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The impact of COVID-19 on individuals living with serious mental illness

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1. Introduction

On March 11th, 2020, the World Health Organization (WHO) characterized COVID-19, caused by the novel coronavirus SARS-CoV-2, a global pandemic. As the number of COVID-19 cases increase exponentially in the U.S., there has been much effort on minimizing the spread of the disease via the implementation of social distancing practices, which can be stressful for everyone including individuals with serious mental illness (SMI) such as schizophrenia, bipolar disorder and major depression.

2. Challenges & exacerbation of symptoms

The COVID-19 pandemic can be a catalyst for the new onset of psychosis (Brown et al., 2020) or exacerbation of symptoms in individuals with SMI. The current strategy of social distancing may lead to poor psychiatric outcomes such as social isolation and loneliness, which are common experiences in individuals with SMI (Linz and Sturm, 2013). Loneliness has long been associated with lower quality of life, depression, paranoid thinking, and suicide ideation (Michalska da Rocha et al., 2018). Moderate associations between psychotic symptoms and loneliness have also been identified (Michalska da Rocha et al., 2018). Social distancing can make individuals with SMI experience significant emotional distress, and relapse of psychotic symptoms, resulting in increased risk of rehospitalization in this population.

Obsessive-Compulsive Disorder (OCD) and Obsessive-Compulsive Symptoms (OCS), are highly comorbid in the SMI population, especially in those living with schizophrenia and bipolar disorder with the rates ranging from 10% to 52% (Bottas et al., 2005; Sharma and Reddy, 2019). The fear of contracting SARS-CoV-2 may contribute to an increase in obsessive thoughts, which can lead to more debilitating functional impairment in daily life often associated with SMI. In a study on the relationship between OCS, anxiety, and swine flu fears, researchers evaluated the impact of pandemics on anxiety and the fear of contamination; the findings suggest that individuals exposed to information regarding the Swine Flu outbreak experienced substantially higher rates of anxiety, and those who had pre-existing psychiatric symptoms experienced an exacerbation of symptoms (Brand et al., 2013). The COVID-19 pandemic may have similar impact on individuals with SMI.

The "infodemic", an overwhelming amount of information regarding COVID-19, can exacerbate delusions, hallucinations, and disorganized thinking commonly experienced by individuals with SMI. Studies have demonstrated that as the society becomes more centered around technology, reports of paranoid delusions increase (Mason et al., 2014). For example, a patient meeting with their psychiatrist virtually may believe that the coronavirus is being transmitted through the phone or computer screen. Extended periods of social isolation may also exacerbate hallucinations experienced by individuals with SMI (El Haj et al., 2016). Furthermore, disorganized thinking in individuals with SMI can put them at high risk of contracting or transmitting COVID-19 as these individuals may not be able to fully understand the gravity of the pandemic situation, social distancing practice, and other measures in place to reduce the spread of COVID-19. Individuals with disorganized thinking are also at high risk of experiencing fears of contamination or stress-induced anxiety, and likely misinterpret the physiological response of anxiety to respiratory symptoms that might be associated with COVID-19 (Gelenberg, 2000).

Co-occurring substance use in individuals with SMI is common (Hartz et al., 2014; Sheidow et al., 2012). According to the National Survey on Drug Use conducted by the Substance Abuse and Mental Health Services Administration, 49.4% of adults with SMI used illicit drugs compared to 15.7% of the general population (SAMHSA, 2019). To cope with the stress and the exacerbation of psychiatric
symptoms during the COVID-19 pandemic, individuals with SMI may self-medicate by engaging substance use, which put them at a high risk of hospitalization and suicide (Cohen et al., 1990; Pettersen et al., 2013).

3. What healthcare providers should consider while treating patients “from a distance”

As the healthcare system converts to virtual platforms during the pandemic, healthcare providers should help their patients embrace and get used to telehealth or mobile health technology (Torous and Keshavan, 2020). Maintaining regular contact with patients can be vital in providing a sense of social connection and preventing symptom relapse and possible hospitalization. It is also important to address some practical and logistic challenges to ensure continued care, for example, collaboration with pharmacies and labs for those patients on clozapine and requiring regular monitoring of absolute neutrophil count (Leung et al., 2020), making arrangement for those patients on long-acting injectable antipsychotic medications to receive such treatment (Gannon et al., 2020), making sure that patients have enough medications in case they need to self-isolate or avoid leaving home. Mental health providers are now tasked with a challenge in decision making and weighing the risks and benefits of different intervention options. Lessening acute contacts, permitting individuals with SMI to stay home should be considered as appropriate and possible (Geller and Daou, 2020).

4. Community support and intervention for individuals with SMI

Important community-based resources utilized by individuals with SMI for psychosocial support, such as community health centers, day programs, and clubhouses, are closed during the COVID-19 pandemic. Now more than ever, we should develop novel care delivery methods to support individuals with SMI. Many community clubhouses and community health centers are notifying their members that they are available virtually for support at this time. Instead of face-to-face support and in-person activities, these community resources have shifted to operating virtual models. This transition has included: preparation of weekly care packages of food to members in need, helping members who have been recently unemployed find jobs, connecting members with their healthcare providers to continue treatment and psychotherapy, and hosting virtual social groups so members feel less isolated. Staff of community support centers have also made efforts by doing outreach calls to members, checking on members’ well-being. Community support collaborations have also led to providing internet and phone access for members who tend to be more socially isolated in an effort to help them adjust and feel included from a distance. In addition, financial support has been provided for members recently unemployed to pay rent as homelessness in this population is common (Sylvestre et al., 2018). Community intervention in times of crisis plays a key role in providing a sense of hope, encouragement, and resilience in such a vulnerable and often overlooked population.

Some important online resources to support individuals with SMI have been established since the COVID-19 outbreak. For example, in an effort to combat the increase in substance use expected during the pandemic, SAMHSA has recommended virtual recovery resources such as online recovery programs, peer support, prevention hotlines, and tips on how local recovery centers can offer online programs (SAMHSA, 2020). The COVID-19 information and resource guide, released by the National Alliance on Mental Illness, provides support to and addresses challenges faced by individuals with mental illness and their families (NAMI, 2020).

Individuals with SMI are one of the most vulnerable and least privileged groups of people in our society. It is critically important that healthcare professionals coordinate care with the family and community resources to provide the best possible support for this patient population during the COVID-19 pandemic.

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Declaration of competing interest

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