



EFFECTIVENESS OF ONLINE CLASSROOM LEARNING VS ONLINE LIVE CONSULTATION-BASED LEARNING IN DERMATOLOGY DURING COVID -19 PHASE: A LIKERT SCALE AND MCQS BASED GOOGLE FORM STUDY

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Abstract

Dermatology, being an inherently visual specialty, probably is more amenable to online learning as compared to other specialties. We describe our experience and the student and faculty feedback after an online Dermatology teaching module for undergraduate medical students, which was created in lieu of traditional teaching, due to the restrictions imposed by the pandemic. This study puts to find the student's perceptions and the impact of the program on the learning of students to be beneficial to the faculty in the future. The primary objective is to evaluate the perception of the students and teachers towards online teaching. These condary objective is to evaluate the performance of students.

Keywords: Online classroom, online live consultation, Likert scale, MCQ

Introduction

Teaching in Dermatology is not easy especially in covid situations to MBBS students. The COVID-19 pandemic has had a significant impact on all aspects of normal life. Teaching and learning, at all levels have also been affected, including clinical teaching in medical schools. Direct patient interaction, especially in groups, in out-patient departments or wards, is difficult. To add to this, patients have also reduced visits for non emergency reasons. Institutes have adapted to the changed circumstances by increasing the use of online learning. Online education has its own limitations, especially in medical education, more so in the context of clinical rotations. The Corona pandemic called as the covid 19 pandemics by the WHO has gripped the world and the tentacles are spreading^[1]. Perhaps this pandemic has given us a suitable platform to scratch our brains and think what is happening in the Medical School? Teaching in Medical education especially the theoretical part was done by taking traditional lectures in classrooms^[3-6]. A large number of people can be trained at a single point in time. This is a boon especially in our country where Medical faculties are not easily available^[7,8,9]. But we are so much used to this system that we are feeling troubled even by the thought of bringing a change^[10]. In desperate times the need of the hour is taking desperate actions. It is rightly said that necessity is the mother of all inventions. This study puts to find the student's perceptions and the impact of the programme on the learning of students to be beneficial to the faculty in the future. The primary objective is to evaluate the perception of the students and teachers

towards online teaching. The secondary objective is to evaluate the performance of students.

Aims and Objectives

To study the effectiveness of online learning implemented in the Department of Dermatology.

Materials and Methods

This study was done at Maheshwara Medical College and Hospital.

This study was done in 146 students.

They were divided into 2 groups. Each group had 73 students. 73 students were made to undergo live classroom online based teaching. The teachers would take the class and online coverage of the class was broadcasted to the students.

The other 73 were made to watch the online live consultation of the patients and then the explanation was done by the doctor live.

The perception scale which was prepared was sent to the students via google forms after 6 such sessions. On the next day the MCQ test was organized and the scores were collected.

Once the college started one more MCQ test was organized and the scores were collected and reported.

Results

Table 1: Independent T Test to Compare between the Two Groups

	Group	N	Mean	Std. Deviation	P Value
Perception	Classroom	73	36.12	5.1	<0.001
	Patient consultation	73	46.32	2.43	
MCQ	Classroom	73	4.98	1.208	<0.001
	Patient consultation	73	7.78	0.075	
MCQ-After	Classroom	73	3.64	1.68	<0.001
	Patient consultation	73	7.48	0.62	

Table 2: Paired T Test for Comparison of the Before and After Values in Each Group Separately

Group		N	Mean	Std. Deviation	P Value
Classroom	MCQ	73	4.98	1.22	<0.001
	MCQ-After	73	7.78	0.693	
Patient consultation	MCQ	73	3.64	0.075	<0.001
	MCQ-After	73	7.48	0.621	

Discussion

Comparison of the PERCEPTION between the two groups shows that PERCEPTION is higher in online consultation-based learning group is statistically significant with a p value of <0.001. Comparison of the MCQ between the two groups shows that MCQ is higher online consultation-based learning group is statistically significant with a p value of <0.001. Comparison of the MCQ-AFTER between the two groups shows that MCQ-AFTER is higher in online consultation-based learning group is statistically significant with a p value of <0.001. Comparison of the MCQ DIFFERENCE between the two groups shows that MCQ DIFFERENCE is higher in TRADITIONAL group is statistically non-significant with a p value of 0.424.

Online classroom, on comparison of the mean values of MCQ and MCQ-AFTER the mean values of MCQ is higher and is statistically significant with a p value of <0.001. Online clinical consultation, on comparison of the mean values of MCQ and MCQ-AFTER the mean values of MCQ is higher and is statistically significant with a p value of <0.001.

This lock-down when announced last month halted all forms of academics that were happening in

the nation. This condition was never expected and perhaps the teaching fraternity was never exposed to such conditions. But since everything happened in a flash there was no scope for planning. Everyone in academics was involved to come up with ways to handle the situation. And the faculty with their thinking caps on, against all odds, was able to come up with the solution of online teaching through an interface called a Google meet. Now since this mode of teaching is taking place in the college, it is the time to understand the student's perceptions and the actual effectiveness of the programme.

Conclusion

The online consultation-based teaching is far superior when compared to online classroom-based teaching. This study is intended to be very useful to academicians who teach Dermatology in Medical Schools.

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