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School-Age Children’s Wellbeing and School-Related Needs During the COVID-19 Pandemic

Rebecca N. Dudovitz, MD, MSHS; Kyla Thomas, PhD; Megha D. Shah, MD, MPH, MS; Peter G. Szilagyi, MD MPH; Nathalie Vizueta, PhD; Sitaram Vangala, MS; Rashmi Shetgiri, MD, MSHS, MSCS; Arie Kapteyn, PhD

From the UCLA Department of Pediatrics and Children’s Discovery and Innovation Institute (RN Dudovitz, PG Szilagyi, and N Vizueta), UCLA Mattel Children’s Hospital, University of California at Los Angeles, Calif; Dornsife College of Letters Arts and Sciences (K Thomas and A Kapteyn), Center for Economic and Social Research, University of Southern California, Los Angeles, Calif; Los Angeles County Department of Public Health (M Shah and R Shetgiri), Office of Health Assessment and Epidemiology, Los Angeles, Calif; and Department of Medicine Statistics Core (S Vangala), David Geffen School of Medicine, University of California at Los Angeles, Calif. The authors have no conflicts of interest relevant to this article to disclose.

Address correspondence to Rebecca Dudovitz, MD, MSHS, Department of Pediatrics, General Pediatrics Division, David Geffen School of Medicine at UCLA, 10833 LeConte Ave 12-358 CHS, Los Angeles, CA 90095 (e-mail: rdudovitz@mednet.ucla.edu).

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BACKGROUND AND OBJECTIVES: The COVID-19 pandemic and related school closures may have disrupted school-related supports and services important to children’s wellbeing. However, we lack national data about US children’s wellbeing and family priorities for school-related services. We sought to determine 1) children’s social-emotional wellbeing and 2) needs and priorities for school-based services in the 2021−2022 school year among a US sample of parents of school-aged children.

METHODS: In June 2021, we surveyed 1504 parents of children enrolling in grades K-12 in the 2021−2022 school year participating in the Understanding America Study, a nationally representative probability-based Internet panel of families completing regular internet-based surveys (Response rate to this survey was 79.2%). Parents completed the Strengths and Difficulties Questionnaire and reported their needs for school-related services regarding “support getting healthcare”, “mental wellness support”, “food, housing, legal or transportation support”, and “learning supports and enrichment.”

RESULTS: Approximately one-quarter of children had deficits in hyperactivity (26.1%), one-third in peer problems (32.6%), and 40% in prosocial areas. Most parents (83.5%) reported a school-related need, with 77% reporting learning supports and enrichment needs and 57% reporting mental wellness needs. The highest priority needs were for tutoring, socialization, increased instructional time, coping with stress, and physical activity.

CONCLUSIONS: US school children have high social-emotional and school-related needs. Investments in schools are urgently needed, particularly for learning supports and mental wellness, to meet the high demand for services and parents’ priorities to support child health and wellbeing.

KEYWORDS: COVID-19 pandemic; schools; wellbeing

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WHAT’S NEW

In this nationally representative sample, we found deficits in children’s wellbeing across sociodemographic groups and high levels of school-related needs. Findings suggest investing in schools may be critical to meet the high demand for services supporting child health and wellbeing.

SCHOOL CLOSURES and distance learning due to the COVID-19 pandemic have had an enormous impact on children’s learning and social-emotional development, including widening educational inequities. Many students, particularly those from minoritized racial and ethnic groups, may have lost more than a year of learning. Education is a powerful social determinant of future health and life-expectancy and the impact of this loss may have long-lasting health implications.

In addition, the disruption of school-related social supports and access to services, including free/reduced price meals, developmental support services, and school-based physical and mental healthcare are likely to have direct and immediate negative impacts on children’s health. Many low-income families rely on schools to meet these critical basic needs, which support students’ academic achievement as well as their health and wellbeing. Further, increased stress and isolation coupled with limited opportunities to form and strengthen supportive relationships due to school closures, may have especially impacted children’s mental health and social-emotional

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wellbeing. The negative impact of school closures on student education, mental and physical health is disproportionately concentrated among low-income and Black and Latinx children. These same groups of children experienced pre-existing inequities in education and health. However, there is little data on the state of children’s social-emotional wellbeing following the very challenging 2020–2021 pandemic-related school year.

Given this context, it is critical to identify and address children’s current needs with respect to school function, health, and wellbeing. Schools, parents and child health advocates are seeking to address potentially increased health, academic, and social needs of school-aged children now and in the coming years of pandemic recovery. Identifying the needs and priorities of school age children and their families, as well as how needs differ across sociodemographic groups, can help guide future investments. Parents have a unique perspective on children’s needs, and their voice should be included when policy-makers and school leaders decide how to direct school funding, particularly in marginalized communities. However, there are no national studies documenting the current state of school-aged children’s social-emotional wellbeing and parent opinions regarding their needs and priorities for specific school-related academic, social, and health care services.

To address this gap, we conducted a national survey of parents of school-aged children to determine 1) children’s current level of social-emotional wellbeing and 2) parents’ perceived needs and priorities for school-based services in the upcoming school year.

**METHODS**

**DATA COLLECTION AND POPULATION**

We surveyed parents participating in the Understanding America Study (UAS), a nationally representative probability-based internet panel of approximately 9,000 noninstitutionalized US adults recruited using address-based sampling. Respondents without a prior internet connection are provided with a computer tablet and broadband internet. From March 2020 to July 2021, UAS panelists were invited to participate in a longitudinal tracking survey about the COVID-19 pandemic. Approximately 90% of UAS panelists participated. Data for this analysis were drawn from a survey administered online June 30, 2021–August 22, 2021 to UAS participants who are the parent of a child enrolling in school in grades K-12 for the 2021–2022 school year. Respondents were eligible to participate in our survey if they had, in the COVID tracking survey, identified at least one household member entering grades K-11 in the fall of 2020. Eligible respondents receive email and postcard invitations to log onto their personal UAS web-page and complete the online survey. In our survey, these respondents were asked about the same child as in the COVID tracking survey if the selected child was eligible for or entering grades K-12 for the 2021–2022 school year. If the selected child was not eligible for or entering grades K-12 for the 2021–2022 school year, a different child from the household was selected or the respondent was dropped from the survey. All UAS surveys are available in English or Spanish.

**MEASURES**

**SOCIAL-EMOTIONAL WELLBEING**

Parents completed the validated, 25-item Strengths and Difficulties Questionnaire, assessing well-being across domains of emotional problems, conduct problems, hyperactivity/inattention, peer relationship problems, and prosocial behavior. Prosocial items assess the degree to which children are considerate of other’s feelings, helpful, and kind. The first 4 subscales are summed to create a total difficulties score ranging from 0 to 40 with higher scores corresponding to more difficulties. Population norm cut-offs identify responses as normal, elevated, high, and very high for the total difficulties, emotional problems, conduct problems, hyperactivity problems, and peer problems scales and normal, slightly low, low, and very low for the prosocial scale. These cut-offs were established such that, for a typical population, 80% of children score in the normal range, 10% in the elevated/slightly low range, 5% in the high/low range, and 5% in the very high/very low range. Finally, parents are asked to report whether they think their child has difficulties in any of the following areas: emotions, concentration, behavior or being able to get along with other people, with response options of “no,” “yes, minor difficulties”, “yes, definite difficulties,” and “yes, severe difficulties.”

**CHILD HEALTH STATUS**

Parents were asked to rate their child’s health in general as excellent, very good, good, fair, or poor, using a validated measure of overall child health status.

**SCHOOL-RELATED NEEDS AND PRIORITIES**

Parents were asked, “In thinking about your child’s needs and your family’s needs right now, which of the following would you like your child’s school to offer?” and were able to select all that apply from the following categories: “support getting healthcare”, “mental wellness support”, “food, housing, legal or transportation support”, and “learning supports and enrichment.” Parents who selected a category of need were then presented with a more detailed list of potential services within that category. Finally, a list of the specific services each parent selected was displayed, and parents were asked to prioritize their most important, second most important and third most important need. These items were developed based on iterative rounds of feedback with public health and school system partners, as well as on informal pilot testing for construct and content validity with parents of school-aged children. To create an overall priority ranking, we used a point system, where first, second and third choice
items were given three, two, and one point respectively. Total points for each item were summed, and items were ranked highest to lowest.

**Sociodemographic Characteristics**

Parents reported the grade their child was entering in the 2021–2022 school year. We categorized grade level according to those traditionally served by elementary schools (K-5th grades), middle schools (6th–8th grades), and high schools (9th–12th grades), as school services might be deployed differently across these configurations. In addition, self-reported parent and child characteristics were obtained from the previously administered UAS Household Survey to examine disparities in children’s wellbeing and school-related needs by race, ethnicity, parental employment, household income, and gender. Participants update the Household Survey every 3 months.

**Data Analyses**

Weighted means and proportions described sample characteristic and outcomes. Weighted linear regressions examined demographic factors associated with the total difficulties and prosocial scores, and weighted Poisson regressions tested whether school-related needs were associated with demographic factors. Adjusted beta coefficients and risk ratios with model-robust 95% confidence intervals were used to summarize these associations. All analyses were conducted in SAS v. 9.4 (SAS Institute Inc., Cary, NC). Missing data represents <1% for all variables, so complete cases were used in this analysis with post-stratification weights adjusting for non-response. This study was reviewed and approved by the University of Southern California Institutional Review Board.

**Results**

Overall 1743 of the 2201 eligible parents of a school-aged child enrolling in K-12th grade school for the 2021–2022 school year responded to the survey for a response rate of 79.2%. Our weighted analytic sample was limited to the 1504 respondents with a valid survey weight. The excluded observations were due to the presence of special sample of young mothers that is not nationally representative and hence those participants do not have a sample weight and were excluded from this analysis. As seen in Table 1, the sample is demographically and regionally diverse. A substantial majority of parents (36.7%) report not currently working, 24.8% earn less than $30,000 a year, and 13.4% were born outside the United States. About 47% of parents responded regarding a child in grades K-5, 24% regarding a child in grades 6 to 8, and 29% regarding a child in grades 9 to 12. Finally, 84.2% of parents reported that their child’s health was excellent or very good.

Figure 1 and Appendix Table 1 show the percent of the sample scoring in each category on the strengths and difficulties questionnaire subscales. Just over 23% of children scored outside the normal range on total difficulties, with over one-quarter (26.1%) scoring outside the normal range on the hyperactivity subscale and about one-third (32.6%) scoring outside the normal range on the peer problems subscale. In addition, 40% of children scored below the normal range on prosocial strengths. Finally, 32.1% of parents reported that their child had minor difficulties and 13.4% reported definite or severe difficulties.

A large proportion of the sample (83.5%) reported having at least one school-related need with most (80.1%) reporting 3 or more needs. Overall, 77% reported learning supports and enrichment needs, 57% reported mental wellness needs, and 33% reported needs related to support getting healthcare and food, housing legal, or transportation support, respectively. As seen in Table 2, the highest priority need was tutoring, which was reported by over half the sample, followed by help building social relationship (reported by 61%), increased instructional time (46%), helping your child cope with stress or anxiety (47%), and physical fitness and sports (64%). Of note, a need for continued virtual learning was cited by 37% of parents.
Appendix Table 2 shows the sociodemographic characteristics of those reporting one of the top 5 highest priority needs. A need for tutoring was cited most often by parents of Black children (71%), compared to other racial or ethnic groups (range 48.5%-61.1%), and parents with lower income (63.2% among those earning less than $30,000/
year) compared to higher income parents (47.6% among those earning $100,000 or more). Help with child socialization was cited more often by parents of elementary and middle school children (65.3% and 66.9%, respectively) than parents of children in high school (49.4%). A similar pattern is noted with regards to increased instructional time, which was reported by 47.2% of elementary school and 52.4% of middle school parents, but only 37.4% of high school parents. A larger percentage of working parents (48.4%) cited a need to help their child cope with stress and anxiety than those not currently working (43.8%). Notably, the majority of parents in every sociodemographic group cited a need for physical fitness and sports.

Table 3 shows the results from multivariate regressions examining differences in child wellbeing and school-related needs across sociodemographic groups. We found few differences in total difficulties or prosocial scores across groups. Lower total difficulties score was associated with female gender and better health status, while higher prosocial score was associated with higher income, female gender, and better health status. In contrast, entering 9th to 12th grade was associated with a lower prosocial score.

With regards to school-related needs, increased parental age was associated with greater likelihood of reporting a healthcare, mental wellness, or learning need. Compared to white parents, identifying as Asian or Latinx was associated with higher likelihood of reporting a health care need. However, race and ethnicity were not associated with other types of school-related needs. Parental employment was associated with lower likelihood of having a healthcare need but higher likelihood of reporting a mental wellness need, while higher income was associated with a lower likelihood of reporting a food, housing, legal, or transportation need, in a dose-response fashion. Income was not significantly associated with reporting a mental wellness or learning need. Female gender was associated with higher likelihood of reporting a healthcare related need. Though representing a small number of participants (n = 5, 0.4% of the sample), non-binary child gender was associated with increased likelihood of reporting a need in all categories. Finally, overall health status was associated with greater likelihood of reporting health care, mental wellness, and learning school-related needs. There were no differences in school-related needs across grade levels.

**DISCUSSION**

In this national sample of parents of school-aged children, we found low rates of parent-reported child social-emotional wellbeing and very high levels of school-related needs at a time when the children are entering a new school year. In particular, results suggest the greatest deficits in child wellbeing related to peer problems and prosocial skills and large numbers of children with needs related to learning supports and mental wellness across sociodemographic groups. These findings are consistent with recent reports suggesting increases in internalizing and externalizing symptoms for school-aged children following school closures and stay-at-home orders. Our study is the first, to our knowledge, to characterize children’s social-emotional wellbeing more than one-and-a-half years after the start of the pandemic and the first to describe school-related needs.

The percent of parents reporting difficulties in children’s social-emotional wellbeing is substantially higher than was reported in national samples before the pandemic. In the 2018 National Health Interview Survey, for example, parents completed the Short Strengths and Difficulties Questionnaire and 5.6% of parents reported definite or severe difficulties, versus more than 13% in our sample, and 18.1% reported minor difficulties, versus more than 30% in our sample.20,21 Similarly, compared to the 2018–2019 National Survey of Children’s Health, where 90.1% of 6 to 11 year olds and 87.4% of 12 to 17 year olds were rated in excellent or very good health, we found worse overall health status in the current study.17 Together, these findings reinforce the notion that, although school-aged children have largely experienced low morbidity and mortality related to COVID-19 infection,22 their overall health and wellbeing may be significantly impacted by the pandemic.

Although the level of school-related needs before the pandemic is unknown, the large number of parents across sociodemographic groups reporting a current school-related need might be driven, in part, by negative impacts of the pandemic and school closures on children’s wellbeing, particularly with regards to learning and mental wellness. Indeed, the absence of significant associations between reporting a mental wellness and learning need and sociodemographic characteristics suggests these needs are widespread. However, we also found greater deficits in social-emotional wellbeing associated with race/ethnicity and income. This is consistent with concerns that the pandemic may have exacerbated health disparities.23 Race, ethnicity, and income were also associated with some school-related needs more than others, which lends further support to the notion that families have experienced differential pandemic impacts, depending on their resources.

Notably, many of the specific needs prioritized by parents are highly addressable and likely to support both academic achievement and health. Further, approximately one-third of parents cited needs related to social determinants of health and health disparities,24 such as food and housing. Investments in school and community resources to support these basic needs for the current generation of students may have long-term impacts on public health. Additionally, pediatricians can play an important role in addressing social determinants of health, by screening for and intervening on social determinants in the clinical setting.25 Pediatricians can also play a crucial role in identifying and managing mental health needs, which were widespread in this sample.26 The AAP’s Mental Health Toolkit (https://toolkits.solutions.aap.org/mental-health/home) offers important resources for this, and pediatricians can continue to advocate for accessible mental health care through integration with schools and primary care.27 Finally, though a small group, the high level of
Table 3. Multivariate Associations of Child and Family Demographics With Child Social-Emotional Wellbeing and School-Related Needs

| Social-Emotional Wellbeing Beta (95%CI) | School-Related Needs Adjusted Risk Ratio (95%CI) |
|----------------------------------------|-----------------------------------------------|
| Total Difficulties Score               | Support Getting Healthcare                     |
| Prosocial Score                        | Mental Wellness Support                        |
|                                       | Food, Housing, Legal, or Transportation        |
|                                       | Learning Supports & Enrichment                 |
| **Parent age in years**                |                                               |
| Parent gender                          |                                               |
| Male                                   | 1.01 (1.00, 1.02)                              |
| Female                                 | 1.00 (1.00, 1.01)                              |
| **Adjusted Risk Ratio (95%CI)**        | 1.00 (0.99, 1.01)                              |
| **Parent gender**                      | 1.00 (1.00, 1.01)                              |
| **Male**                               |                                               |
| **Female**                             |                                               |
| **Prosocial Score**                    |                                               |
| **Support Getting Healthcare**         |                                               |
| **Mental Wellness Support**            |                                               |
| **Food, Housing, Legal, or Transportation** |                                           |
| **Learning Supports & Enrichment**     |                                               |
| **Parent race/ethnicity**              |                                               |
| White                                  | 2.67 (1.56, 4.55)                              |
| Asian                                  | 1.10 (0.76, 1.59)                              |
| Black                                  | 1.47 (0.85, 2.54)                              |
| Latinx                                 | 0.95 (0.76, 1.18)                              |
| Other                                  |                                               |
| **Parent country of origin**           |                                               |
| USA                                    | 0.78 (0.61, 0.99)                              |
| Other                                  | 1.21 (1.02, 1.43)                              |
| **Region**                             | 0.93 (0.72, 1.19)                              |
| **Household income**                   | 1.04 (0.94, 1.16)                              |
| Less than $30,000                       |                                               |
| **$30,000-$59,999**                    |                                               |
| **$60,000-$99,999**                    |                                               |
| **$100,000 or more**                   |                                               |
| **Parent employment**                  |                                               |
| Not currently working                   |                                               |
| Currently working                       |                                               |
| **Child’s grade**                      |                                               |
| K-5th grade                            |                                               |
| 6th-8th grade                          |                                               |
| 9th-12th grade                         |                                               |
| **Child’s health status**              |                                               |
| **Statistically significant associations are presented in bold.**

The associations presented in bold are statistically significant.
need cited by parents of children whose gender identity is non-binary suggest this may constitute a population that warrants special attention and support.

Although strength of this study is the use of a nationally representative probability-based sample, including many participants from minoritized populations, our study has a number of limitations. The cross-sectional nature of our study design limits our ability to draw causal inferences. In addition, items assessing school-related needs are not validated and results reflect one point in time, prior to the start of the 2021–2022 school year for most participants. Hence, we cannot comment on how child wellbeing or school-related needs may have changed over time. We are limited by the demographic information available in the UAS Study, which does not include federal poverty level. We also present analyses across multiple outcomes, which increases our chances of committing a type II error. However, the consistent pattern of findings makes this less likely.

CONCLUSIONS

Despite these limitations, findings have important implications for schools, parents, pediatricians, and child health advocates regarding how to direct current and future school and health-related investments to support children’s social–emotional wellbeing. Schools might consider investing in greater learning supports and enrichment and mental wellness, as a majority of parents report needs related to these domains. Schools serving a high proportion of children in poverty might also be prioritized for services related to health care and social needs, which are more commonly reported for low-income families, and are critical determinants of child health and academic performance. Enhanced school funding and partnerships with community-based organizations might help build the capacity of schools to meet the needs of children and families during the ongoing pandemic and recovery.

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SUPPLEMENTARY DATA

Supplementary data related to this article can be found online at https://doi.org/10.1016/j.acap.2022.01.015.

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