة * 

Mark only one oval.

- أبداً 0
- بعض الأيام 1
- أكثر من نصف الأيام 2
- كل يوم تقريباً 3

الشعور بالتعب أو بقلة الحيوية * 

Mark only one oval.

- أبداً 0
- بعض الأيام 1
- أكثر من نصف الأيام 2
- كل يوم تقريباً 3

قلة الشهيء أو كثرة الأكل * 

Mark only one oval.

- أبداً 0
- بعض الأيام 1
- أكثر من نصف الأيام 2
- كل يوم تقريباً 3
33. الشعور بعدم الرضا عن النفس أو بالفشل أو الإحباط تجاه ذويك.

*Mark only one oval.*

- أبداً 0.
- بعض الأيام 1.
- أكثر من نصف الأسبوع 2.
- كل يوم تقريباً 3.

34. الصعوبة في التركيز على الأشياء، مثل قراءة الصحف أو مشاهدة التلفزيون.

*Mark only one oval.*

- أبداً 0.
- بعض الأيام 1.
- أكثر من نصف الأسبوع 2.
- كل يوم تقريباً 3.

35. بطء في الحركة أو الكلام بدرجة ملحوطة من الآخرين أو على العكس من ذلك كثرة التملل والتحرك إلى درجة فوق العادة.

*Mark only one oval.*

- أبداً 0.
- بعض الأيام 1.
- أكثر من نصف الأسبوع 2.
- كل يوم تقريباً 3.
الشعور بتفضيل الموت عن الحياة أو بابدأ النفس بطريقة ما

Mark only one oval.

- أبداً 0  
- بعض الأيام 1  
- أكثر من نصف الأيام 2  
- كل يوم تقريباً 3

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