A nationwide survey of psychological distress among Chinese people in the COVID-19 epidemic: implications and policy recommendations

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ABSTRACT

The Coronavirus Disease 2019 (COVID-19) epidemic emerged in Wuhan, China, spread nationwide and then onto half a dozen other countries between December 2019 and early 2020. The implementation of unprecedented strict quarantine measures in China has kept a large number of people in isolation and affected many aspects of people’s lives. It has also triggered a wide variety of psychological problems, such as panic disorder, anxiety and depression. This study is the first nationwide large-scale survey of psychological distress in the general population of China during the COVID-19 epidemic.

The COVID-19 epidemic has caused serious threats to people’s physical health and lives. It has also triggered a wide variety of psychological problems, such as panic disorder, anxiety and depression. The main purpose of this study is to measure the prevalence and severity of this psychological distress, gauge the number of people in isolation and affected many aspects of people’s lives.

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gender, age, education, occupation and region. Female respondents showed significantly higher psychological distress than their male counterparts (mean (SD)=24.87 (15.03) vs 21.41 (15.97), p<0.001). It is in accordance with results from previous research which concluded that women are much more vulnerable to stress and more likely to develop post-traumatic stress disorder. People under 18 years had the lowest CPDI scores (mean (SD)=14.83 (13.41)). Individuals between 18 and 30 years of age or above 60 presented the highest CPDI scores (mean (SD)=27.76 (15.69) and 27.49 (24.22), respectively). Two major protective factors may explain the low distress level in juveniles: a relatively low morbidity rate among this age group, and limited exposure to the epidemic due to home quarantine. Higher scores among the young adult group (18–30 years) seem to confirm findings from previous research: young people tend to obtain a large amount of information from social media that can easily trigger stress. Since the highest mortality rate occurred among the elderly during the epidemic, it is not surprising that elderly people are more likely to be psychologically impacted. Similarly, people with higher education tended to have more distress, probably because of high self-awareness of their health. It is noteworthy that migrant workers experienced the highest level of distress (mean (SD)=31.89 (23.51), F=1602.501, p<0.001) among all occupations. The concern about virus exposure in public transportation when returning to work, their worries about delays in work time and subsequent deprivation of their anticipated income may explain the high stress level. The CPDI score of respondents in the middle region of China (including Hubei, the centre of the epidemic) was the highest (mean (SD) 30.94 (19.22), F=929.306, p<0.001), since this region was affected by the epidemic most severely. Meanwhile, psychological distress levels were also influenced by availability of local medical resources, efficiency of the regional public health system, and prevention and control measures taken against the epidemic situation. For example, Shanghai is at high risk of carriers of the COVID-19 virus entering the city because of the large population of migrant workers. The distress level is not spiking. This is probably because of the fact that Shanghai has one of the best public health systems in China.

Three major events during the COVID-19 epidemic may have caused public panic: (1) the official confirmation of human-to-human transmission of COVID-19 on 20 January; (2) the strict quarantine of Wuhan on 22 January and (3) WHO’s announcement of PHEIC on 31 January. This study began on 31 January. Results also indicated that as time passes, distress levels among the public have been significantly descending, with the lowest distress level during the Lantern Festival (8 February). This decrease can partly be attributed to the effective prevention and control measures taken by the Chinese Government, including the nationwide quarantine, medical support and resources from all over the country, effective measures (such as public education, strengthening individual protection, medical isolation, controlling of population mobility, reducing gatherings) to stop the spread of the virus.

Findings of this study suggest the following recommendations for future interventions: (1) more attention needs to be paid to vulnerable groups such as the young, the elderly, women and migrant workers; (2) accessibility to medical resources and the public health service system should be further strengthened and improved, particularly after reviewing the initial coping and management of the COVID-19 epidemic; (3) nationwide strategic planning and coordination for psychological first aid during major disasters, potentially delivered through telemedicine, should be established and (4) a comprehensive crisis prevention and intervention system including epidemiological monitoring, screening, referral and targeted intervention should be built to reduce psychological distress and prevent further mental health problems.

REFERENCES
Dr Jianyin Qiu obtained a bachelor’s degree of psychology from East China Normal University in 1990, a Master’s degree of Medicine from Shanghai Second Medical University in China in 1999, and a Doctorate in Medicine from Jiao Tong University School of Medicine in 2007. She is now working as a Director of the Department of Psychological Counseling & Psychotherapy and the Department of Psychotherapy Research at the Shanghai Mental Health Center, and the Deputy Director of the Department of Medical Psychology, Division of Mental Health at the Shanghai Jiao Tong University School of Medicine. In addition, JQ is also the deputy director of the Psychosomatic Medicine & Clinical Psychology Committee, Chinese Women’s Medical Association, director of the Shanghai Mental Health Association, vice-director of the Psychoanalytic Committee and Psychological Counseling & Psychotherapy Committee of the Chinese Mental Health Association, and vice director of the Women’s Mental Health Group in the Chinese Society of Psychiatry. JQ specializes in women’s mental health, in particular post-partum depression. She has conducted epidemiological studies and psychological interventions for women with postnatal depression, menopausal depression, depressive women with breast cancer, teenagers and young adult women with mood disorders. For nearly 20 years, she has been committed to the clinical practice, teaching and research of psychotherapy. The department she is in charge of is the largest center for psychotherapy teaching and practice in China.
Correction: A nationwide survey of psychological distress among Chinese people in the COVID-19 epidemic: implications and policy recommendations


In the acknowledgments section, Fei Wu was originally listed as being affiliated with UCLA. The authors would like to make readers aware that Fei Wu is now affiliated with the Chief Executive Office from Los Angeles County.