Although children are not at the highest risk for coronavirus disease 2019 (COVID-19) severe illness, necessary pandemic public health measures will have unintended consequences for the health and well-being of the nation’s at-risk children. School closures, social distancing, reduction in health care services (eg, canceling nonurgent health care visits), and ubiquitous public health messaging are just some of the measures intended to slow the COVID-19 spread. Here, we (1) highlight the health risks of the pandemic response measures to vulnerable pediatric subpopulations and (2) propose risk mitigation strategies that can be enacted by policy makers, health care providers and systems, and communities (Table 1). The selected risks and proposed mitigation strategies are based on existing evidence and opinions of expert stakeholders, including clinicians, academicians, frontline service providers (eg, social workers), and public health leaders.

We focus on risks and mitigation strategies for 3 at-risk subpopulations of children: (1) children with behavioral health needs, (2) children in foster care or at risk for maltreatment, and (3) children with medical complexity (CMC). Mitigation strategies delineated for these at-risk populations are also likely beneficial for any child and family. Importantly, children not already in these groups are at risk for facing new medical, behavioral, or social challenges that develop during the pandemic. In particular, children in households of low socioeconomic status are likely at the highest risk for new or worsening issues, underscoring the critical leadership role of Medicaid programs in these risk mitigation strategies.

CHILDREN WITH BEHAVIORAL HEALTH NEEDS

The ~1 in 6 children with behavioral health conditions whose treatments involve regular and frequent therapist contact are at especially high risk of exacerbations during disasters. In-person behavioral health care access during the pandemic has been reduced in medical, community, and school settings, where proportionally more low-income, minority students accessed care pre-pandemic. Strategies to maintain access include the promotion and reimbursement of telehealth behavioral health visits by the full range of licensed providers, promotion of mental health parity, and use

This article has an accompanying video summary.

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<tr>
<th>TABLE 1 Selected Health Risks for Vulnerable Child Subpopulations From the COVID-19 Pandemic Response Initiatives and Recommended Mitigation Strategies</th>
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<tbody>
<tr>
<td><strong>Children with behavioral health needs</strong></td>
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<tr>
<td>Reduced health care access and school closures: behavioral health treatments involve frequent contact with therapists and regular follow-up. Children now face reduced access in medical, community, and school settings. For example, among adolescents who use mental health services, 58% received these services in an educational setting, with higher rates among low-income, minority students.</td>
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<td>Pandemic public health messaging: the high volume of intense and potentially frightening messaging consumed by children can exacerbate or trigger behavioral health conditions in children.</td>
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<tr>
<td>Social distancing: physical isolation from support systems and peers can exacerbate underlying behavioral health issues, particularly children with developmental disabilities for whom community supports are critical and for children with mood disorders (eg, depression and anxiety).</td>
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<tr>
<td><strong>Children in foster care and/or at risk for maltreatment</strong></td>
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<tr>
<td>School closure: families of all children may be taxed by added parenting demands, which places children at risk. School personnel, a key reporter of maltreatment, will be unavailable. Foster parents may reevaluate their ability to financially and socially support children who are not in school, resulting in placement disruption. Kinship families may be particularly stressed because they are provided fewer resources than other foster parents.</td>
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<tr>
<td>College and university closures: closures of institutions of postsecondary education may leave current or former foster youth without stable housing options, one-fourth to one-third of homeless youth have been in foster care.</td>
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<td>Social distancing: for new reports of maltreatment and families receiving in-home child welfare services, case workers may be unavailable to complete important safety checks, biological parents may be unable to comply with court-ordered plans (eg, substance use testing), especially if courts close, and foster children may be isolated from birth families.</td>
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<tr>
<td><strong>Children with medical complexity</strong></td>
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<tr>
<td>Reduced health care access: CMC are often dependent on medical technology (eg, feeding tubes, respiratory equipment) and need continuous care from multiple service providers (eg, home health, primary and specialty providers).</td>
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<tr>
<td>Promote, reimburse with mental health parity, and provide technical guidance for telehealth and telephonic mental health visits, including by school counselors (school counseling resources and recommendations); and existing mental health providers with various licenses (eg, doctoral, LCBSW, LPC, LMFT, LCAS) to promote continuity of care and parental mental health care access.</td>
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<tr>
<td>Develop and promote the use of statewide telehealth programs (eg, NC-PAL) to provide consultative services to address child mental health needs during school closure.</td>
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<td>Develop and distribute developmentally appropriate guidelines and materials to help parents communicate clearly and honestly about COVID-19. Examples include #COVIDBOOK, an interactive book to explain COVID-19 to children; parent resources (SAHMNSA, Association for Child Psychoanalysis, National Association of School Psychologists) in how to respond for current news that can be modified by grade level.</td>
</tr>
<tr>
<td>Encourage the media to provide child- and teenager-targeted news reporting for transparent information that is not fear based (eg, Newsela for current news that can be modified by grade level).</td>
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<tr>
<td>Develop and distribute recommended lists of best practices and virtual programs that allow for physical distancing and emotional support among children. Examples include social media with a family media use plan, mindfulness activities for the whole family (Growga), or virtual volunteer opportunities for youth (Do Something).</td>
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<tr>
<td>Explore the feasibility (regulatory, technology) and reimbursement strategy for telehealth group therapy visits to support child mental health.</td>
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<tr>
<td><strong>Children with medical complexity</strong></td>
</tr>
<tr>
<td>Reduced health care access: CMC are often dependent on medical technology (eg, feeding tubes, respiratory equipment) and need continuous care from multiple service providers (eg, home health, primary and specialty providers).</td>
</tr>
<tr>
<td>Provide additional guidance for pediatric home health and durable medical equipment agencies on in-home care practices, isolation procedures, preservation of personal protective equipment used for daily in-home care (eg, gloves, masks); augmentation of home health workforce (eg, pediatric nurses with reduced in-person clinical responsibilities during the emergency response); and increased training for home health workforce on coordinating with remote medical providers.</td>
</tr>
<tr>
<td>Proactive outreach to families of CMC through regularly scheduled touch points, use of remote monitoring, or reimbursable telehealth virtual visits.</td>
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</tbody>
</table>
of evidence-based systems (eg, statewide telehealth mental health service) to support behavioral health care in primary care. Intense and frightening pandemic media coverage may trigger behavioral health conditions in children; developmentally appropriate materials can help parents communicate transparently about COVID-19 with their children. Additionally, physical isolation from peers and support networks may exacerbate underlying behavioral health issues. Online programs and group teletherapy visits that provide emotional support while maintaining physical distance are novel mitigating strategies that should be considered for reimbursement. Importantly, parents also need support and access for their own behavioral health needs.

**CHILDREN IN FOSTER CARE OR AT RISK FOR MALTREATMENT**

As psychosocial and financial stresses build during the pandemic, children are vulnerable to new or additional abuse or neglect, similar to the increased interpersonal violence in China during the quarantine periods. Strategies outlined for children with behavioral health conditions will also benefit the >400 000 US children in foster care and all children at risk for maltreatment in this stressful time. The added stress and school closures may lead foster parents to determine that they are unable to provide foster care, resulting in placement disruptions. Broad-reaching paid leave, economic relief programs, and virtual emotional support for caregivers could reduce household stress and in turn, maltreatment rates. University closures and other economic hardships may leave many older current and former foster youth without stable housing. In response, funding from the John H. Chafee Foster Care Independence Program, which promotes current and former foster youth self-sufficiency, can support room and board assistance for these youth. For new maltreatment reports and families receiving child welfare services, case workers may be unavailable to complete important safety checks because of social distancing mandates, and biological parents may be unable to comply with court-ordered plans (eg, substance use testing). New virtual options are therefore needed for making child welfare visits, meeting court requirements, and maintaining birth family rights. For candidates for foster care, the Family First Prevention Services Act allows states to use title IV-E funds for child and family services (eg, mental health, substance use, and parenting programs) that could potentially be delivered virtually.

**CHILDREN WITH MEDICAL COMPLEXITY**

The risk for COVID-19 among CMC is unclear but presumed to be higher than among children without medical complexity. CMC typically have multiple chronic conditions, functional limitations, medical technology dependence (eg, feeding tubes), and a complex network of service providers and caregivers critical to maintain day-to-day health. Care network disruptions could generate outsized adverse consequences for CMC. As primary prevention,TABLE 1 Continued

<table>
<thead>
<tr>
<th>Risks From COVID-19 Pandemic Response</th>
<th>Recommended Mitigation Strategies</th>
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<tr>
<td>School closure: CMC often receive medical (eg, medication administration, feeding and/or nutrition) and other services (eg, physical and/or occupational therapy) at school. School provides a regular source of respite for families.</td>
<td>to provide early and expanded medication, supplies (special consideration for face masks and respiratory equipment), and nutritional support.</td>
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<tr>
<td>Social distancing: parents of CMC at baseline carry tremendous responsibilities to provide complicated medical care, often while concurrently maintaining their own health employment and health for other family members; all of these challenges are exacerbated by physical distancing.</td>
<td>Support formation of family mutual aid resource groups for critical medical supplies for CMC (eg, specialty compounding pharmacies, pediatric formulas, specialized pediatric equipment such as tracheostomies and feeding tubes).</td>
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<td><em>LCAS, licensed clinical addition specialist; LCSW, licensed clinical social worker; LMFT, licensed marriage and family therapist; LPC, licensed professional counselor; NC-PAL, NC Psychiatry Access Line; SAMHSA, Substance Abuse and Mental Health Services Administration; Triple P, Positive Parenting Program.</em></td>
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<td><em>Directed for policy makers.</em></td>
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<td><em>Directed for community organizations.</em></td>
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and specialty health care access is reduced, novel guidance for home health and medical equipment agencies is needed on in-home practices, including on conserving personal protective equipment and augmenting the home health workforce.30 Telehealth reimbursable services are essential to preserve access to tertiary care center–based multispecialty medical care and school-based ancillary services (eg, physical and/or occupational therapy). Novel ancillary service telehealth visits can educate parents on how to deliver the therapies at home. Telehealth medical visits can be strengthened with remote monitoring integration and interstate health care support. Like caregivers of other at-risk child groups, CMC caregivers will need support as their usual care networks shrink because of social distancing and/or COVID-19 illness. For these families, mutual aid resource groups, family resource centers, respite child care, and caregiver support groups with expertise in CMC care and supply needs can help mitigate increased psychosocial and financial stress.

LOOKING AHEAD

Beyond the risk of illness from COVID-19, the social and medical consequences of the unprecedented public health measures needed to slow the viral spread may pose an even greater threat to children, particularly those with behavioral health needs, in foster care or at risk for maltreatment, or with medical complexity. Common across the recommended risk mitigation strategies is the need for rapid implementation and reimbursement for virtual services, including cross-sector collaboration to maintain continuity of necessary supports and services (eg, in schools, child welfare, and child care settings). Many community-based and smaller agencies (eg, child welfare, home health agencies, therapy practices) will require technical assistance to implement virtual services. Flexibility of roles across sectors can also be leveraged (eg, teachers in China contacted students daily for education as well as for health and safety screening). Also common across strategies is support at the family level. Primary care providers, who already engage with the family unit, can enact or promote the recommended strategies, including proactively reaching out to these at-risk populations and sharing local resources with families.

The pandemic response has forced the development of strategic relationships, policy reforms, and new practices, which will accelerate care integration and payment redesigns that at-risk children need now and in the future. The redesign will require determining which strategies (eg, expanded telehealth) are working and what can be continued as part of routine care delivery. Existing pediatric care transformation learning networks can lead the way in making such recommendations, which will improve disaster preparedness for child-serving systems.

The social and health systems for children will be fundamentally transformed because of this pandemic. Clinicians, teachers, and social service providers are stepping out of their brick-and-mortar institutions to reach children in their homes and communities to deliver critical health and well-being services. The innovations in the systems that support at-risk children and families are long overdue and needed now more than ever; such innovations will position us to deliver higher value and better integrated care in the future for all children.

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