Pandemic effect on the elderly and their caregivers

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Abstract

COVID-19 pandemic forced governments to enact mobility restrictions to contain the spread of infection. Elderly, especially those with co-morbidities, are highly susceptible to infections. Hence, reverse quarantine measures have been enacted to protect the elderly. The barriers in social connectedness have an impact on the mental and physical well-being of the elderly. Stress, anxiety, anger, confusion, depression, and suicidal tendencies are reported among the elderly kept in social isolation. Apart from the elderly, their family caregivers also go through similar physical and psycho-social stress. Many times, the caregivers are also having additional responsibilities of childcare and homeschooling during the pandemic time. The authors outline the various intricate issues and dimensions of the pandemic's effect on the elderly and their caregivers. Various feasible strategies to address these multidimensional problems faced by the elderly and their caregivers during the pandemic time, like mobile-based mindfulness meditation training, spiritual support, telephone-based psychotherapy, telehealth services, physical exercise promotion, and social support measures, are recommended.

Keywords: Caregiver, Coping, COVID-19, Elderly, Pandemic, Prevention, Stress, India

Background

In the time of COVID-19, where coronavirus disease has spread Social connections put into an important role in maintaining well-being of the elderly [1]. Elderly and people with multiple systemic disorders like hypertension, heart disease, diabetes, asthma, etc., are at high risk of incurring COVID-19 [2]. Mobility constraints, which had been enacted as precautionary measures against the outbreak of the COVID-19 pandemic, had created barriers for social connectivity among the elderly. The social isolation thus created had been found to exponentially hiked anxiety levels and resultant behavioral problems among the elderly [1]. People kept in social isolation and quarantine experience loneliness, post-traumatic stress symptoms, confusion, anger, depression, and suicidal tendencies [3-6]. Fear of being a burden to the family added up with social isolation was the factor that led to suicide among older women in Hong Kong during the SARS pandemic [7].

Age-related changes like the decline in the rate of clearance of particles, reduced resistance in the nasal area, decrease in the number of ciliated cells and size of the upper respiratory tract, and malnutrition occur in the elderly. Supplemented to it, age-related dysfunction of innate and adaptive immune system predisposes elderly to COVID-19 like viral infections [8]. Furthermore, all these restrictions have a deleterious effect on the physical activity level of the elderly, making the situation more worsened. It has been reported that the elderly drastically loses muscle strength, aerobic capacity, and flexibility due to limitations, inactivity, and increase risk of fall [9-11].

The caregivers of the elderly are playing a significant role, but many times they are taken for granted. In developing countries like India, family members are the primary caregivers. Many a time, they experience the feeling of being entrapped in a situation due to their obligatory liabilities [12]. The caregivers often bear stress and frustration of the elderly expressed as anger and other emotional outbursts. An equal proportion of stress is likely to be experienced by them. Lack of definite treatment, the rapid spread of infection, uncertainty regarding the modes of transmission, length of quarantine, financial constraints, changes in personal care, and social routines were detected to be some of the critical factors predisposing caregivers to stress [13,14]. Fake news, rumors, and myths related to COVID-19 having been rapidly spread through social media cause confusion and treatment dilemmas among the caregivers and are likely to affect their mental health [15]. Stress is found to increase steroids’ production in the body, impairing the immune system and making people susceptible to infections [16]. There are alterations in cytokines, white blood cells, and peripheral C Reactive protein in persons with depression or anxiety [17-19]. Unfortunately, caregivers often fail to recognize these stress-related physical effects and develop long-lasting physical and mental illnesses [12].
In the elderly with COVID-19 infection, medical co-morbidities like diabetes and hypertension increase the risk of mortality [1]. Certain veterans with malignant cancer, heart failure, stroke, require advanced and complex caregiving procedures. In such situations, COVID 19 infection superadds caregiver burden [20]. Some family members are having additional responsibilities of childcare and homeschooling apart from caring elderly [20]. Social interaction limitations cause children to become restless, annoyed, and agitated, resulting in enhancing psychological burden to the parents [21]. During the initial phase of the pandemic in China, a survey reported that 75% of the people were worried about the family members getting COVID-19 [22]. Some of the caregivers of the elderly are up to the age of their care recipients, with various neurological and musculoskeletal conditions making the situation complex. The number of aged parents staying alone is a common phenomenon due to the change in family structure.

Home care of COVID-19 is considered when the symptoms are mild, and hospital stay is unsafe, especially for the elderly [23]. Caregivers of the elderly are reluctant to seek external help due to social isolation restrictions, and fear of infection transmission through visitors, increasing their mental stress and physical exhaustion [20]. Increased caregiver stress and burnouts are already recognized as an important public health issue [20]. Depression and suicidal thoughts are also experienced by caregivers [24]. The relatives of a terminally ill patient with COVID-19 are found to be anxious, afraid, and alone. Most of the caregivers have not undergone any caregiver specific training. Hence, providing adequate telephone-based clinical caregiving guidance, emotional and psychological supports are of great relevance [25].

Unemployment and income reduction are experienced by caregivers during the COVID-19, causing an economic crisis [20]. Besides, many of the employees are reluctant to disclose their additional responsibility as a caregiver, owing to the fear of losing a job [26]. The stigma associated with the pandemic causes people to avoid seeking medical care even if they have symptoms [27]. Medical professionals, nurses, and caregivers form the main pillars of the healthcare delivery system. Hence measures to mitigate the stress and effective coping strategies for both the elderly and their caregivers are of paramount importance for their physical and emotional well-being and enhancing their quality of life.

**Recommendations**

Mental tension, stress, and associated factors had been found to influence the elderly and their caregivers to a great extent. Inducing peace of mind can mitigate a wide range of issues faced by these vulnerable populations. Meditation helps address loneliness among the elderly [28]. Mobile-based mindfulness meditation training was found effective in addressing loneliness and stress in the elderly [29]. Caregivers can be trained to promote their care recipients in performing self-meditation. The elderly will be more into spiritual commitments, find more mental comfort from spiritual elements like services, prayers, religious speeches, hearing recitation of holy scriptures, etc. Spiritual support is of great help to patients and relatives during the end stage of life and acts as “spiritual first aid” [25].

Psychotherapy offers a realistic view of one’s mental situation and methods to tackle the crisis with clinician-guided training. In situations like COVID-19, telephone-based psychotherapy has proved to provide high satisfaction and retention rate [30].

Telehealth is an effective solution to access health care services. However, digital literacy and broadband access, especially among the elderly and those residing in rural areas, are the main barriers [20]. Otherwise, it was an ideal option during reverse quarantine of the elderly in pandemic time. However, making caregivers empowered by providing necessary skill training and guidance facilitates better healthcare services utilization. On the other hand, a continuous telecommunication link could also be established with a nurse or doctor to monitor and provide feedback [23].

Teaching coping strategies to the caregivers can alleviate major issues of the elderly. Active coping, distraction, and seeking emotional and social support were the most effective coping strategies [14]. Patients and family members should be provided educational support regarding basic precautionary and hygiene measures to prevent the spread of infection and for symptom management [23].

Cognitive deterioration is one of the physiological changes occurring with senescence. The elderly with cognitive issues should be provided special care as they are likely to get more stressed, agitated, or withdrawn [31]. Caregivers should be made aware of the same, and they must be prepared for facing cognition related issues from their side. Caregivers should minimize sharing spaces and maintain adequate ventilation in shared spaces.

When an elderly is suspected or confirmed having COVID-19 infection, avoid caregiving responsibility to immune-compromised persons or persons with chronic conditions [23]. Proper disposal methods of infected waste materials of home quarantined elderly should be diligently followed and taught to the caregivers, devoid of which they would be exposing themselves and the significant others to a deadly virulent virus. Physical exercise bouts of 10-minute duration, done three times daily, will help the elderly achieve the recommended level of physical activity and counter age-associated immune deficiency [32,33]. Allowing caregivers of the elderly to be in employment increase their financial security, satisfaction, and social integration [34]. Provide simple and clear information to the elderly and their caregivers about COVID-19 infection and preventive measures. Maintain adequate stock of regular medicines being taken for systemic diseases by the elderly. A social network needs to be created to supply medicine and essential goods to the elderly and caregivers. Providing incentives to caregivers of the elderly will be an ideal strategy as it helps relieve the financial burden, acts as a motivator, and a sign of recognition of their services.

**Abbreviation**

COVID-19: Coronavirus Disease-19; MIMS: Malabar Institute of Medical Sciences

**Delection**

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