

## Covid Impact on Children's Education: A Case study of Punjab

### Abstract:

Covid-19 has had an unforgettable effect on the world and disrupted the whole of society. It has a major effect on the health system of the society which disrupts the economic system as well. Resultant disruption in the normal life of the people. Sudden lockdowns and restrictions on mobility have made sudden changes in the society. To curb the spread of COVID-19, social distancing and lockdown also followed in India. This causes a serious effect on the education system as it shuts down all schools, colleges, and universities. The new system of online education was initiated to tackle the situation. This system changed the mode of education and had various problems to point out. Thus the present study discussed the problems and challenges faced by parents and children with this new norm.

Keywords: Covid19, Education system, online, challenges.

### Introduction:

COVID-19 has a devastating effect on the world. The outbreak of the coronavirus in China increased fear in the world economy, and an immediate lockdown was initiated to control the spread (Onyeaka et al, 2021). In India first lockdown was followed on 23 March 2020, and the sudden shutdown of all the institutions. Schools were closed all over India to shield the coming generation, and social distancing and quarantine norms were also implemented (Aleta et al, 2020; Kaur et al, 2020). According to UNESCO, the coronavirus outbreak has impacted education worldwide, and in 185 countries, schools and colleges were shut down. With this, 1542412000 learners were affected, which constituted 89.4% of total enrolled learners (Marinoni et al, 2020)

The government opted for an online education system rather than an offline one to protect the children and control the COVID-19 virus. It was a sudden change in the ongoing offline system of schools (Rashid and Yadav, 2020). As no one was prepared for such a situation and as skilled to follow the online teaching method. Roughly in April 2020, the government announced an online mode of education for all school-going children (Kundu and Bej, 2021). However, it is difficult for those students who were just enrolled in their pre-kg classes and the meaning of school still needs nurturing in their daily routine. It became a tough time

**Comment [IPAS1]:** The abstract offers a satisfactory summary of the study; nonetheless, there is need for enhancement. To enhance reader engagement, it is recommended to commence the study by providing a summary of the research purpose or hypothesis. Furthermore, it is suggested that the abstract should provide a more precise delineation of the principal findings or results obtained from the study.

**Comment [IPAS2]:** The introduction presents a comprehensive overview of the influence of the COVID-19 pandemic on the field of education, as well as the subsequent transition to remote learning. Nevertheless, there exist places that could be enhanced. To enhance the clarity and specificity of the study, it is recommended to provide a more focused definition of the research problem or research questions. Moreover, it is recommended that the introduction incorporates a greater number of contemporary and pertinent references in order to underscore the current and noteworthy nature of the research.

for both the parents and the teachers, as teachers became a double burden because they had to take their classes and provide education to their children (Tadesse and Muluye, 2020)

It had become a vicious cycle, and most of the time was spent on technological gadgets. The demand for mobile phones and internet connectivity increased. For children's education, dependency on technology has increased, which has both positive and negative consequences (Akram and Kumar, 2017). On one side, the small children who had just started their schooling became dependent on technology, especially mobiles. At an early age, mobiles became a gadget to socialize them. The school concept shifted to technology, and school socialization also got a setback. It was difficult for tiny children to understand the concept of the teacher on the phone, and learning also became difficult for them. In the young generation, technology increased their social media skills to increase their potential.

The present study was conducted in Punjab to examine the impact of online education on children in rural settings.

#### **Data and Methods:**

For the present paper, data was collected from Bhalaiana village of Bathinda district as official training. A survey was conducted in 100 households on a random basis. Data was gathered on school-going children, their educational background, types of schools, mode of learning, and problems faced during online education. The impact on their socialization, parents' problems with online education, and teacher behavior. A semi-structured interview schedule was prepared to deal with these issues. Open-ended questions about difficulties faced during lockdown to tackle children and their education were asked—difficulties in providing them education and any shifts in school due to increased burden. For the data collection, the first initial listing was done with the help of the Sarpanch of the village. Further, with the help of Asha workers, village households were visited that had school-going children. The study found that 199 children were getting an education online.

#### **Results and Discussion**

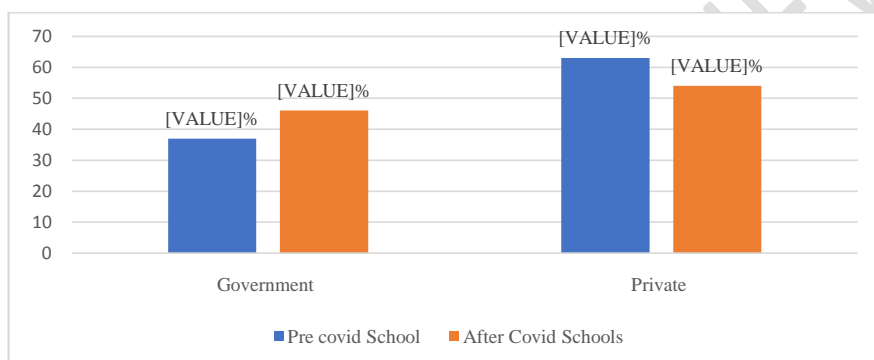
In our 100 sampled households, in total, 199 school-going children, 107 were boys, and 92 were school-going girls. It was found that after COVID, 196 children were getting education through the online method. It was found that three school-going boys left school due to money problems. Another issue found was that the mother was a widow and working as a laborer so she could not afford a mobile phone. Thus, the online mode of education became

**Comment [IPAS3]:** The research method section provides a broad overview of the data collection procedure; nevertheless, there are some areas that might be enhanced. First and foremost, there is a lack of clarification surrounding the sampling methodology employed in the study. The explanation of the sample approach could be expanded to provide a more account of the rationale behind selecting Bhalaiana village in Bathinda district and the specific methodology employed to choose the 100 families. Furthermore, it is vital for the technique to explicitly outline the specific age range and grade levels of the children encompassed within the study.

costly for the laborer families. Of 100 households, 42 belonged to the general caste, 44 households had S.C. population, and 14 had OBC caste. In the case of occupation, the General caste had farming as the main occupation while the S.C caste more or less worked as daily paid labor.

The first question was asked about which schools children were enrolled in before and after the COVID situation. The study found a shift from private schools to government schools after COVID-19. Figure 1. shows that in a pre-covid situation, only 37% of household children were in a government school.

Figure 1. The shift of Schools in Households after COVID-19.



It showed that before lockdown in the pre-COVID situation, parents could send their children to a private school in 63% of households. However, the situation changed due to the lockdown and shutdown of all work as admission to government schools rose almost 9% after COVID-19. On a gender basis, boys or girls shifted mainly from private to government schools. It is visible in Table 1. Boys shifted more as 9% and girls 7.5% cases.

Table 1. Shift in schools (Boys and Girls) due to Covid Situation.

Boys in School (N=107)	Pre covid (%)	After Covid (%)
Government	48.5	57.9
Private	51.5	42.0
Girls in School (N=92)	Pre Covid	After Covid
Government	48.9	56.5
Private	51.1	43.5

The finding suggested that out of 107 boys, 51.5% had enrollment in private schools than in government schools. In the case of girls, the private school still has a significant 51.1% enrollment. However, the covid changed the whole scenario; students shifted from private to government schools. In the case of boys, from 48.5 percent to 57.9 had increased enrollment in government schools. Similarly, in the case of girls, 48.9 percent to 56.5 percent increased. Other than that, dropout cases became visible concerning boys, as three boys dropped out of school due to economic reasons.

A further reason for the shift from private to government school was asked of the respective parents; it showed a clear image of fee structure and other expenditures during COVID (table 2)

Table 2. Reason for Shift from Private Schools to Government Schools

Reason of Shift	Male	Female
Fee Structure and van	4	2
Fee	3	3
Fee, van and other expenditure	3	2
<b>Grand Total</b>	<b>10</b>	<b>7</b>

In total, 17 children shifted to government schools from private ones, and three boys dropped out during the COVID time. When the question was asked about the reason for the shift, parents emphasized the fee structure of private schools during the lockdown and shut down of their work. In the majority, all parents were from semi-skilled jobs. 1 father was a painter, 1 father had a sweetshop, one was a potter maker, 3 were tailors, and 4 were non-agricultural laborers. The sudden lockdown means shutting down all the work, which increases unemployment and economic crunch. Non-availability of economic resources, parents shifted their children to government schools. Ratan Lal emphasizes that

*Earlier, my son was in a private school, and my daughter was also. However, the sudden shutdown was also a hamper to my work. I was a painter, and the lockdown increased unemployment. As a result, I stayed at home for more than six months, and it became difficult to pay school fees and other expenditures. So, after the lockdown, I enrolled both my children in village government schools.*

Similar issues were faced by other respondents. Undoubtedly, fees and other expenditures remained the leading cause of the shift to government schools. However, without work,

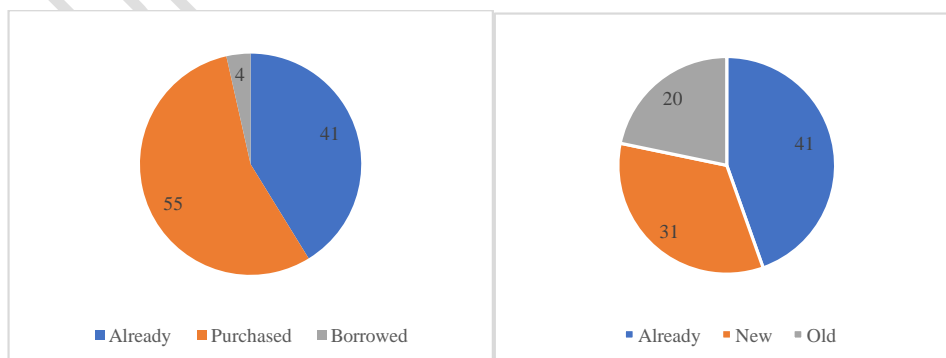
parents had no source of income and no money to spend on their children's education. At the micro-level, unemployment during the COVID-19 time caused the shift.

Similarly, the question was asked to the mother of dropout children. As Sita Devi mentioned that

*She was a widow and worked in brick killing near her village. During COVID, the shutdown of work for more than six months caused debt in the family. Her husband was dead more than two years, and she had no other family members to support her. Her two sons were in ninth class, and her third son was in fourth class. Though the study was free of cost in school, during COVID online class system required a mobile phone, which was out of their range. Therefore, she could not afford to buy a mobile phone and expenditure on the internet. So, the leading cause of dropout was the shutdown of work, and the non-availability of economic funds caused dropout.*

The study also discussed the problems and issues faced during online classes. Questions were asked to know how parents tackled the situation during the lockdown. The first question was asked for the online classes did they purchase mobile/laptops for study purposes? It was found in figure 2 that 41 households already had a smartphone.

Figure 2. Purchase & borrow of mobile phone. Figure 3. Purchase of Old & New Mobile Phones



On the other side, 55 percent of households purchased new mobile phones for online classes. In 4 household cases, a phone was borrowed from the neighborhood for online classes. The question was also asked about the purchase of the phone. 42 households mentioned that they purchased new phones, while 13 households purchased old ones to provide online education (figure 3). It increased the extra burden on the families, especially from labor and scheduled caste, to purchase mobile phones for children's education. Our respondent Sarabjit mentioned that

She was a domestic helper in village houses and earned approximately 5500/- per month. Her husband was an agricultural laborer and earned between 7000 to 8000/- monthly. Sarabjit did not have any work during the lockdown while her husband worked in the field. They had two school-going children and were getting an education from a government school. However, the online education system increased an extra burden on the family. Sarabjit borrowed money from her earlier workplace and was able to purchase a smartphone worth rupees 5000/- for her children's education. However, it became difficult for them because they had to recharge their phone monthly as two children took classes every day.

However, the other side had handsome earnings from their job and had operational land. Purchasing a phone and paying school fees was not a burden. In the case of Avatar Singh

He was an MPH in the PHC of the village earned monthly 50000/- and had 7 acres of land for cultivation. He had two children and got his education from a convent school in a nearby town. He was paying almost 60000 fees during the lockdown and purchased two phones worth rupees 22000/- per smartphone. Other than that, he was sending his children on extra tuition. He mentioned that the phone was necessary because of the lockdown, and I had money to purchase it. It was all right.

So COVID directly impacted the lower income group families basically from the labor class. Other than that, we asked to know who was using the phone as a purchased phone used by only males or females.

Table 3. Mobile phone used by Male and Female

Mobile used by	Percentage
Male	31
Female	8
Both	61
<b>Grand Total</b>	<b>100</b>

In the survey, we found that 61% of both male and female cases were using mobile to get online education. So, the study result showed no gender bias as earlier visible, and girls had less educational opportunities. Another hand, our study found a significant change in both males and females getting an equal education. No doubt 6 households found that the son was in a private school and girls in a government school before COVID-19. However, during COVID, boys shifted to government schools due to economic reasons. So, gender bias remained less visible in our study.

The next part of our study focused on the positive and negative impact of the online education system on children.

An online education system was introduced during lockdown time in 2020, and almost for two years, children followed the online mode of education, even after the relaxation of lockdown rules. There was no vaccination available for school-going children to curb the covid spread.

We asked questions on satisfaction related to the online mode of education with three Likert parameters.

The questions were asked parents about satisfaction with the online mode of education.

Table 4. Online mode of Education and Parental satisfaction.

<b>Online Education System</b>	<b>Not Satisfied</b>	<b>Satisfied</b>	<b>Highly Satisfied</b>
Do you feel the online mode of education is effective	<b>35</b>	<b>52</b>	<b>12</b>
Are you comfortable with the online mode of education	<b>51</b>	<b>39</b>	<b>10</b>
Are you happy with your children's performance in the online mode	<b>48</b>	<b>42</b>	<b>10</b>
Are you happy with the online mode of the education system	<b>85</b>	<b>15</b>	<b>0</b>
Happy with the offline method	<b>4</b>	<b>44</b>	<b>52</b>
Are the teachers easily accessible for students who may need extra	<b>6</b>	<b>56</b>	<b>48</b>

help			
Are you satisfied with the teacher's behavior and communication with you	8	53	39

We asked questions about how they feel about the online mode of education in which both open-ended and close-ended discussions were introduced to the respondents. We asked the first question on whether they feel online education is effective. We found that 35 percent of respondents mentioned not being satisfied with the online mode; on the contrary, 52 percent of respondents mentioned about satisfied, and only 14 were highly satisfied with the online mode of education. When we asked about their views on the online mode of education. Rani mentioned that

Due to an emergency, we could not send our children to school. So, whatever is suggested by the government, we are following. It is for the safety of the children, but personally, it is not that effective. Despite that, teachers are making their best efforts.

Similarly, the question was asked about the comfortability of the online education mode; the highest 51 percent of respondents were not satisfied with the online mode of education. The main point was that their children sometimes faced internet connectivity issues and difficulty understanding the class. In addition, all day children have to sit in front of the camera, which is also harmful. Furthermore, they have more burden of classes because there is no timing of classes and no schedule.

Moreover, the question related to children's performance was asked, and 48 percent of respondents were not satisfied with the children's performance, no doubt 42 percent of respondents were satisfied, and 10 were highly satisfied, but still, parents had many complaints about online mode. Although those children were small and parents had to sit with them, those parents had satisfaction. In contrast, adult children did not have much interest in education. After taking online classes, they were not ready to do their homework because it would not check. Due to lack of teacher fear and online mode with physical contact with teachers, children became fearless and devoted less time to education.

Satwinder mentioned that they feared the teacher earlier and were ready to do homework after returning from school, but nowadays, they know that no one will check them. Even if we said something, they said we were taking an online class and feeling exhausted.

Moreover, the teacher will not check their homework which is a drawback of online education. Thus 85% of respondents were not satisfied with the online mode of education. However, 96% of respondents agreed and were ready to send their children to school for offline mode. The main reason is that in online mode, children become fearless and do not pay full attention to their education. Parents also mentioned that children showed no attention towards education. Amarjit mentioned

When children were at school, they feared their teachers and had some curriculum to follow. They were attending classes on their own and even do not follow any curriculum, causing irregularities in the study.

Respondents showed a positive response towards teacher availability on time and ready to help solve the issues.

Table 5. Impact of Online mode of education on children

<b>Online Education System</b>	<b>Yes (%)</b>	<b>No (%)</b>
Do you think it increases the productivity of your child in class	<b>24</b>	<b>76</b>
Did they explore something else than class (YouTube videos, online lectures and also educational apps)	<b>54</b>	<b>46</b>
Is online mode improving the technical skills of your child	<b>14</b>	<b>86</b>
Does online mode become addicted to your children (explain)	<b>56</b>	<b>44</b>
do you want a combination of online and offline mode	<b>12</b>	<b>88</b>

To know the effect of online mode on children, the first question was asked about whether they think online mode increases productivity in the class, as they have other options such as taking videos related to education on YouTube. However, we got a negative response that 76% of respondents mentioned that there was no increase in their productivity but rather faced irritation in their eyes after continuing to watch mobile phones. They became extra occupied with classes and connectivity issues. Even 54% of parents also mentioned that children were overutilizing the phone rather than studying. They watched cartoons, movies and played online games. Other than school apps, children are not following any other educational apps 56% of respondents also complained that online mode becomes addictive to their children. They are watching movies and playing games; they also remain on the phone all the time. Even 88% of respondents were also against the combination of offline and online modes. They wanted to follow offline mode only because it helped their overall development. Thus, the study found that the online mode of education remained less effective in rural areas and not beneficial for the children.

### **Conclusion:**

The present study found that online mode had a negative impact on children and parents. Online mode became addictive and children started watching, songs, movies, and cartoons. On the other hand, it also enhances the extra cost of the internet and burdens families from lower economic strata. However, we found a lower dropout rate and a shift to government schools because education has become a need of the hour. Parents had no option other than online to adopt during the COVID situation. We tried to find that online mode of education can become a future educational model, but surprisingly, it has not shown any positive results. However our study also had limitations because it was conducted in only rural areas, instead, a comparison in rural and urban areas shows more authentic results.

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**Comment [IPAS4]:** The manuscript's conclusion presents a concise overview of the study's findings; nonetheless, there are some areas in which it might be enhanced. First and foremost, there is a need for more clarity in describing the primary discoveries and their implications. Although the detrimental influence on children and parents is acknowledged, it is imperative to delineate the primary obstacles encountered, including those pertaining to online education, reliance on technology, and the financial strain associated with internet expenses. Moreover, the conclusion fails to provide an analysis of the wider ramifications of these findings on education policies and practices. It would be advantageous to propose relevant recommendations or interventions in light of the findings from the research.

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