Perception of E-Learning among Physiotherapy Students

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ABSTRACT

The COVID-19 pandemic has brought about a sudden drastic change in the teaching learning patterns globally. Educational institutes have shifted from the traditional classroom teaching to virtual classrooms. This transition is the need of the hour. It requires technical up gradation as well as better communication skills because the teacher and student are only interacting through a virtual platform. There are many difficulties that both teacher and students face during online teaching learning process. In this study we have to understand the perception tried of physiotherapy students towards E Learning. From the data received and analysed it was concluded that the physiotherapy students prefer traditional classroom teaching as it helps develop better hands on skills.

Keywords: E-Learning, Physiotherapy Students, COVID-19 pandemic

INTRODUCTION

The world witnessed the outbreak of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) recently. It has affected all the nations of the world and brought life to a standstill. The World Health Organization declared it as a pandemic on 11th March 2020⁽¹⁾. In order to ensure the safety of their citizens several governments adopted measures such as social distancing, imposing travel restrictions and lockdown^(2,3). Though life came to a standstill educational institutions had to continue operations. This had a great impact on the education system in

developing countries like India where the system traditional of education is predominant. The learners and teachers had to rapidly shift from face to face teaching learning to an online mode of education. Many considered this as a blessing in disguise. Several creative solutions emerged to facilitate the teaching learning process. The education sector in India was revamped and digitisation in the field of education took place with full potential as it was the need of the hour ⁽⁴⁾.

E learning emerged as the new method of imparting education. It can be defined as the use of various technological tools that are either Web based, Web distributed or Web capable for the purposes education⁽⁵⁾. There are of multiple advantages of E learning. It allows students to acquire knowledge and skills without having to be physically present at universities. This also reduces the burden on the universities in terms of providing necessities⁽⁶⁾. infrastructure and other Though E learning has several advantages it also poses many challenges to both teachers and learners. They need to be updated with the technological advances. Students need to be self-motivated to read the study materials provided in the learning management system, participate in discussions, complete assignments $etc^{(7)}$. and upload The coursework for Physiotherapy requires theoretical knowledge and hands on practical skills training. In the module of E learning the component of supervised

practical skills development is compromised.

Our institute incorporated various techniques of teaching learning during the pandemic situation. As there was no standard protocol in existence to face such a situation, we conducted studies which will help in evidence based practice in order to ensure that our students attain quality education^(8,9,10,11). Thus, this study was conducted to understand the perception of E learning among Physiotherapy students.

METHODOLOGY

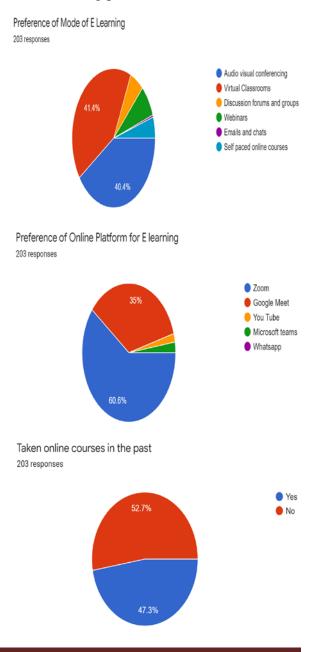
The study design was Survey. An online survey was conducted using a Google form. The Google form was circulated among students enrolled in undergraduate and post graduate Physiotherapy programs in Maharashtra. An informed consent was obtained from the participants before they started answering the questions in the form. The form consisted of questions pertaining to several aspects of the new online teaching learning mode. We included questions to obtain data about the students' perception to E Learning based on factors such as availability of technical requirements, comfort in using gadgets for prolonged hours, ease of understanding the lecture content, distractions during online classes and advantages and disadvantages of E learning. The data thus obtained was statistically analysed

Data Analysis

The data obtained from the duly filled questionnaires was statistically analysed. Total numbers of responses received were203.

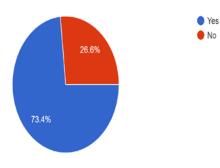
The results of the study have revealed several aspects of perception from the viewpoint of Physiotherapy students. Majority of the students were in the age group of 18 to 21 years. Of the total number of responses received; majority (28.6%) from third year Bachelor were of Physiotherapy students. The respondents have shown clear preferences in certain domains while marginal difference of choice exists in other domains. Most of the

participants have opted for virtual classrooms and Zoom as the preferred platform for E learning. Many students had taken online courses in the past and majority of them were equipped with the technical paraphernalia for E learning. Despite this, greater proportion of students were uncomfortable spending long hours using devices. Also, maximum students have shown a non-preference for E learning. The only major advantage of E learning that the students perceived was the ability to remain in a comfortable environment while learning via the online mode. The major difficulty encountered by the students was understanding practical demonstrations.



203 responses

Possess all technology, software and applications required 203 responses



Are you comfortable spending several hours on laptop, mobile phone or tablet 203 responses

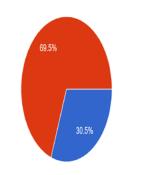
Yes

No 🔴

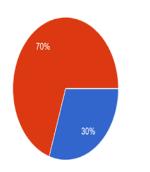
Yes 🔴 No

Yes

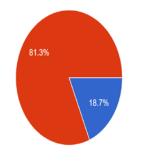
🔴 No



Do you enjoy E- learning 203 responses

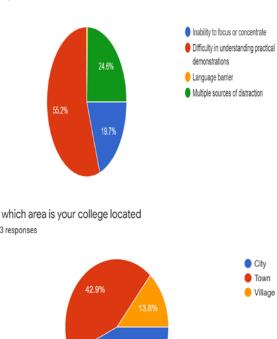


Do you prefer E- learning compared to classroom learning 203 responses

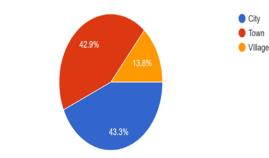


203 responses Being in a comfortable environment Time saving Cost effective 25.19 Repeatability of content 48.8%

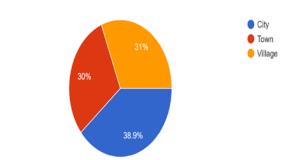
Disadvantages of E learning



In which area is your college located 203 responses



In which area is your home located 203 responses



Advantages of E learning

DISCUSSION

The online mode of teaching learning is novel in the case of medical education. Besides, the transition from offline to an online mode was sudden. As students and teachers were coping up with this unexpected change, they hardly had enough time to acclimatize themselves to this new mode. Also not all were equipped with the technical paraphernalia required to effectively deliver the content via online mode.

Thus we conducted this study in order to understand the perception of physiotherapy students towards E learning. The results of the study has brought forth several important revelations the implications of which can be put to use for the enhancement of knowledge deliverance.

In order to facilitate effective online learning it is important to ensure social and cognitive presence as well ^(12,13). This explains the preference of greater proportion of students for virtual classrooms and audio visual conferencing. A common difficulty experienced by students and teachers in the online mode is the lack of social presence ⁽¹²⁾. The platform of Zoom is extremely user friendly and allows social presence which is the ability to express themselves socially and emotionally as real human beings. Thus students prefer the Zoom platform for online classes.

As physiotherapy is a health science course, the students need to have better hands on practical skills training which will enable them to apply diagnostic tests and therapeutic manoeuvres effectively on patients⁽¹⁴⁾. The lack of human touch and interaction also makes the course module uninteresting, so they do not enjoy E learning. Thus, the participants of this study have demonstrated a non preference for E learning.

Though the students have adopted to the online mode, they are not as gadget friendly and not comfortable spending long hours on mobile phones, tablets or computers They reported difficulties with installation and use of the supporting software as they lacked advanced computer skills ⁽¹⁵⁾. However, the transition from traditional teaching learning to an interface based system is an evolving practice. Several mobile and computer applications are being developed making online learning more user friendly. Another disadvantage of E learning identified in our study was that the students had to motivate themselves and incorporate time management strategies in order to ensure effective learning. The primary cause for this could be the presence of multiple sources of distraction in the environment from where they attend their online classes⁽¹⁶⁾.

E-learning also has certain advantages as it is time saving, economical, offers repeatability of content and provides the students with flexibility and reduces their dependence on faculties. Students also felt that they could continue learning in their comfortable environment ⁽⁶⁾.

As greater proportion of the participants of our study were located in towns, they had cities and good infrastructure. resources and internet connectivity. There is a scope for similar studies to be conducted in rural areas as well.

CONLUSION

Persistence of the current pandemic situation along with the restrictions imposed by government bodies will encourage the online mode of teaching and learning. Though it has several advantages, the students studying the subject of clear Physiotherapy have shown а preference for traditional mode of learning. Thus, we can employ blended learning methods to overcome the problems faced by the students in an online mode of learning.

Suggestions for Further Study

Similar studies can be conducted in students pursuing other faculties as well. Researchers can also study the problems encountered by students residing in rural areas as it will help development of technology to cater to their needs.

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