



Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

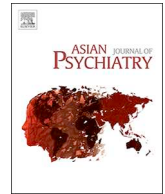
Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.



ELSEVIER

Contents lists available at ScienceDirect

Asian Journal of Psychiatry

journal homepage: www.elsevier.com/locate/ajp

Letter to the Editor

Grief of COVID-19 is a mental contagion, first family suicide in Iran



The number of infected cases to Coronavirus 2019 (COVID-19) is rapidly increasing, and as of 11 March 2020, the world health organization (WHO) has raised the risk of infection to COVID-19 to "very high" and later announced the pandemic of COVID-19 (Pirnia et al., 2020a). COVID-19 has infected about 300,000 cases and 16,500 deaths in Iran so far (30 July 2020). Tehran is the epicenter of COVID-19 and has the most number of deaths in Iran.

It is expected that some problems such as psychological symptoms of stress and reduced autonomy and concerns about income, job, security, and so on have been developed during pandemic of COVID-19 (Pirnia et al., 2020b). The long-term effects of isolation and that the fear and panic in the community can lead to more harm than COVID-19. It is necessary to recognize the psychological and pandemic effects of COVID-19 along with physical symptoms for all patients (Shigemura et al., 2020; Tandon, 2020a). One of the unfortunate consequences of the pandemic of COVID-19 is suicide (Kawohl and Nordt, 2020; Tandon, 2020b). Suicide is one of the leading causes of death around the world (Pirnia et al., 2019). A suicide death, while an individual act, creates a "ripple effect" which profoundly impacts the family (Spillane et al., 2019). Suicide is akin to a stone being thrown into a pool of water—ripples spread outwards to the edge of the water. People close to the suicidal person, including family members or people who discover the body, are most vulnerable (Pirnia et al., 2020c). This study was conducted to report a family suicide during the COVID-19 outbreak.

In Iran, the first suicide case was reported by a teenage boy on 7 April 2020 in Tehran. He was the son of a father who died three weeks ago (March 18) due to COVID-19. According to his relatives, the lack of mourning rites for his father and the unhappiness of those around him were the cause of the symptoms of depression and suicide for this boy. He complained that no one could see them because of the situation. Two days after the boy's death, his mother who was 53-year-old and could no longer bear her son's death, committed suicide by taking two rice pills, and the family's bitter tragedy ended with the mother's death.

Pandemic of COVID-19 disrupted usual experiences of grief, so modifications of approaches to support grief are needed (Wallace et al., 2020). Traditionally, the initial mourning is a normal mourning that occurs for the death of the patient / family. When the deaths are unexpected (such as those seen in pandemic of COVID-19), the traditional grief rituals (e.g., saying goodbye, viewing and burial), and physical social support is lacking. In this situation, there is a possibility of prolonged grief disorder (PGD) (Eisma et al., 2020). For patients and their families, they may experience vague feelings about not being aware of the progression of the disease or how the hospital's policies may change in the face of their patient. These experiences before the death of loved ones have a lasting effect on the experience of mourning (Otani et al., 2017). For loved ones, funerals and burials are postponed or performed without the presence of loved ones, which is a new experience of grief (Wallace et al., 2020).

The survivors' perception of death, with their dear dignity, plays an important role in their ability to cope with grief and loss (Wang et al., 2020). Funeral services can be helpful in grief expressions, and post-burial mourning should be assessed by a team of experts by telephone / video. A special memorial day can be arranged for families virtually or by the compliance to social distancing rules. As Dame Cecily Saunders said, "how people die remains in the memory of those who live on".

How to use advanced care programs, the quality of the communication, and the provision of self-care can reduce the aspects of mourning associated with pandemics and play an essential role in palliative care. The humanistic aspect of providing support for grief support and mourning should be considered even in the pandemic of a disease.

Funding/support

This study was financially supported by Beheshti University of Medical Science.

Declaration of Competing Interest

The authors declared that there is no competing interest in this study.

Acknowledgements

This article was inspired by death of my father, Dr. Kambiz Pirnia (internal medicine specialist), He died of heart attack during shift (In Bijan Center for Substance Abuse Treatment) at the height of the COVID-19 pandemic. I with my brother buried him without any ceremony, and I felt the concept of unexpressed grief in my heart. Our thoughts and prayers are with you.

References

- Eisma, M.C., Boelen, P.A., Lenferink, L.I.M., 2020. Prolonged grief disorder following the Coronavirus (COVID-19) pandemic. *Psychiatry Res.* 288, 113031.
- Kawohl, W., Nordt, C., 2020. COVID-19, unemployment, and suicide. *Lancet Psychiatry* 7 (5), 389–390.
- Otani, H., Yoshida, S., Morita, T., Aoyama, M., Kizawa, Y., Shima, Y., Miyashita, M., 2017. Meaningful communication before death, but not present at the time of death itself, is associated with better outcomes on measures of depression and complicated grief among bereaved family members of Cancer patients. *J. Pain Symptom Manage.* 54 (3), 273–279.
- Pirnia, B., Mohammadi, A.R., Zahiruddin, A., Mohammadzadeh Bazargan, N., Malekanmehr, P., Pirnia, K., 2019. Evaluation of the effectiveness of auricular acupuncture in suicidal ideation and cortisol level in dysthymic patients with comorbid opiate use disorders enrolled in methadone maintenance treatment: a randomized, double-blind, sham-controlled trial. *Iran. J. Psychiatry Behav. Sci.* 13 (2), e12498.
- Pirnia, B., Pirnia, K., Malekanmehr, P., Zahiruddin, A., 2020a. Challenges of Differential Diagnosis, Symptoms of Coronavirus Disease 2019 (COVID-19) or Cannabinoid Hyperemesis Syndrome (CHS)? A Rare Case Report. *Iran. J. Public Health* 49,

<https://doi.org/10.1016/j.ajp.2020.102340>

Received 23 June 2020

Available online 03 August 2020

1876-2018/ © 2020 Elsevier B.V. All rights reserved.

- 109–111.
- Pirnia, B., Dezhakam, H., Pirnia, K., Malekanmehr, P., Soleimani, A.A., Zahiroddin, A., Sadeghi, P., 2020b. COVID-19 pandemic and addiction: current problems in Iran. *Asian J. Psychiatr.* 54, 102313.
- Pirnia, B., Khosravani, V., Maleki, F., Kalbasi, R., Pirnia, K., Malekanmehr, P., Zahiroddin, A., 2020c. The role of childhood maltreatment in cortisol in the hypothalamic–pituitary–adrenal (HPA) axis in methamphetamine-dependent individuals with and without depression comorbidity and suicide attempts. *J. Affect. Disord.* 263, 274–281.
- Shigemura, J., Ursano, R.J., Morganstein, J.C., Kurosawa, M., Benedek, D.M., 2020. Public responses to the novel 2019 coronavirus (2019-nCoV) in Japan: mental health consequences and target populations. *Psychiatry Clin. Neurosci.* 74 (4), 281–282.
- Spillane, A., Matvienko-Sikar, K., Larkin, C., Corcoran, P., Arensman, E., 2019. How suicide-bereaved family members experience the inquest process: a qualitative study using thematic analysis. *Int. J. Qual. Stud. Health Wellbeing* 14 (1), 1563430.
- Tandon, R., 2020a. COVID-19 and mental health: preserving humanity, maintaining sanity, and promoting health. *Asian J. Psychiatr.* 20, 102256.
- Tandon, R., 2020b. The COVID-19 pandemic, personal reflections on editorial responsibility. *Asian J. Psychiatr.* 50, 102100.
- Wallace, C.L., Wladkowski, S.P., Gibson, A., White, P., 2020. Grief during the COVID-19 pandemic: considerations for palliative care providers. *J. Pain Symptom Manage.* 60 (1), e70–e76.
- Wang, S.S.Y., Teo, W.Z.Y., Yee, C.W., Chai, Y.W., 2020. Pursuing a good death in the time of COVID-19. *J. Palliat. Med.* 23 (6), 754–755.

Bijan Pirnia^{a,b,*}

^a *Department of Psychology, Faculty of Humanities, University of Science and Culture, Tehran, Iran*

^b *Behavioral Sciences Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

E-mail address: b.pirnia@usc.ac.ir.

Hossein Dezhakam

Founder of the Human Revivification Society of Congress 60, Islamic Republic of Iran, Tehran, Iran

Kambiz Pirnia

Technical Assistant in Bijan Center for Substance Abuse Treatment, Tehran, Iran

Parastoo Malekanmehr

Department of Psychology, Branch of Tonekabon, Islamic Azad University, Mazandaran, Iran

Manya Rezaeian

Department of Psychology, Faculty of Psychology and Educational Sciences, Kharazmi University, Tehran, Iran

* Corresponding author at: Department of Psychology, Faculty of Humanities, University of Science and Culture, Tehran, Iran.