




Exploring children's knowledge of COVID-19 and stress levels associated with the pandemic in Nigeria: a mixed-method study

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ABSTRACT

Background Children have been relatively spared from the direct effects of COVID-19 globally, but there are significant concerns about indirect effects on the most vulnerable children's well-being. Nigeria is the largest African nation, but little is known about children's experience of the COVID-19 pandemic. Our aims were to determine children's knowledge of COVID-19 and their mental health responses to the pandemic.

Methods Children aged 6–17 years living in Calabar, Nigeria, were surveyed using a combination of online data collection assisted by parents and on-site data collection at schools. Parents filled out sociodemographic details, while children answered questions about COVID-19 knowledge and preventive measures. An adapted version of the 'Perceived Stress Scale for Children' was used to assess stress with additional free text space for expression of views and experiences of COVID-19.

Results A total of 265 children completed questionnaires, mean age was 12.5 years, 52.1% were girls. All children knew about the virus and over two-thirds (67.8%) had good knowledge of COVID-19 transmission. Children identified television (60.8%), parents (44.2%) and social media (32.8%), as main sources of COVID-19 information. The overall mean stress score among the children was 20.47. Children mentioned the following as stressors: fear of the COVID-19 disease, effect of pandemic restrictions on schooling and social interactions as well as home/family tensions. Parental love and support were overwhelmingly reported as strengths.

Conclusions Nigerian children in this study had good knowledge and understanding of the COVID-19 pandemic and preventive measures to counter the virus. Children had high stress levels and expressed pandemic-related concerns but parental love and support were mitigating factors. Government and child health service providers need to tailor health and support services in response to children's needs and concerns.

INTRODUCTION

The public health crisis born from the emergence and spread of the SARS-CoV-2, or COVID-19, has dramatically changed the global public health landscape.¹ The

WHAT IS ALREADY KNOWN ON THIS TOPIC?

- ⇒ The effects of the COVID-19 pandemic and infection control measures have been wide reaching.
- ⇒ The pandemic disproportionately affects the health and well-being of children and young people in low-income settings and the most marginalised.
- ⇒ Studies from other low-resource settings have highlighted children suffering most from the effects of financial strain and lack of education.

WHAT THIS STUDY ADDS ?

- ⇒ Nigerian children in the study had adequate knowledge of COVID-19 and associated preventive measures.
- ⇒ The effect of the pandemic and its control measures on children's mental well-being using psychological stress scales showed high stress scores.
- ⇒ The positive effect of parental support and increased parental contact caused by lockdown due to the pandemic featured strongly in children's reported coping mechanisms.

How this study might affect research and public policy ?

- ⇒ Greater attention should be paid by researchers to the needs of children and enabling their experiences and voices to be heard.
- ⇒ Governmental response to the pandemic and recovery efforts should consider the rights of the child with specific efforts targeted at recovery of the educational system from the pandemic and psychological support for children.

pandemic brought drastic changes to people's livelihoods, with economic, social and infrastructural disruptions across the globe. Children and young people (CYP) have been relatively spared from significant morbidity and mortality, but have faced indirect effects of the pandemic and related health measures.² At the height of the pandemic, a record 1.6 billion children were out of school. The pandemic, including the impacts of public



health containment measures, impinges on CYP's access to rights and safety.²

Nigeria's first case of COVID-19 was diagnosed in February 2020. Consequently, the Nigerian government instituted a series of virus containment measures.³ Federal policies were developed in line with WHO strategies for virus containment: the institution of restrictions on international travel, closure of schools, universities, churches, mosques and bans on large social gatherings.^{3 4} There have been attempts to document how the pandemic has impacted mental health and lived experiences of adults globally, including specific studies in Nigeria.^{5 6} These studies conducted in Nigeria have largely excluded children's experiences. Other reports noted increased gender-based violence targeting women and children, and predicted that Nigerian children would suffer from pandemic control measures.^{7 8} In sub-Saharan Africa, there were significant concerns about the mental health impacts of COVID-19 restrictions, particularly school closures and stay-at-home policies which heighten family and parent-child stressors.⁹ As seen in other countries, Nigerian children may have also suffered consequences of school closure including loss of play, supplementary meals, physical and social networking, and isolation.^{10 11}

This study was conducted in Calabar, the capital of Cross River State in Southern Nigeria, which has an estimated population of 371 022.¹² In compliance with federal directives, state lockdown came into effect in the latter part of 2020, with cessation of interstate travel.¹³ In addition to pandemic restrictions, civil unrest led to the implementation of a statewide curfew, which was lifted in mid-2021.¹⁴ These protests over COVID-19 food subsidy items and police violence involved looting of businesses, governmental establishments and private homes resulting in tighter movement and security measures by the government. This increased social, economic and institutional strain, threatening livelihoods and well-being of families and children.^{15 16} Our aims were to assess children's knowledge of COVID-19 and experience of stress during the pandemic, using a structured tool. A simple stress screening tool was used to capture experiences, with the addition of free-text responses to allow children's voices to be heard.

METHODS

We undertook a mixed-methods cross-sectional study from August 2020 to March 2021. Children aged 6–17 living in Calabar from March 2020 were recruited. The sample size was determined using minimum sample size for descriptive studies.¹⁷

This study included online data collection from CYP who participated during school closures, and data collection carried out at schools after reopening. Purposive and snowball sampling were used to recruit online participants. Researchers disseminated the online questionnaire link to parents through social, religious and school groups within the study area. Parents also forwarded

the link to other parents within the locality. Online data collection halted when no new entries were received. A stratified sampling method was used to recruit respondents in schools that met COVID-19 reopening guidelines within Calabar. A list of these schools was obtained from the State Ministry of Education and grouped into public and private ownership. A sampling ratio was created using the sample size required and the total population in the schools approved for reopening. This ratio was used to obtain the number of children to be polled from each group of privately owned versus public/government owned schools. A simple ratio of the number of private to public schools was used to determine the number of schools to be visited. A random number generator was used to identify specific schools per category.

An equal sample size was thereafter taken from each school. Each sample was evenly distributed across all grades and then streams of classes. In each class, the register was used to pick every second name on the class list until the allocated sample for the class was exhausted. Children who wished to participate took forms home to their parents who provided signed consent and answered brief demographic questions. These questions covered social class information, type of schooling during the pandemic, tribe and religion (online supplemental file). Social class was grouped according to Oyedeji social classification which allocates a score to each parent based on their occupation and level of education. The score is tallied together to provide a grouping for the family from level 1–5 which is further reclassified into upper, middle and lower social classes.¹⁸ For online data collection, parents completed consent and forwarded the questionnaire links to their children to complete. Younger children or those without personal devices were aided by parents, who were instructed to record only the child's responses. For onsite data collection, children completed questionnaires in school with investigators present after returning parental consent forms. The instrument was disseminated in English, which is the common language of communication in the region.

Patient and public involvement

The researchers liaised with parents and children during the prepilot study to identify outcome measures which children felt most concerned about. This was instrumental to the identification of a study tool that considered schooling and social activity via play.

Informal discussions were held with children during clinic visits about their opinions on the pandemic and control measures. Parents were involved in the voluntary recruitment of other parents within the study area by forwarding online links to other parents only. Key identified parents who were leaders of parent-teacher associations in the selected schools also perused the questionnaires before the study commenced. Results of the study were sent to participants parents via email, text or phone calls. A correspondence sheet was used for the school-based arm of the study while online respondents

Perceived Stress Scale (Children)

The following questions ask you about your feelings and thoughts during COVID-19 pandemic. For each question you will be asked to circle the picture that best fits your answer.

Name (or Initials or Nickname): _____ Date: _____
 Age: _____ Birthday: _____ I am a: Boy Girl
 not Decided

- Which one has a lot of something?
- During the COVID-19 pandemic, how often did you feel rushed or hurried?

 What made you feel so? _____
- During the COVID-19 pandemic, how often did you have enough time to do what you wanted?

 What did you do? _____
- During the COVID-19 pandemic, how often did you feel worried about being too busy?

 What made you worry about being busy? _____
- During the COVID-19 pandemic, how often did you feel worried about grades or school?

 What made you worry about school? _____
- During the COVID-19 pandemic, how often did your mom and/or dad make you feel better?

 Who made you feel better? How did they make you feel better? _____
- During the COVID-19 pandemic, how often did your mom and/or dad make you feel loved?

 What made you feel loved? _____
- During the COVID-19 pandemic, how often did you feel scared or nervous?

 What made you feel scared or nervous? _____
- During the COVID-19 pandemic, how often did you feel angry?

 What made you angry? _____
- During the COVID-19 pandemic, how often did you feel happy?

 What made you happy? _____
- During the COVID-19 pandemic, how often did you get enough sleep?

 What made you not sleep well? _____
- During the COVID-19 pandemic, how often did you have fights with your friends?

 Why did you have fights? _____
- During the COVID-19 pandemic, how often did you play with your friends?

 Whom did you play with? How did you play? _____
- During the COVID-19 pandemic, how often did you feel that you had enough friends?

 Please write something about your friends: _____

Thank You!

Figure 1 Questionnaire.

were contacted via phone call and email; indicating children’s stress score category and psychologist referral for children with high stress scores. Information materials were given to all the children who participated.

Tools

White *et al*’s Perceived Stress Scale-Children (PSS-C), a validated redesign of the original Perceived Stress Scale for children aged 6–17, was used to assess participants’ stress.¹⁹ The PSS-C is an easy to use tool for children: concise, efficient and well-suited to online application. The PSS-C was modified with White’s permission (see [figure 1](#)), changing the time designation in each question to ‘during the COVID-19 Pandemic’ instead of ‘in the last week’. Additionally, open-ended ‘free text’ versions of each question were added to collect qualitative data on children’s experiences. The PSS-C comprises 14 questions targeting key areas of childhood stress perception,

including experiences of time pressure, concerns about grades, parental relationships, feelings of fear, anger and happiness, sleep and friendship. Possible scores range from 0 to 39. Responses were scored from 0 to 3, with ‘never’ 0 points and ‘A lot’ 3 points. Questions 3, 6, 7, 10, 11, 13 and 14 were reverse scored, as in the original PSS-C. Higher total scores indicated higher stress perception.¹⁹

In addition to stress measures, data were collected on COVID-19 knowledge and preventative measures for COVID-19. We created a simple questionnaire using yes/no questions to assess children’s knowledge of COVID-19 transmission and their practice of preventative measures, scored as 1 mark per question (range 0–4) ([table 1](#)). These questions were based on mode of transmission of the virus and the preventative measures adopted. Questions formulated were based on COVID-19 information

**Table 1** COVID-19 knowledge and preventative measures

COVID-19 transmission knowledge		Yes	No
1	When someone who has it talks		
2	When someone who has it sneezes around me		
3	When someone who has it doesn't wear a face mask and I don't wear a face mask		
4	When someone who has it coughs		
Total			
COVID-19 Preventative measures		Yes	No
1	I wear a face mask outside the house		
2	I wash my hands when I go in and out of the house		
3	I use hand sanitiser when I am outside		
4	I do not go to crowded places		
Total			

disseminated by the government and private sector on television (TV), social media and other public fora including schools, churches and malls. The information was fact checked for validity based on scientific publications prior to inclusion in the questionnaire²⁰ Data on COVID-19 information sources were additionally collected through multiple choice responses.

Analysis

Qualitative

Free-text descriptions were analysed using thematic analysis.²¹ We triangulated the results from qualitative and quantitative data to get a full understanding of children's experiences of COVID-19.

RESULTS

Quantitative

The total number of valid entries in the study were provided by 265 children. **Table 2** lists the sociodemographic details of participants. Participants' age range was 6–17 years with an average age of 12.5 years. Majority of children were from the middle social class, one-fifth of children had no form of schooling.

Knowledge and information sources regarding COVID-19

All respondents had knowledge of the existence of COVID-19. Children identified TV (n=161, 60.8%) as the primary means by which they obtained information. This was followed by parents (n=117, 44.2%), social media (n=87, 32.8%) and lastly radio (n=70, 26.4%), with some children having multiple sources of information.

Knowledge of COVID-19 and preventative practices

Knowledge and preventative practice scores are provided in **table 3**. Knowledge was varied, but relatively high; 96 children (36.2%) obtained the highest possible score. Almost half (n=127, 48%) of children who responded had the highest possible score regarding preventative measures.

Stress scores

The overall mean stress score among participants was 20.47 (SD=5.109). The range of scores was 3–33. The mean stress score for females was 20.59 (SD=5.08) and for males was 20.34 (SD=5.224).

Table 2 Sociodemographic characteristics of study participants N=265

Parameter	Frequency	Percentage
Sex		
Male	127	47.9
Female	138	52.1
Age		
6–8	31	11.7
9–11	71	26.8
12–14	73	27.5
15–17	90	34.0
Socioeconomic class		
Upper	78	29.4
Middle	155	58.5
Lower	32	12.1
Schooling method		
No schooling	56	21.1
Physical schooling	31	11.7
Formal online classes	108	40.8
Home lessons by parents	26	9.8
Home lessons by teacher	44	16.6
Tribes		
Efik	156	58.8
Bette	67	25.2
Igbo	29	11.0
Others	13	5.0

Table 3 Score of knowledge of COVID-19 and preventive measures N=265

Parameter	Frequency	Percentage
Score of COVID-19 knowledge		
1	28	10.6
2	50	18.9
3	91	34.3
4	96	36.2
Score of COVID-19 preventive measures		
0	2	0.8
1	12	4.5
2	20	7.5
3	104	39.2
4	127	48.0

Qualitative results

Children's free-text responses revealed several pandemic-related and exacerbated stressors, while highlighting key protective factors. The most salient and prevalent responses to questions about stressors and protective factors are detailed.

Stressors

Disruptions to schooling

'I could not learn' 10year old, Male

School was a pervasive factor in children's responses about stressors during the pandemic. Uncertainty related to school disruption was notable, despite most children engaging in online school methods. Many children described 'missing school' and wanting to 'go back'. Children bemoaned 'lost schooling time', 'regressing academically' and 'declining' performance, they feared repeating classes and felt frustrated they 'could not learn'. Children worried about 'coping when school resumes' with the volume of schoolwork. One child was angry that they 'still had exams after corona (sic)'. Despite frustration with lost physical schooling, there were responses about too much online schoolwork during lockdown.

COVID-19 virus and contextual fears

'The virus might take the world including my family' 9year old, Male.

Another stressor for children was pandemic-related fear. This was in relation to mortality—being 'nervous about deaths', hearing that 'Corona kills people' and scared 'people were dying'. A few children were specifically scared about contracting COVID-19 or losing families and loved ones. Concern about the virus and awareness of its high transmissibility was notable with a 7-year-old child reporting being scared of 'what will happen when I go out'.

Responses were in highly emotive language and included how 'people went down the drain' and 'the world may come to an end'. Some responses also alluded to rioting causing 'so much disruption'. There were

prevalent feelings of not 'knowing what will happen next'. One child noted, 'things changed drastically and not in my favour'.

Pandemic restrictions

'I felt I had lost all my friends' 16year old, Female

This encompasses the stay-at-home mandates for which many children report feeling bored and trapped, distress and anger at being 'deprived of going outdoors' or not let out of their homes. It also includes general frustration at preventative measures with reports of being angry at the lockdown and feeling rushed always due to wearing facemasks. Loss of social opportunities, loneliness and missing friends was of particular concern with children upset they could not see friends, go to church and play with others. One child stated they 'had lost all my friends' over lockdown.

Home and domestic stress

A few children mentioned stress related to their parents and home life. For some, the pandemic brought increased domestic labour, with 'too many house chores'. Others mentioned punishments from parents ranging from increased 'scolding and beating at home' to having possessions 'collected' by parents. There were also reports of fighting 'with my siblings a lot' during lockdown.

Protective factors

Parents

'They always take care of me.' 6year old, Male

Children's responses to happiness and feeling loved prominently featured being taken care of and having needs met by parents. Many responses were non-specific descriptions of care: 'treating me with care', 'took care of me'. Some identified security as an expression of love, being 'protected' from outsiders and made to 'feel safe'. This notion of security included needs, with children emphasising being 'provided' for. Others said parents bought things for them, particularly to facilitate schoolwork and to, 'keep us busy and happy'. Parents purchased electronic devices and internet data to allow for remote learning. Additionally, children were bought special gifts, games, books and recreational goods. Multiple responses described new subscriptions to TV channels/streaming services. A number of responses about parents involved expressions of physical and verbal affection through being hugged and held. One child explained how parents 'carried me to the village'. Parents also provided emotional support and encouragement, 'ensuring us that we will be ok'.

Quality time with family

'Having the opportunity to discuss with my parents which I never did before now' 12year old, Female

Children's descriptions of support included increased time spent with family. Numerous responses to how parents made children feel loved asserted that parents 'spent time' with children. Many children noted that parents deliberately stayed home for this purpose and

actively engaged with children, ‘doing things we want to do’. Such ‘things’ included ‘playing’, ‘reading interesting books’, praying together, telling stories and ‘playing musical instruments’. Children also spent increased time conversing with parents. One child appreciated ‘having opportunity to discuss with my parents which I never did before’.

Food

‘They wore me a face mask and took me to Domino’s pizza because I was crying to go there’ 7 year old, Female

Food security played a central role in descriptions of having ‘needs’ met. Being fed, given special treats were mentioned more than forms of physical affection. Many children indicated that simply providing food was a way parents made them feel loved. Examples included ‘plenty’ of food provided, and ‘enough’, food at home. A number of children also noted special practices around food during the pandemic—parents made children feel loved by cooking ‘delicacies’, ‘special dishes’, buying ‘treats’ and making snacks.

Benefits of lockdown

‘I could play without thinking of school’ 8 year old, Female.

While lockdown was a source of much frustration and anxiety, some children were happy about not attending school with no homework and more time for recreation. One child described freedom to ‘play without thinking of school’, and being able to do enjoyable things without worrying about schoolwork. A number of children mentioned they were happy because they had more leisure time—to play games, watch cartoons on TV and sleep more.

DISCUSSION

This study was carried out at the peak of the COVID-19 pandemic in Nigeria. The mean stress score in this study using the PSS-C was 20.47. This is higher than the mean scores of American children with (15.44) and without pre-existing psychological conditions (11.24) found in White’s original PSS-C study.¹⁹ We acknowledge that it is not plausible to draw comparisons between Whites’s population and our study. It has however been documented that global estimates of depression and anxiety in CYP have doubled from prepandemic levels.²² There is a paucity of comparable objective assessments on pandemic related effects of the mental health of children in the West African subregion. The stress score from this study mirrors reports of stress and loneliness in Nigerian university students as well as depression and anxiety levels in the adult populace.^{5 8} There is also the possibility of pre-existing health and social inequities in Nigeria aggravating mental health outcomes with lack of social security to cushion income losses. In addition, a paucity of palliative measures to ameliorate mass suffering from hunger and social restrictions manifested in protests, rioting and looting.^{15 23} Free-text responses

from children reflected societal instability with ‘fear of riots’. In addition, a range of stressors were identified by the children including the lack of schooling and fear of the COVID-19 virus. The effects of pandemic restrictions with loss of social life, home/family tensions were cited as contributors to stress in this study. This is in keeping with reports regarding CYP during the pandemic; particularly females in the home and community who were found to be at higher risk of stress, gender based violence and abuse as well as increased depression and anxiety.^{10 22 24 25} Furthermore, younger children requiring more parents physical presence and exhibiting ‘clinginess’ could increase stress at home and responsibility of child care on older siblings.^{22 24 26} The additional burden on parents of home-schooling children or supervising online learning with generating income may also heighten home tensions with negative consequences on children.

Schooling concerns featured prominently in the reports by children in this study. Interestingly, despite majority of respondents being middle class, one-fifth of surveyed children did not have any form of schooling at the time of the study. The pandemic has increased poverty in Nigeria, Africa’s most populous nation with long-standing educational and social inequity.^{7 27} As a consequence, an already-low demand for, and access to, quality education may have weakened.¹⁶ A worsened effect of this situation on children of lower class families due to prepandemic socioeconomic and educational inequalities is expected.²³ In other studies, school disruptions during the pandemic were reported to increase stress and anxiety in children partly due to loss of social and peer group support.²⁴ The experiences from Nigeria were similar to concerns in various other countries over education during the pandemic.^{10 26 28} Concerns were expressed by respondents over school workload with online classes, on resumption and particularly halting of their education.

All children assessed were aware of the existence of COVID-19. This mirrors findings from India and Kenya, where all respondents had knowledge of the virus.^{10 11} Direct text responses from children in this study further confirmed their understanding of the COVID-19 virus and its effect on their lives and the world at large. Knowledge of transmission and preventive measures among children was good, with majority having complete awareness of transmission and practice of preventive measures. Children in this study reported unease with physical preventative measures such as wearing a face mask and handwashing. They however acknowledged the role of these practices in reducing their risk of infection.

Children’s coping mechanisms were predominantly parental support, love and provision. Worldwide trends regarding the pandemic have highlighted food security as a concern.²⁹ This agrees with children in this study documenting the knowledge of food safety in allaying fears of uncertainty. In addition, parental bonding featuring discussions supported children during the period. Interestingly, despite the positive impact of family, physical

violence was reported by respondents as constituent of identified home based stressors. Other studies have highlighted the dual role of families during the pandemic both as providing strength and support, while being a source of stress.^{30 31}

Strengths and limitations of the study

This study employed the use of mixed methods in assessing the experiences of Nigerian children during the COVID-19 pandemic. The use of an objective stress scale allowed for an unbiased view of the children's mental health. Qualitative analysis provided a hitherto unexplored access to children's feelings. The authors, however, note that a larger number of respondents came from the middle socioeconomic class; and therefore, this study cannot reflect the totality of all Nigerian children's experiences. In addition, this may have affected observations with members of the middle class largely able to provide coping mechanisms for their children and buffer effects of the pandemic by working from home, providing food and other amenities. Additionally, not all the respondents filled in the free text questions for qualitative analysis. Prepandemic levels of stress were also not available for the study area to provide further comparison of the findings in this study.

CONCLUSION

This study reports on Nigerian children's experiences during the COVID-19 pandemic. Children had good knowledge about COVID-19 as well as public health measures in keeping with other studies from low-resource settings.^{10 32} Stress levels were high with children worried about schooling, access to food, COVID-19 virus and the effect of control measures. Family-related stressors and the value of parental love and support featured prominently as stressors and coping mechanisms respectively. The public health and policy response to the pandemic and recovery in Nigeria should consider children's voices and concerns. These responses should be based on equity and child-rights for the greater good of all Nigerian children particularly the marginalised, out-of-school, children in poverty and younger children.

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Contributors OAA: conceptualised, funded, proposal note for ethical, collected data, entered, cleaned, analysed data, wrote major parts of manuscript. Responsible for the overall data. SR: data cleaning and analysis, editing. SN-R: data cleaning and analysis, writing and editing. HT: methodological support, data cleaning. EAA: assisted in writing ethical, collected data, entered data. EN: collected data, entered data. All authors previewed and contributed to manuscript writing. OAA acts as guarantor for this article.

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SUPPLEMENTARY INFORMATION**CONSENT FORM**

Dear Parent/guardian,

My name is Dr. Osamagbe Asemota and I am Doctor in the University of Calabar Teaching Hospital, Calabar. Along with other health workers, we are carrying out a study to see how covid-19 pandemic has affected children's stress and anxiety using a stress scale. The research board for health has approved that your child can be a part of this study and that it will not cause any harm to your child.

You are only required to fill out the questions asked for yourself about your personal details and that of your spouse. Please allow your child to answer the questions specified for them in the rest of the questionnaire. You will be notified of the results of your entry when you have submitted the answers. We will also provide some materials for you based on the responses we get on the forms. All your answers are confidential and none of your details will be given to anyone. You can choose not to take part in this study at any time by withdrawing your consent or not answering the questionnaire. If you will allow your child participate then please sign in the spaces below. Otherwise, you can allow your child return the empty form back to school or you can close the browser page if you are filling the form online.

CONSENT FORM

PARENTS NAME _____

PHONE NUMBER _____

EMAIL ADDRESS _____

CHILDS NAME _____

I _____ hereby give my consent to participate in the study being led by Dr. Osamagbe Asemota. I give consent for my child _____ to also take part in the study. I understand that our information will be kept confidential and I can withdraw my consent at any time.

Signature _____ Date _____

QUESTIONNAIRE

Please fill this questionnaire out as clearly as you can, if you have any questions, please ask the investigator who has given you this paper or reach me on 08036345531 or samsie10@gmail.com to explain further if you are answering it online.

A. SOCIO DEMOGRAPHY

- 1) Name (initials only)
- 2) Age
- 3) Marital status: single [], married [], divorced [], widowed [],seperated []
- 4) your occupation
- 5) Level of education: no schooling [] primary [] secondary [] b.sc [] ond [] hnd []
- 6) Spouse occupation
- 7) Level of education : no schooling [] primary [] secondary [] tetiary [] ond [] hnd []
- 8) Ffamily religion: christianity [] islam []
others (specify).....

6. Have your children been physically going to school ? yes [] no []

7. If your children have not been going to school, how is their school work done during this period?

Tick the method you have used.

online teaching provided by the school like internet, zoom, email, video lessons []

Physical lessons taught by a school teacher []

Physical lessons by parents []

CHILDRENS QUESTIONNAIRE

PLEASE ASSIST YOUR CHILD TO FILL THIS NEXT PART IF THEY CANNOT DO IT BY THEMSELVES. YOU CAN ASK THEM THE QUESTIONS AND WRITE THEIR REPLIES OR ALLOW THEM WRITE IT.

IF ELECTRONICALLY, YOU CAN TYPE THE REPLIES FOR THEM.

WE WANT TO SEE HOW MUCH YOUR CHILD KNOWS ABOUT THE CORONA VIRUS.

PLEASE ALLOW YOUR CHILD GIVE THE ANSWERS THAT THEY WISH TO. DO NOT INFLUENCE WHAT THEY SAY.

QUESTIONS ABOUT COVID-19

1. HAVE YOU HEARD ABOUT THE CORONA VIRUS /COVID-19

YES _____ NO _____

	How does a person get covid ?	YES	NO
1	When someone who has it talks		
2	When someone who has it sneezes around me		
3	When someone who has it doesn't wear a face mask and I don't wear a face mask		
4	When someone who has it coughs		
	TOTAL		
	Since the pandemic started have you been doing any of these things ?		
1	I wear a face mask outside the house		
2	I wash my hands when I go in and out of the house		
3	I use hand sanitiser when I am outside		
4	I do not go to crowded places		
	TOTAL		

IN the next part, you will pick the item that tells us how you have felt during the COVID-19 pandemic. You will also write about your feelings. If you cannot do this, you are free to stop filling the form.

Perceived Stress Scale (Children)

The following questions ask you about your feelings and thoughts during COVID-19 pandemic. For each question you will be asked to circle the picture that best fits your answer.

Name (or Initials or Nickname):

Date:

Age:
not Decided

Birthday:

I am a: Boy Girl

1. Which one has a lot of something?

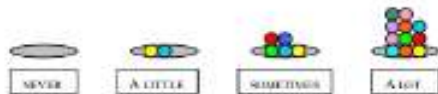


2. During the COVID-19 pandemic, how often did you feel rushed or hurried?



What made you feel so?

3. During the COVID-19 pandemic, how often did you have enough time to do what you wanted?



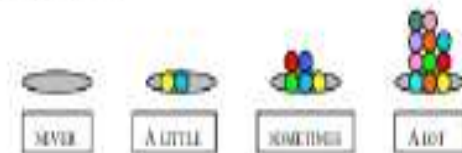
What did you do?

4. During the COVID-19 pandemic, how often did you feel worried about being too busy?



What made you worry about being busy?

5. During the COVID-19 pandemic, how often did you feel worried about grades or school?



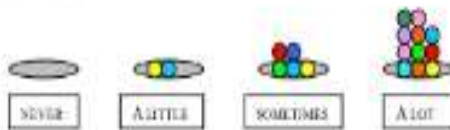
What made you worry about school?

6. During the COVID-19 pandemic, how often did your mom and/or dad make you feel better?



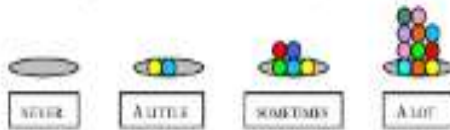
Who made you feel better? How did they make you feel better?

7. During the COVID-19 pandemic, how often did your mom and/or dad make you feel loved?



What made you feel loved?

8. During the COVID-19 pandemic, how often did you feel scared or nervous?



What made you feel scared or nervous?

9. During the COVID-19 pandemic, how often did you feel angry?



What made you angry?

10. During the COVID-19 pandemic, how often did you feel happy?



What made you happy?

11. During the COVID-19 pandemic, how often did you get enough sleep?



What made you not sleep well?

12. During the COVID-19 pandemic, how often did you have fights with your friends?



Why did you have fights?

13. During the COVID-19 pandemic, how often did you play with your friends?



Whom did you play with? How did you play?

14. During the COVID-19 pandemic, how often did you feel that you had enough friends?



Please write something about your friends:

THIS IS THE END, THANK YOU FOR FILLING OUT THE FORM.

YOU WILL BE GIVEN SOME MATERIALS OR IF THE FORM WAS FILLED ONLINE THEY WILL SENT TO YOUR PARENTS EMAIL ALONG WITH YOUR SCORES.