A Study to Assess Effectiveness of Group Intervention on Parental Knowledge and Attitude Regarding Impact of Online Teaching on Physical, Psychosocial Growth and Development of School Children

Avani Bhange¹, Jinu K. Rajan², Sagar Sonawane³

¹Department of Child Health Nursing, Namco College of Nursing and Research Institute, Nashik, Maharashtra, India, ²Department of Nursing, Malwanchal University, Indore, Madhya Pradesh, India, ³Department of Paediatric, Dr Vasantrao Pawar Medical college Hospital and Research Centre, Nashik, Maharashtra, India

Abstract

Aim: The aim of this study was to assess the effectiveness of group intervention on parental knowledge and attitude regarding the impact of online teaching on physical, psychosocial growth, and development of school children at selected schools in Nasik, Maharashtra.

Materials and Methods: In this study, the research design adopted by the researcher is the pre-experimental research design with one group pre-test and post-test design. The proposed study was carried out at a selected school in Maharashtra. The mixed research approach and both quantitative research approaches used in the study. The sample size comprised approximately 422 Parents of children who attend the online teaching who met the inclusion criteria. The probability and purposive sampling technique has been utilized.

Results: The effectiveness of group intervention on online teaching knowledge was a mean of 6.74 and standard deviation (SD) 3.25 pre-test and mean of 13.26 and SD of 3.22 post-test. The t-test value was 29.24, df = 421, and \( P < 0.00001 \). The results indicate significant efficacy (\( P < 0.05 \)). The group intervention improved attitude toward online teaching: Pre-test mean of 40.28 and SD 13.68 and post-test mean of 59.35 and SD of 22.14. The \( t \)-test value was 15.04, df = 421, and \( P < 0.00001 \). The results indicate significant efficacy (\( P < 0.05 \)). Pre-test and post-test parental attitudes on the effects of online teaching on schoolchildren’s physical, psychological, and development will be significantly effective.

Conclusion: The study’s finding was concluded that after group intervention, most parents had adequate knowledge and positive attitudes about the impact of online teaching on physical growth and psychosocial development of school. The group intervention improves parents’ knowledge and attitudes.

Keywords: Effectiveness, group intervention, knowledge, online learning, online teaching

Introduction

Teaching can be regarded as a science and an art. It stresses the teacher’s artistic and creative ability in establishing a positive learning environment in the classroom for pupils to study art as a medium of expression. It is a science that explains the logical, mechanical, or procedural processes that must be taken to achieve a successful goal[1]. Online teaching is a way to educate individuals using the internet that is through...
online teaching. Individual online conversations, group video calls, and webinars are a few of the potential methods. Online learning is becoming more and more popular in the realm of modern international education, thanks to significant advancements in computer technology and improvements in internet infrastructure.\textsuperscript{[2]}

Working parents benefited greatly from this because it made it easier for them to balance job and school. Many parents had able to juggle education and work due to this. Virtual PTA meetings allowed more parents to attend at lunch. The outbreak showed parents and administrators how easy it was to switch from a location-based to a home-based approach without additional expenditures.\textsuperscript{[3]} According to Pew Research Center statistics from parents of K-12 students, 65% of parents are afraid that their children would fall behind academically as a result of school interruptions and online learning.

The online teaching impacted on children’s development. Children do not acquire the same social benefits from online schooling as they do from interacting with peers or teachers. Families are concerned that youngsters would become socially isolated while learning online. Group projects, presentations, and class debates may be interesting for students. They lose motivation while working alone.

Parents may wonder what effect online education has on their children’s mental well-being. Online learning can isolate children, leading to sadness. Children who build confidence from school may struggle without specific instructor feedback. Children may fear catching COVID-19 and exposing themselves or others. They may have diseased or deceased relatives. Due to COVID-19, several parents have lost their jobs or money, causing stress on the whole family, including children.\textsuperscript{[4]}

Parents struggle to optimize the advantages of internet use while reducing the hazards for young children and teens.\textsuperscript{[5]} About 60% of parents worry about their kids’ ability to keep up social relationships. About 59% of parents are concerned about the emotional health of their kids.\textsuperscript{[6]} Parents’ attitudes, knowledge, and experience with the internet have an impact on their impression of virtual classes, which are increasingly the norm. Furthermore, technology is limited to the most vulnerable members of society.\textsuperscript{[7]}

**Objectives**

The objectives of this study were as follows:

- To assess post-intervention parental attitude regarding the impact of online teaching on the physical growth and psychosocial development of school children.
- To assess post-intervention knowledge regarding the impact of online teaching on physical growth and psychosocial development of school children.
- To assess pre-intervention parental attitude regarding the impact of online teaching on physical growth and psychosocial development of school children.
- To provide group intervention regarding physical growth and psychosocial development of school children.
- To assess intervention knowledge regarding the impact of online teaching on physical growth and psychosocial development of school children.
- To assess pre-intervention knowledge regarding the impact of online teaching on physical growth and psychosocial development of school children.

**Hypothesis**

- \(H_0\) - There will be no significant difference in pre-intervention and post-intervention knowledge regarding the impact of online teaching on physical growth and psychosocial development of children at 0.05 level of significance.
- \(H_1\) - There will be a significant difference in pre-intervention and post-intervention knowledge regarding the impact of online teaching on physical growth and psychosocial development of children at 0.05 level of significance.
- \(H_{01}\) - There will be no significant difference in pre-intervention and post-intervention attitude regarding the impact of online teaching on physical growth and psychosocial development of children at 0.05 level of significance.
- \(H_{11}\) - There will be a significant difference in pre-intervention and post-intervention attitude regarding the impact of online teaching on physical growth and psychosocial development of children at 0.05 level of significance.

**Materials and Methods**

**Research design**

In this study, research design adopted by the researcher is the pre-experimental research design with one group pre-test and post-test design approach in which the investigator evaluates the effect group intervention on parental knowledge and attitude regarding the impact of online teaching on physical growth and psychosocial growth and development of school children.

**Research approach**

The researcher adopted the mixed research approach both quantitative research approaches for the study.

**Population**

**Target population**

Parents of children who attend the online teaching.

**Accessible population**

Parents of school children who attend the online teaching at Fravashi Academy school, Nasik District.

**Setting of the study**

The proposed study was carried out at a selected school in Maharashtra.

**Sampling size and technique**

The probability, purposive sampling technique has been utilized to meet criteria for selection and was chosen according to their availability. The sample size comprised approximately 422 parents of children who attend the online teaching.
Variables

**Independent variable**
Group intervention on parents regarding the impact of online teaching.

**Dependent variables**
Knowledge and attitude of parents regarding the impact of online teaching on physical and psychosocial growth and development.

**Extraneous variable**
Is sociodemographic variables.

Criteria for the sample collection

**Inclusion criteria**
The following criteria were included in the study:
- Parents of children from the age group of 6 to 12 years
- Parents of children who are attending online teaching at selected school
- Parents of children who are assisting their children with online teaching
- Parents who are willing to participate in the study and understand English language.

**Exclusion criteria**
The following criteria were excluded from the study:
- Parents who are not willing to participate
- Parents who are absent during the period of data collection.

Results

Table 1 shows that the majority of samples 178 (42%) belong to the 8.1–10 years age group. The majority of samples 235 (56%) were male. Two hundred and sixty-eight (63%) samples belong to 4th and above standard. Samples 250 (59%) were interested in online teaching and 172 (41%) were not interested in online teaching. The samples 193 (46%) having height between 65.1 and 70 cm majorly. Most of the samples 178 (42%) having a weight between 10.1 and 12 kg. The majority of samples 181 (43%) having a body mass index in the overweight category. Samples (parents) 208 (49%) belong to 25.1–30 years of age. The majority of samples of parents 280 (66%) were male and 142 (34%) were female. Most of the samples 257 (61%) were father. The majority of the education status of parents 269 (64%) were graduate. Occupation status of parents 130 (31%) were housewife. The majority of samples 145 (34%) were having income between 21,001 and 30,000 Rs. Majorly 280 (66%) samples did buy new mobile/gazette. Most parents 239 (57%) did not afford online teaching and 183 (43%) did afford online teaching. The majority of samples 198 (47%) somewhat satisfied followed by 123 (29%) did not satisfy with online learning and 101 (24%) satisfied with online teaching is helpful for your child.

Table 2 depicts that, pre-interventional knowledge level, the majority of 316 (75%) of the sample having inadequate knowledge, followed by 98 (23%) having average knowledge level and 8 (2%) having adequate knowledge level regarding the impact of online teaching on physical growth and psychosocial development of school children.

Table 3 depict that, pre-interventional attitude level, the majority of 353 (84%) sample having a negative attitude and
69 (16%) had a positive attitude regarding impact of online teaching on physical growth and psychosocial development of school children.

Table 4 depicts that, post-interventional knowledge level, the majority of 249 (59%) of sample having adequate knowledge level followed by 135 (32%) having average knowledge level and 38 (9%) having inadequate knowledge level regarding the impact of online teaching on physical growth and psychosocial development of school children.

Table 5 depicts that, post-interventional attitude level, majority of 247 (59%) sample having positive attitude and 175 (41%) had negative attitude regarding impact of online teaching on physical growth and psychosocial development of school children.

Table 6 depicts the effectiveness of group intervention on knowledge level regarding the impact of online teaching where findings pre-test shows mean of 6.74 and SD of 3.25, whereas post-test shows mean of 13.26 and SD was of 3.22, respectively. The t-test value was 29.24 with df was 421 and $P < 0.00001$. The results show significant effectiveness ($P < 0.05$).

Table 7 depicts the effectiveness of group intervention on attitude level regarding the impact of online teaching where findings pre-test shows a mean of 40.28 and SD of 13.68, whereas the post-test shows a mean of 59.35 and SD was 22.14, respectively. The t-test value was 15.04 with df was 421 and $P < 0.00001$. The results show significant effectiveness ($P < 0.05$), that is, there will be significant effectiveness between pre-test and post-test parental level of attitude regarding the impact of online teaching on physical, psychosocial growth, and development of school children.

**Discussion**

The researcher found that there had been a noticeable increase in parents’ knowledge and attitude regarding the impact of online instruction on physical and psychological growth and development following the intervention after analyzing and interpreting the sample data. The discussion was solely based on the objectives and hypotheses specified in this present study.

These findings were supported by a study in which it was found that perceived gain and loss were subjective dimensions for parents, and instructor impact and online comments were social factor dimensions. The research looked at how parents felt about online learning for middle school students. Perceived value has the biggest impact on parents’ attitudes toward secondary school pupils using online learning platforms. Perceived risk has a negative and significant effect on parents’ attitudes, whereas perceived usefulness and platform knowledge have a positive and significant impact. In the area of social variables, teachers have a favorable impact on parents’ attitudes, and online comments can control how much perceived value influences parents’ attitudes.\[8\]

A study on the effects of online learning on students’ education and health. The survey found that, despite being a viable alternative to traditional classroom instruction during this difficult pandemic moment, online teaching and learning have a number of drawbacks and negative impacts as well. Hence, while it might be a short-term answer to handling and
fulfilling academic responsibilities, it will never be a long-term alternative for the traditional way of teaching and learning.\(^\text{[9]}\)

Researchers looked at how parents’ attitudes affected their children’s learning effectiveness. When controlling for parents’ age, gender, and how long their children had been learning online, the mediating role of parental self-efficacy demonstrates that (1) parents’ attitudes toward online learning (PATOL) and parents’ self-efficacy (PSE) were both negatively correlated with perceived online learning ineffectiveness (POLI), whereas PATOL was positively correlated with PSE, and (2) the interaction between PATOL and POLI was mediated by PSE. The study also addresses how to help parents support their kids’ at-home, online learning. Schools should provide parents with the appropriate instruction. Parents can receive direction and help on how to set up a setting that is suitable for their children’s online learning.\(^\text{[10]}\)

According to a systematic review conducted on the COVID-19 pandemic’s potential impact on child growth and development. Epidemics can cause parents and kids to experience elevated amounts of stress, which starts with worries about kids getting sick. Only a few of the possible psychological and emotional impacts of pandemics such as COVID-19, H1N1, Ebola, and AIDS include depression in children, anxiety disorders, and post-traumatic stress disorder. Extreme sadness or worry can also strike parents. These results might be linked to an increased chance of toxic stress and negative early experiences. With more adverse events, there is a higher chance of developmental delays and health problems in maturity, such as drug addiction, memory loss, depression, and non-communicable diseases.\(^\text{[11]}\)

Impact of parents’ behaviors during the COVID-19 epidemic on their kids’ distance learning. The results demonstrate that raising children require parents to be very patient and to provide direction. On the other side, facilitatory teachers can collaborate with parents to support students’ learning. On the other hand, instructors can assist both parents and children in online learning by having a discussion with students about how they believe that they should learn together. As a result, getting ready for the COVID-19 pandemic can go smoothly, guaranteeing that the outbreak won’t interfere with students’ ability to learn.\(^\text{[12]}\)

**Conclusion**

After group intervention, most parents had adequate knowledge and positive attitudes about the impact of online teaching on the physical growth and psychosocial development of school. There was inadequate knowledge and negative attitude before the intervention. Parental knowledge and attitude improve after the group intervention.

**Conflicts of Interest**

None.

**Funding**

None.

**References**


*How to cite this article:* Bhange A, Rajan JK, Sonawane S. A Study to Asses Effectiveness of Group Intervention on Parental Knowledge and Attitude Regarding Impact of Online Teaching on Physical, Psychosocial Growth, and Development of School Children. Int J Nurs Med Invest 2023;8(3):50-54.