ARTICLE

COVID-19 and panic disorder: clinical considerations for the most physical of mental disorders

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Shortness of breath, choking or smothering sensations, chest pain or discomfort, and fear of dying. Due to the coronavirus disease 2019 (COVID-19) pandemic, our minds have been conditioned to associate these symptoms with a rather severe form of the disease. Although such symptoms could indicate a case of COVID-19, they are also common in panic attacks (PAs) (i.e., the hallmark of panic disorder [PD]), in which respiratory symptoms occur along with other panic symptoms that are mainly physical in nature.^{1,2}

Experimental evidence has supported the hypothesis, unique in the realm of mental disorders, that subclinical alterations of basic physical functioning, mainly the respiratory system, may be involved in the pathogenesis of PAs. Patients with PD were thought to have a hyperactive suffocation alarm, which results in a specific behavioral and respiratory hypersensitivity to hypercapnia. Different laboratory challenges that induce hypercapnia (e.g., the Read's rebreathing technique, the prolonged inhalation of 5% or 7% of CO₂-enriched air, and the double inhalation of a 35% CO₂ and 65% O₂ gas mixture) resulted in higher rates of PAs and respiratory-response abnormalities in PD patients than controls. Moreover, these patients are hypersensitive to various other laboratory respiratory challenges, such as breath-holding, hyperventilation, and a hypoxic challenge test.^{1,2} They suffer from irregular breathing patterns, impaired diaphragmatic breathing with reduced vital capacity, chronic hyperventilation, and a common sensation of difficulty in breathing during activities of daily living.³ Finally, PD has remarkable associations with asthma or chronic obstructive pulmonary disease. PD patients also have imbalanced autonomic regulation, reduced heart rate variability, poorer cardiovascular fitness, and higher variability of electrocardiographic QT interval and cardiac repolarization.²

Although the source of these features is still unclear, patients with PD experience, from a clinical point of view, a significant burden of respiratory and physical symptoms or discomfort during PAs, as well as in certain environmental situations. Furthermore, the fear of suffocation is one of their primary troubles. Overall, they seem to exhibit greater physical and emotional difficulties in coping with somatic sensations and internal bodily changes than individuals suffering from other anxiety disorders.⁴

Given these peculiar features, PD patients are likely to have distinct difficulty in dealing with a disease like COVID-19, since it may be severe and life-threatening and, most importantly, it may cause various respiratory symptoms, which could lead to respiratory failure. Hence, when PD patients develop COVID-19, a complex clinical picture might emerge that deserves consideration from clinicians involved in managing COVID-19 patients.

First, clinicians should bear in mind that PD patients are particularly hypersensitive, from a biological and psychological point of view, to respiratory stimuli and physical symptoms or sensations. Thus, PD patients with COVID-19 may actually perceive more intense respiratory and physical discomfort than other patients, even with mild infection. In more severe cases of COVID-19, it may be especially difficult for PD patients to contend with hypoxia or tolerate various methods of ventilation. Hence, great attention and support should be paid to the respiratory and physical complaints of COVID-19 patients with personal histories of PAs or PD. Furthermore, in COVID-19 patients whose respiratory symptoms are more intense than their physical condition would seem to warrant, clinicians should check for a history of PAs/PD.

Second, some of the most commonly used antipanic medications, particularly paroxetine and clomipramine, have positive effects on respiration and dyspnea. Their abrupt interruption may increase respiratory discomfort and panic symptoms,² which could worsen the condition of patients with respiratory diseases.⁵ Thus, they should not be discontinued in PD patients with COVID-19. Moreover, if a patient's antipanic medication is incompatible with his or her general medical condition, alternative antipanic medications might be considered.

Finally, since PD patients are more likely to experience greater anxiety and fear in response to COVID-19-related respiratory or physical symptoms than other patients, the clinical support of psychiatrists or cognitive behavior therapists might be particularly helpful during this stressful experience.

Of course, patients with other psychiatric disorders may also be at high risk of COVID-19-related distress, and our considerations were not meant to underestimate the expertise of clinicians involved in the COVID-19 pandemic. Our aim was to highlight that the fact that psychiatric aspects deserve attention even during a challenging medical crisis, such as the COVID-19 pandemic, and that PD patients may be particularly challenged by this infection due to the peculiarity of panic pathophysiology.

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Letters to the Editor

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Disclosure

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