Anxiety level and COVID-19 awareness of patients in a non-COVID-19 outpatient clinic of a pandemic hospital

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ABSTRACT

Background and Aims: The aim of this study is to investigate the COVID-19 awareness and anxiety levels of patients who visited the outpatient department in a hospital.

Methods: A questionnaire for socio-demographic data and COVID-19 awareness, Beck Anxiety Scale (BAS), and Hospital Anxiety and Depression Scale (HADS) data were collected from patients who volunteered to participate in the study. Counts, percentages, independent groups t-test, and correlation analysis were used during statistical data analysis. Those patients who were over 18 years of age, literate, having no psychiatric disorder and from whom informed consent was obtained were included in the study. Patients younger than 18 years of age, patients who had psychiatric disorders, and illiterate patients were excluded.

Results: The questionnaire form and scales were distributed to 254 patients, while 210 patients were included in the study. Therefore, the response rate from the patients was 82.7%. The mean age of the patients participating in this study was 44.41 years ±16.9 SD. The BAS scores of patients over 65 years of age were significantly higher than the patients at younger ages (p<0.001). The percentage of female patients was 42.6% (n=89) and that of males was 57.4% (n=120). Both the BAS scores (p<0.001) and HADS scores (p<0.01) of the female patients were significantly higher than those of the male patients.

Conclusion: The BAS and HADS scores of females were found to be significantly higher than those of the males. Although the mean of the BAS scores of the patients was low, the BAS scores of those women who were at an age of 65 years or above, and those who had secondary school education or below, were significantly higher. Therefore, related research focusing on these groups should be conducted in the future.

Keywords: COVID-19, Awareness, Beck anxiety scale, Hospital anxiety and depression scale

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INTRODUCTION

Coronavirus disease 2019 (COVID-19) is a rapidly spreading and deadly infectious disease affecting the respiratory tract caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Respiratory failure, acute respiratory distress syndrome, and thromboembolism are among the main complications leading to death. The spread of the infection is higher in crowded and poorly ventilated areas. These environments are the areas where the virus spreads more rapidly with respiratory droplets or aerosols (World Health Organization [WHO], 2021a).

The environment that affects the host, agent, and their interactions plays an important role in the spread of infectious diseases. Poverty, education, pollution, sanitation, crowds, availability of health services, and biological factors are among the environmental factors associated with the infection (Koley & Dhole, 2020). According to the WHO, it has been reported that, as of April 13, 2022, there were 499,119,316 confirmed cases for COVID-19. The best way to prevent COVID-19 infection is to avoid exposure to the virus. Washing hands frequently, avoiding sick people and crowds, wearing masks in communal areas, and covering the mouth and nose while coughing and sneezing are among the measures that individuals can apply (Centers for Disease Control and Prevention, 2021).

Individual responsibilities are critical for the prevention of COVID-19 infection. This is related to the health literacy level of society. According to the WHO, health literacy is defined as “the knowledge, motivation and competencies to understand, evaluate and apply health care knowledge to prevent diseases and improve health.” Health literacy includes the ability of individuals to access accurate information and services and to use this information and service to improve both their own and public health (Kickbusch, Pelikan, Apfel, & Tsouros, 2013). Therefore, high health literacy is associated with the implementation of individual practices to prevent COVID-19 infection.

The COVID-19 pandemic is having a major impact on the capacity of health systems to deliver primary health care. While health systems around the world are struggling with increasing demand for care of COVID-19 patients, sustaining preventive and curative services is critical, especially for the most vulnerable groups, such as children, the elderly, those with chronic diseases, minorities, and the disabled. Since the emergence of the COVID-19 outbreak, people are more vulnerable to non-communicable diseases and become severely ill or die from COVID-19 (WHO, 2020a).

Comprehensive measures are needed to prevent and control COVID-19 transmission in the community. Particular measures should be put into practice, especially for the elderly, healthcare professionals, and individuals who are susceptible to infection (European Centre for Disease Prevention and Control, 2020).

The current study aims to examine the anxiety level and COVID-19 awareness of patients who have visited the non-Covid-19 outpatient clinic of a pandemic hospital.

MATERIAL AND METHODS

This cross-sectional study was performed on patients who visited the orthopedics and traumatology outpatient clinic of a training and research hospital and who were examined by the same orthopedics and traumatology physician. The hospital is located in the Eastern Black Sea Region of Turkey and the study was conducted between June 15, 2020 and October 15, 2020. During this period, the hospital served as a pandemic hospital for COVID-19.

Those patients over the age of 18, who were literate, who did not have any known psychiatric disorder, and who had voluntarily agreed to participate in this study were included in the scope of the study. Patients younger than 18 years of age, patients who had psychiatric disorders, and illiterate patients were excluded. The sample size was calculated with the sample calculation formula that is used in cases when the sample universe is uncertain (t:1.96, p:0.50, q:0.50, d:0.05). The resulting sample size was determined to be 210. This cross-sectional study complies with the principles of the Helsinki Declaration, and the study was also approved by the local ethics committee of Giresun University (Ethics Committee Number: 22.05.2020/15).

The data regarding the socio-demographic characteristics were obtained with a questionnaire form also including questions about COVID-19, which was created through a literature search (Wolf et al., 2020). The questionnaire included questions about the age, gender, and residency of the patients, in addition to questions asking the opinions of patients regarding COVID-19 infection, how it is transmitted, from which sources the patient obtains information about the infection, and protection measures for the infection.

The Beck Anxiety Scale (BAS) (Beck, Epstein, Brown, & Steer, 1988; Ulusoy, Şahin, & Erkmen, 1998) and Hospital Anxiety and Depression Scale (HADS) (Zigmond & Snaith, 1983; Aydemir, Güvenir, Küey, & Kütür, 1997) were also used for data collection. BAS was developed by Beck et al. (1988). Ulusoy et al. (1998) reported the validity and reliability of the scale for Turkish. BAS provides information about the anxiety and concerns that the individual has experienced during the previous week. The minimum and maximum scores that can be obtained from this scale (consisting of 21 questions) are 0 and 63, respectively (Beck et al., 1988; Ulusoy et al., 1998). Zigmond and Snaith (1093) developed HADS in 1983. It is a self-assessment scale regarding the anxiety and depression symptoms of patients undergoing hospital admission. The scale consists of 14 questions. Seven of the questions in the scale are about anxiety and the remaining seven are about depression. Aydemir et al. (1997) reported the validity and reliability of the scale for Turkish.

SPSS Software Package version 18 from IBM, which is based in the USA, was used for data analysis. Counts, percentages, independent groups t-test, and correlation analysis were used for statistical data analysis.

RESULTS

The data was collected from 210 patients who satisfied the requirements for the study and agreed to fill out the forms.
Patients younger than 18 years of age, patients who had psychiatric disorders, and illiterate patients were not included in the study. The questionnaire and scales were provided to 254 patients and responses from 210 of them were obtained. Therefore, the response rate was calculated as 82.7%. The socio-demographic characteristics of the patients are presented in Table 1. The mean age of the participants in this study was 44.41±16.9. 42.6% (n=89) of the participants were females and 53.6% (n=89) of them were living in the city. In this study, 41.0% (n=86) of the patients were high school graduates or had higher levels of education. 41.0% (n=86) of hospital visits took place through patients directly going to the hospital.

29.5% of the patients declared that they had researched their diseases on the internet before coming to the hospital, and the percentage of those who had visited the hospital for the same disease before was 52.4%. 32.9% of the participants stated that they were smokers. The percentage of the patients with alcohol use was 12.9%, and the percentage of those who stated that they had a nail-biting habit was 8.6%.

A comparison of the BAS and HADS scores of the patients according to some variables is provided in Table 2. The mean BAS and HADS score of the patients was 7.92±13.3 and 13.03±6.57, respectively. An independent groups t-test was applied. Those patients aged 65 or over had significantly higher BAS scores than patients aged 64 and under (p<0.001). There was no significant difference in the HADS scores between these two groups (p>0.05).

The mean BAS and HADS scores of female patients were significantly higher than that of male patients (p<0.001).

The mean BAS score of the patients with an education level of secondary school or below was significantly higher than that of the patients with high school and above education (p<0.001). There was no significant difference between the mean HADS scores with respect to the education level (p>0.05).

Regarding the method of making an appointment at the hospital, there was no significant difference in the BAS scores of the patients who received an appointment remotely via the central physician appointment system and those who directly made an appointment at the hospital (p>0.05). In addition, HADS scores were also comparable between these two groups (p>0.05).

The mean BAS scores of smokers were significantly lower than that of the non-smokers (p<0.01). No significant difference was found between the mean HADS scores of smoking and non-smoking patients (p>0.05).

No significant difference was observed between the mean BAS and HADS scores among the patients who used alcohol and those who did not (p>0.05).

There was no significant difference between the BAS and HADS scores of the patients with and without a nail-biting habit (p>0.05).

The knowledge and the attitudes of the patients regarding COVID-19 are presented in Table 3. 81.1% of the patients participating in this study considered COVID-19 infection to be a very severe public health problem. 51.9% of the patients who visited the hospital stated that they were a little worried about COVID-19 infection at the time of application, and the percentage of those who were very worried was 38.6%.

While 72.4% of the patients stated that COVID-19 was transmitted by the respiratory tract, 60.5% stated that it was transmitted by hands.

In this study, 81.4% of the patients stated that they obtained information about COVID-19 from television, 41.4% from social media, and 19.0% from announcements.

In order to protect themselves against COVID-19 infection, 78.1% of the patients stated that they used masks, 76.7% said that they stayed distant from other people, and 27.6% of them said that they prayed.

The findings showed that there was significant difference about the concern about COVID-19 infection at the hospital.

### Table 1. Socio-demographic characteristics of the participants and their distribution according to some variables.

| Characteristics                  | N   | %   |
|----------------------------------|-----|-----|
| **Age**                          |     |     |
| 18-64                            | 179 | 85.3 |
| 65↑                              | 27  | 12.9 |
| **Gender**                       |     |     |
| Female                           | 89  | 42.6 |
| Male                             | 120 | 57.4 |
| **Residency**                    |     |     |
| Village                          | 42  | 25.3 |
| Town                             | 34  | 20.5 |
| City                             | 89  | 53.6 |
| **Education**                    |     |     |
| Secondary School and↓            | 101 | 48.1 |
| High School and↑                 | 86  | 41.0 |
| **Method of making an appointment at the hospital** | | |
| Directly and in person           | 86  | 41.0 |
| Central physician appointment system | 42  | 20.0 |
| **Internet search of the current symptom** | | |
| Yes                              | 62  | 29.5 |
| No                               | 146 | 69.5 |
| **Previous visits to the health institution** | | |
| Yes                              | 110 | 52.4 |
| No                               | 93  | 44.3 |
| **Smoking**                      |     |     |
| Yes                              | 69  | 32.9 |
| No                               | 135 | 64.3 |
| **Alcohol consumption**          |     |     |
| Yes                              | 27  | 12.9 |
| No                               | 167 | 79.5 |
| **Nail-biting**                  |     |     |
| Yes                              | 18  | 8.6 |
| No                               | 181 | 86.2 |
between the age groups of 64 and lower, and of 65 and above (p<0.05). There was no significant difference between the education levels of the patients with respect to the concern about COVID-19 infection at the hospital (p>0.05).

While 29.5% of the patients stated that they were very worried about visiting the hospital because of COVID-19 infection, 53.8% of patients expressed that they were a little worried. With respect to age, there was no significant relationship between the levels of worry due to COVID-19 in hospital admission (p>0.05). However, there was a significant relationship between the genders and alcohol use in the level of worry about COVID-19 (p<0.05). Additionally, the worry levels were significantly higher among patients with nail-biting habits (p<0.05).

There was a significant negative correlation between the HADS of the patients and the anxiety which they felt due to COVID-19 because of coming to the hospital (p<0.05). There was a negative correlation between the HADS score and the worry about getting COVID-19 infection. As the HADS score increases, the worry about getting COVID-19 infection decreases (p<0.05).

The percentage of those patients who thought they would definitely get COVID-19 infection was 29.5%, while the percentage of those who stated they would most likely get the infection was 53.8%. Female patients were more prone to think that they would get COVID-19 infection than the male patients (p<0.05). No significant difference was found regarding age, education level, smoking, alcohol use, and nail-biting habits between the method of making an appointment at the hospital and thinking that they might get a COVID-19 infection (p>0.05).

**DISCUSSION**

COVID-19 infection is known to spread faster among individuals (with respiratory droplets and aerosols) who stay in the same place with others who are infected, especially in crowded and poorly ventilated areas. Therefore, it is critical to take the necessary measures. The measures for protection from COVID-19 infection require self-responsibility, such as physi-

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**Table 2. Comparison of the Anxiety (BAS) and Hospital Anxiety (HADS) levels of the patients participating in this study according to some variables.**

| Characteristics                        | BAS    | p     | HADS                     | p     |
|----------------------------------------|--------|-------|--------------------------|-------|
|                                        |        |       | total score              |        |
| Age                                    |        |       | anxiety                  |        |
| 64 age and ↓                           | 7.09±7.1 | <0.001 | 12.97±6.5 | >0.05 |
| 65 age ↑                               | 15.53±12.5 |       | 12.23±7.0 | 6.2±3.9 | >0.05 |
|                                        |        |       | depression               |        |
|                                        |        |       | 6.6±3.6 | >0.05 |
| Sex                                    |        |       |                          |        |
| Female                                 | 11.03±9.3 | <0.001 | 14.55±6.6 | <0.01 |
| Male                                   | 5.73±6.2 |       | 11.84±6.2 | 7.7±4.1 | <0.001 |
|                                        |        |       |                          |        |
| Education                              |        |       |                          |        |
| Secondary school and ↓                 | 10.40±9.4 | <0.001 | 14.31±6.8 | >0.05 |
| High School and ↑                      | 6.17±6.7 |       | 12.04±6.4 | 7.5±4.3 | <0.01 |
|                                        |        |       |                          |        |
| Method of making an appointment at the hospital |        |       |                          |        |
| Directly and in person                 | 7.52±8.8 | >0.05 | 12.36±6.61 | 5.9±3.7 | >0.05 |
|                                        |        |       |                          |        |
| Internet search of the current symptom |        |       |                          |        |
| Yes                                    | 7.97±7.5 | >0.05 | 11.90±6.0 | >0.05 |
| No                                     | 7.89±8.3 |       | 13.55±6.7 | 6.5±3.6 | >0.05 |
|                                        |        |       |                          |        |
| Smoking                                |        |       |                          |        |
| Yes                                    | 6.34±5.9 | <0.01 | 12.60±6.6 | >0.05 |
| No                                     | 8.57±8.8 |       | 13.50±6.4 | 6.1±4.1 | >0.05 |
|                                        |        |       |                          |        |
| Alcohol consumption                    |        |       |                          |        |
| Yes                                    | 12.9±6.5 | >0.05 | 7.96±8.3 | >0.05 |
| No                                     | 13.2±6.7 |       | 7.61±7.1 | 6.0±3.6 | >0.05 |
|                                        |        |       |                          |        |
| Nail-biting                            |        |       |                          |        |
| Yes                                    | 8.40±8.2 | >0.05 | 12.64±5.3 | >0.05 |
| No                                     | 6.33±6.8 |       | 13.15±6.7 | 6.0±3.6 | >0.05 |
|                                        |        |       |                          |        |
| Place of residence                     |        |       |                          |        |
| Urban                                  | 7.6±7.5 | >0.05 | 12.9±6.3 | >0.05 |
| Suburban and Rural                     | 8.2±9.5 |       | 12.4±3.7 | 5.9±3.9 | >0.05 |
|                                        |        |       |                          |        |
|                                        |        |       |                          |        |
|                                        |        |       |                          |        |
Hospitals in Türkiye provide patients with two options to make an appointment for examination in a hospital. One of them is the central physician appointment system, which can be accessed via telephone or internet (i.e., remotely) before coming to the hospital for examination. The other choice for patients is a direct hospital appointment, where the patient has to come to the hospital in this case. Making an appointment remotely/previous via telephone or internet provides minimal time spent in the hospital, while those patients who make the appointment directly at the hospital spend more time in the hospital for examination. In this study, only 20% of the patients stated that they made their hospital appointments via the central physician appointment system. The patients who make a hospital appointment directly and in person are more likely to get a COVID-19 infection. The COVID-19 pandemic demonstrated the importance of digital health solutions during the crisis and the need to further align digital health initiatives in the future, both of which facilitates the lives of people on the front lines of the crisis (Fagherazzi, Goetzinger, Rashid, Aguayo, & Huiart, 2020). Digital technologies can facilitate the provision of healthcare services during the pandemic (WHO, 2021b; Giolinelli, 2020).

The mean BAS scores of the patients were low. However, the BAS scores of those women who were at an age of 65 years or above, those who have secondary school education or below, and those who do not smoke were significantly higher. Similar to our study, in Hyland et al.’s (2020) study, the anxiety level of individuals aged 65 and over was higher than those of individuals at younger ages. This may be because COVID-19 is a severe infection and the mortality rate is higher among individuals aged 65 and over. In a related study by Özdin et al. (2020) on anxiety and depression levels during the pandemic, it was also found that women are psychologically more affected by the pandemic. The mean of the HADS scores given in Özdin et al. (2020) was lower than the corresponding mean HADS score that we observed in our study.

The HADS scores of patients were high. While there was no significant difference between the HADS scores considering other

| Characteristics                                      | N   | %   |
|------------------------------------------------------|-----|-----|
| How severe is COVID-19 as a public health problem?   |     |     |
| Mild                                                 | 2   | 1.0 |
| Moderate                                             | 14  | 6.7 |
| Very Severe                                          | 170 | 81.0|
| How worried are you about COVID-19 infecting you?    |     |     |
| I’m not worried                                       | 12  | 5.7 |
| I’m a little worried                                  | 109 | 51.9|
| I am very worried                                    | 81  | 38.6|
| Were you worried about COVID-19 on your way to the hospital? |     |     |
| Never worried                                        | 20  | 9.5 |
| A little worried                                      | 113 | 53.8|
| I was overly worried                                 | 62  | 29.5|
| Do you think you will get sick due to the COVID-19 outbreak? |     |     |
| Impossible                                           | 20  | 9.5 |
| Most probably                                        | 113 | 53.8|
| Absolutely                                            | 62  | 29.5|
| How is COVID-19 infection transmitted?               |     |     |
| By inhalation                                        | 152 | 72.4|
| With body fluids                                     | 31  | 14.8|
| With hands                                           | 127 | 60.5|
| Where did you obtain information on COVID-19 infection? |     |     |
| Television                                           | 171 | 81.4|
| Social media                                         | 87  | 41.4|
| Health personnel                                     | 81  | 38.6|
| Announcement                                         | 40  | 19.0|
| What are the precautions you take against COVID-19 infection? |     |     |
| Using a mask                                         | 164 | 78.1|
| Distance from people                                 | 161 | 76.7|
| Washing hands                                        | 158 | 75.2|
| Paying attention to nutrition                        | 98  | 46.7|
| Praying                                              | 58  | 27.6|
| Not smoking                                          | 53  | 25.2|
variables, the HADS scores of the female patients were significantly higher than that of males. Similar to our results, in the study conducted by Argüder et al. (2020), the HADS scores due to COVID-19 were significantly higher among female patients.

While 81.0% of the patients participating in this study stated that they considered COVID-19 to be a very severe public health threat, 8.7% described it as a mild or moderate public health problem. In our study, no significant relationship was found between the ages of the patients and the perception of COVID-19 as a threat (p<0.05). Gesser-Edelsburg et al. (2020) suggested that participants aged 65 and over perceived the COVID-19 pandemic as a greater risk than those at younger ages.

In our study, the percentage of those patients who indicated that they were a little worried about the COVID-19 infection was 51.9%. More than half of the patients did not worry too much. Anxiety about getting COVID-19 differs significantly among the gender groups. A positive correlation was found between gender and worry. In Wolf et al’s (2020) study, which is consistent with our study, it was reported that women were more concerned about the transmission of the disease than men.

REFERENCES

• Alsaif, B., Elhassan, N. E. E., Itumalla, R., Ali, K. E., & Alzain, M. A. (2021). Assessing the level of awareness of covid-19 and prevalence of general anxiety disorder among the hail community. Kingdom of Saudi Arabia. International Journal of Environmental Research and Public Health, 18(13), 7035.
• Argüder, E., Kılıç, H., Civak, M., Kacar, D., Kay, G., Yılmaz, A. ... Karalezli, A. (2020). Anxiety and depression levels in hospitalized patients due to Covid-19 infection. Ankara Medical Journal, 20(4), 971–981. http://dx.doi.org/10.5505/amj.2020.80775.
• Aydemir, Ö., Güvenir, T., Küey, L., & Külçür, S. (1997). Hastane anksiyete ve depresyon ölçüyü Türkçe formunun geçerlilik ve güvenilirliği [Reliability and validity of the Turkish version of Hospital Anxiety and Depression Scale]. Türk Psikiyatri Dergisi, 8(4), 280–287.
• Beck, A. T., Epstein, N., Brown, G., & Steer, R. A. (1988). An inventory for measuring clinical anxiety: Psychometric properties. Journal of Consulting and Clinical Psychology, 56(6), 893–897.
• Centers for Disease Control and Prevention. (2021, November 29). How to protect yourself & others. Retrieved from https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html
• European Centre for Disease Prevention and Control. (2020, November 6). Infection prevention and control and preparedness for COVID-19 in healthcare settings. Retrieved from https://www.ecdc.europa.eu/sites/default/files/documents/Infection-prevention-and-control-in-healthcare-settings-COVID-19_5th_update.pdf
• Fagherazzi, G., Goetzinger, C., Rashid, M. A., Aguayo, G. A., & Huiart, L. (2020). Digital health strategies to fight COVID-19 worldwide: Challenges, recommendations, and a call for papers. Journal of Medical Internet Research, 22(6), e19284.
• Gesser-Edelsburg, A., Cohen, R., Hizaji, R., & Abed Elhadi Shahbahi, N. (2020). Analysis of public perception of the Israeli Government’s early emergency instructions regarding COVID-19: Online survey study. Journal of Medical Internet Research, 22(5), e19370.
• Golinelli, D., Boetto, E., Carullo, G., Nuzzolese, A. G., Landini, M. P., & Fantini, M. P. (2020). Adoption of digital technologies in health care during the Covid-19 pandemic: Systematic review of early scientific literature. Journal of Medical Internet Research, 22(11), e22280.
• Hyland, P., Shevlin, M., McBride, O., Murphy, J., Karatzias, T., Bentall, R. P. … Vallières, F. (2020). Anxiety and depression in the Republic of Ireland during the COVID-19 pandemic. *Acta Psychiatrica Scandinavica*, 142(3), 249–256.

• Kickbusch, I., Pelikan, J. M., Apfel, F., & Tsouros, A. D. (Eds.). (2013). *Health literacy: The solid facts*. World Health Organization.

• Koley, T. K., & Dhole, M. (2020). *The COVID-19 pandemic: The deadly coronavirus outbreak*. Taylor & Francis.

• Özdin, S., & Bayrak Özdin, Ş. (2020). Levels and predictors of anxiety, depression and health anxiety during COVID-19 pandemic in Turkish society: The importance of gender. *International Journal of Social Psychiatry*, 66(5), 504-511.

• Ulusoy, M., Şahin, N., & Erkmen, H. (1998). Turkish version of beck anxiety inventory: Psychometric properties. *Journal of Cognitive Psychotherapy: An international Quarterly*, 12(2), 163–72.

• WHO. (2020a, June 1). Maintaining essential health services during the COVID-19 outbreak. Retrieved from https://www.who.int/emergencies/diseases/novel-coronavirus-2019/related-health-issues

• WHO. (2020b, June 1). Coronavirus disease (COVID-19): How is it transmitted? Retrieved from https://www.who.int/emergencies/diseases/novel-coronavirus-2019/question-and-answers-hub/q-a-detail/coronavirus-disease-covid-19-how-is-it-transmitted

• WHO. (2021a, May 13). Coronavirus disease (COVID-19). Retrieved from https://www.who.int/emergencies/diseases/novel-coronavirus-2019/question-and-answers-hub/q-a-detail/coronavirus-disease-covid-19

• WHO. (2021b, October 1) Advice for the public: Coronavirus disease (COVID-19). Retrieved from https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public

• WHO. (2022, April 13). WHO Coronavirus (COVID-19) dashboard. Retrieved from https://covid19.who.int/

• Wolf, M. S., Serper, M., Opsasnick, L., O’Conor, R. M., Curtis, L., Benavente, J. Y. … Bailey, S. C. (2020). Awareness, attitudes, and actions related to COVID-19 among adults with chronic conditions at the onset of the U.S. outbreak: A cross-sectional survey. *Annals of Internal Medicine*, 173(2), 100–109.

• Zigmond, A. S., & Snaith, R. P. (1983). The hospital anxiety and depression scale. *Acta Psychiatrica Scandinavica*, 67(6), 361–370.