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The Behavioral Health Needs of Youth with Pre-existing Psychiatric Disorders in the Aftermath of COVID-19

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Key words: Behavioral health, COVID-19, service access, child and adolescent psychiatry

Introduction

On December 7th, 2021, the United States Surgeon General issued an advisory in which a national youth mental health crisis was highlighted as being exacerbated by the COVID-19 pandemic (U.S. Department of Health and Human Services, 2021). The advisory emphasized the presence of a pre-existing and alarming youth mental health crisis. Children and adolescents with pre-existing psychiatric disorders are a sizable population of children and youth with special health care needs (CYSHCN), and our mental health service system was already strained to support these youth. There is a shortage of psychiatrists and mental health workers at this time, which has grossly affected youths' ability to access care (Weiner, 2022). The current attrition

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rate of behavioral health care providers is between 30 and 35 percent per year, which has implications on patients receiving access to consistent and appropriate measures of care (Johnson-Kwochka et al., 2020). The impact of the COVID-19 pandemic highlights our shortcomings in supporting CYSHCN and allows for delineations of room for improvements.

Young people are contending with adverse childhood experiences, racial reckoning, political turmoil, and environmental concerns across the country. These forces represent chronic stressors and disruptive life events that have impacted youth behavioral health and their in-person schooling, healthcare services, and access to resources. Families are under stress and may not have comparable resilience to support their children as prior to the pandemic: For all individuals, depressive and anxiety symptoms rose by 50% during the pandemic (Aknin et al., 2022)

Symptoms rose specifically among youth as well. In one study, children with attention-deficit/hyperactivity disorder (ADHD) were found during the pandemic to have increased symptoms of negative emotions or behaviors such as irritability and impulsivity (Shah et al., 2021). Specific trends in non-suicidal self-injury and substance use disorders are known for pediatric populations on a month-by-month timeline specific to geographical regions in the United States Fair health report (FAIR Health, 2021). In 2021, emergency visits for suicide attempts were 51% higher for adolescent girls and 4% higher for adolescent boys compared to 2019 (Yard et al., 2021). These pandemic shifts occur amidst trends over the last decade in which mental health problems have risen: Sadness or hopelessness rose by 40%, suicidal ideation rose by 36%, and the creation of suicide plans rose by 44% amongst high schoolers in the United States between 2009 and 2019 (Centers for Disease Control and Prevention, 2020).

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CYSHCN require access to resources at different levels of various ecological systems. Pre-existing structural and systemic healthcare inequities have made it difficult for CYSHCN youth to receive the required physical, emotional, and social supports necessary for their development. The pandemic further exacerbated those healthcare disparities. In the 2021 Children's Mental Health Report (Osgood et al., 2021), Cynthia Martin mentioned that of the children she sees who have neurodevelopmental disorders with other present comorbidities, those from lower socioeconomic backgrounds faced the greatest amount of disruption in their access to mental health providers, educators, and advocates.

COVID-19 has also had a disproportionately high impact on children, youth and families of color, and particularly those from disadvantaged communities; higher rates of loss, infection, and hospitalizations and of exposure to adverse childhood experiences (Smitherman et al., 2021) have impacted these youth. These factors are responsible for health disparities (Shim, 2020).

In what follows, we detail our observations as child and adolescent clinicians who work with the underserved in New York City and make proposals for the coming months and years to help correct these disparities.

Raise reimbursement

Despite progress through the Mental Health Parity and Addiction Equity Act of 2008 (Centers for Medicare and Medicaid Services, 2008) to eliminate disparities between mental health and medical or surgical services, mental health service reimbursement by both public and private insurers remains lacking.

In New York City, only 64% of the cost of inpatient behavioral health services are reimbursed by Medicaid (Greater New York Hospital Association, 2021). Low reimbursement rates for inpatient child and adolescent behavioral health services leads to difficulty retaining

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qualified staff and maintaining available inpatient behavioral health beds, leading to long wait times in emergency departments nationwide (Bebinger, 2021). As private insurances may reimburse more, hospitals may be incentivized to fill beds with children and adolescents with commercial insurance, leaving children with lower-reimbursing public sector insurances with long waits in emergency department settings. In a study of emergency department overcrowding from the Southwestern United States, patients with Medicaid and Hispanics waited the longest for bed availability, whereas Whites waited the least (de Araujo et al., 2013). It should be noted that though this study was not specific to youth behavioral health and its findings may be interpreted in many ways, it demonstrates that inequalities linked with negative health outcomes do exist based on ethnicity and on insurance status. Whereas governmental agencies are limited in how they can affect reimbursement by third party private insurance carriers, it is within governmental control to close this gap through adjustment of Medicaid reimbursement rates and potentially close a significant disparity.

Reimbursement differentials in the outpatient setting are also marked. In some areas of the country, especially major metropolitan areas, few private practitioners accept any insurance plans, leading to a two-tiered system where those who can pay out-of-pocket gain access to more experienced providers relative to providers in hospital-based or community clinic settings, where providers may be trainees or early career clinicians. These differentials can exacerbate economic, racial and ethnic disparities in access to quality care among poor youth of color that predate the current crisis (Alegria et al., 2015), and these factors may make CYSHCN particularly vulnerable. Access to subspecialty care is strained for CYSHCN as a whole (Keller et al., 2020), inclusive of psychiatric care. In a study of Ohio wait times for families seeking psychiatric care for their adolescents, the median wait time was fifty days, and those with

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Medicaid waited longer than those with private insurance at a level of statistical significance (Steinman et al., 2015).

Reimbursement rates also impact staff turnover, which existed in behavioral health prior to COVID-19 but has worsened during the pandemic (Barna, 2022). The times have been called "The Great Resignation" (Sheather & Slattery, 2021). Staff turnover may be rapid, making the formation of an attachment as a medium for therapeutic growth difficult. This may be particularly difficult for children and adolescents with histories of abandonment or neglect.

We propose that state and federal agencies raise rates of reimbursement for both inpatient and outpatient Medicaid services, including through negotiations in contracts for Medicaid plans managed through commercial insurers. In New York, the Subway safety plan (New York City Office of the Mayor, 2022) was a positive step in raising Medicaid rates for inpatient psychiatric hospitalizations by 20%. Whereas governmental agencies have little direct control over third party outpatient reimbursement rates, these rates may raise with an increase of rates for Medicaid reimbursement. Both public and private sectors should ideally better match out-of-pocket market rates. This may lead not only to retention of experienced staff available to serve low-income CYSHCN in hospital and community clinic settings, but also to increase the quality education and training of rising mental health clinicians available for CYSHCN. A systematic review of factors related to emergency physician retention found salary, which will be influenced by increased reimbursement, to be important (Darbyshire et al., 2021). Incentivizing clinical work in poverty impacted communities via educational loan remission programs may also provide a means to increase provider availability and increase healthcare access for underserved CYSHCN. Support-for-service programs demonstrably bring physicians to underserved areas and result in satisfied physicians (Pathman et al., 2004).

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Increase telehealth care delivery

The COVID-19 pandemic demonstrated the benefits of remote provision of psychotherapy and psychiatric medication management. Patients who were sheltering-in-place or did not wish to risk exposure remained able to receive care. There is a significant evidence base of the benefits of telehealth in behavioral health, with one recent scoping review finding psychiatry as a field to have the third largest number of supporting publications (Doraiswamy et al., 2020). Whereas other fields such as surgery may only provide components of care remotely, telehealth provides a rich opportunity for outpatient psychiatric care with children and adolescents. Play therapy may be adapted to the virtual medium and is capable of producing rich clinical process (Udwin et al., 2021). Telehealth reduces no-show rates (Greater New York Hospital Association, 2021) and helps disadvantaged CYSHCN by reducing transportation costs and/or eliminating the need of a parent to take time off from work to accompany a child (van Cleave et al., 2022). Ongoing training of providers on telehealth services for children and adolescents should focus on addressing critical issues such as ensuring quality care, fidelity to evidence-based practices, and attention to privacy and safety in the clinical milieu.

While patients are generally satisfied with the option of telehealth, pressures against telehealth include differential reimbursement rates by third party payors for in-person as opposed to telehealth services, access to and knowledge of the required technology, and internet access (Gajarawala & Pelkowski, 2021; Moreno et al., 2020). We recommend a hybrid model of retaining telehealth as an option for clinical care alongside in-person treatment.

Reduce inter-state licensing requirements

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During the COVID-19 pandemic, many states reduced limitations on providing remote services through telehealth. The goal was to facilitate access to care. We believe that these temporary modifications should be made permanent. The Interstate Medical Licensure Compact as well as changes on a federal level may achieve this goal and increase accessibility to the underserved, including CYSCHN (Adashi et al., 2021). Licensing facilitations should be made for all members of the allied mental health disciplines; for example, states which facilitated temporary licenses for telehealth practice during COVID-19 can make these licenses permanent. The benefits of reducing legal barriers to telehealth adoption for elderly population has been described (Sklar & Robertson, 2020), and we believe these avenues will yield benefits to children and adolescents.

Increase community-based care services

The COVID-19 pandemic led to changes in the movement of children and adolescents to available inpatient child and adolescent psychiatry beds. Services appeared to decrease, at least at the start of the pandemic (Dror et al., 2022; Reece & Sams, 2022; Wan Mohd Yunus et al., 2022). More recent data may show an increase in service use. We in New York City have seen an increase in admissions for youth suicide attempts relative to suicidal ideation within the pandemic, suggesting that the safety network which would catch youth prior to an event was not functioning (Shanker et al., 2022). Today, again there is a bottleneck in emergency departments where children waited days and at times even weeks for bed availability (Bebinger, 2021).

We recommend increasing outpatient services at various levels of care, including home-based wrap-around, clinic, intensive outpatient, and partial hospitalization services. These services can expand the safety net that prevents CYSCHN from presenting to the behavioral health system through the inpatient setting via events such as suicide attempts. The cost of

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outpatient services is significantly less than inpatient services, and when they are well-functioning there will be less of a need for more costly acute services, both through reduction of admissions and through increased facility of step-down from inpatient to outpatient settings when services are robust. This fact could drive support among policy makers for fund allocation and appropriate staffing. In New York State, the Office of Mental Health recently enacted a Youth Assertive Community Treatment (ACT) program to provide intensive community-based services to address the mental health needs of children and adolescents with severe emotional disturbance (SED).

Address social determinants of health

Community-based care services may help to provide services for CYSHCN who are most disadvantaged. As many families have been driven below the poverty line by the pandemic with risks of housing, food, and health service shortages (Brundage & Ramos-Callan, 2020), community engagement and support are crucial. Moreover, the loss of access to teachers, coaches, mentor figures, faith-based communities, and others during the pandemic isolated youth. Action must be taken to reengage children and adolescents with their communities. Of the many children who lost a parent or caretaker to COVID-19 – roughly one in 450 youth in the United States (Treglia et al., 2021) – reconnection with the community takes on a pressing urgency. Productive grief and successful mourning may be particularly challenging for CYSHCN suffering a parent's death (Rice, 2022). Addressing our communities' shortcomings to support these youth proceed through these tasks is paramount.

The COVID pandemic amplifies challenges for CYSHCN from low-income families, and those from racial and ethnic minority groups. An increased burden of stressors through trauma, health disparities, social determinants of health such as limited economic opportunities existing

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prior to the pandemic would likely present greater risks for these youth during the pandemic (Cortés-García et al., 2022). Many African Americans who need mental health care don't receive care (McGuire & Miranda, 2008), and further, for black children, suicide is the second leading cause of death for ages 10-14 and the third leading cause of death for ages 15-19 (U.S. Department of Health and Human Services Office of Minority Health, 2021). Communities of color were disproportionately exposed to the virus, and Black and Hispanic children experienced parental/caregiver deaths from COVID-19 at twice the rate of Asian and white Children (Brundage & Ramos-Callan, 2020). Studies have shown that Hispanic adults were more likely to experience depression (Saltzman et al., 2021), and worsening mental health during the pandemic (Swaziek & Wozniak, 2020); however, the expectation of worsened mental health challenges for CYSHCN from minority backgrounds has not been explored, and further study is needed.

Conclusion

These policy proposals may strengthen our mental health service delivery capabilities to meet the needs of CYSCHN with preexisting psychiatric disorders who were affected by the pandemic. Implementing these proposals would be in alignment with addressing systemic injustices and racism through confronting the disparities which unduly affect racial and ethnic minorities and the underserved. While the pandemic brought many tragedies on scales from the individual to the international, mobilizing the revealed disparities to action in the service of improvement can yield one beneficial outcome of the pandemic.

Ethical Statement

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