

## *Original Research*

### **A Study about the perception of 1<sup>ST</sup> MBBS students on traditional and technology based teaching Methods**

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#### **ABSTRACT:**

**Background:** The most commonly used methods in delivery of a lectures is chalk board teaching. There has been an increased trend in use of power point presentations in the recent past, which is now one of the most popular methods of delivering the lectures using electronic devices. In medical colleges chalk board teaching and Powerpoint based lectures are being used extensively and there is also a debate wherein the teaching faculty are divided in their opinion regarding the superiority of traditional chalk and talk method and powerpoint based lectures. **Objectives:** To estimate the preferences of 1st year MBBS between traditional chalk and talk lectures and powerpoint based lectures. To assess the student perceptions about traditional chalk and talk lectures and powerpoint based lectures. **Methods:** A cross sectional study was carried out among 130 first year medical students belonging to SSMC, Tumakuru, Karnataka. A self structured questionnaire was administered to the study population and preferences of the students were estimated in percentage. **Result:** 61.53% (80) of the students preferred the traditional chalk and talk method. 10.76% (14) of the students preferred powerpoint based lectures as a mode of teaching method citing that this technique offers them better quality of diagrams, pictures and sequence of images. 27.69% (36) of students preferred the use of both the methods in the lecture wherein they feel that usage of black board to explain the key concept along with powerpoint based lectures as a better method of teaching. **Conclusion:** The 1st year MBBS who formed our study population prefer the use of chalk and talk methods of delivering of lectures over powerpoint based lectures. Student preferences can vary in their opinion regarding the choice of presentation of a lecture class.

**Keywords:** Study of Perception, Medical Students, Teaching Methods, powerpoint

Received: 22 January, 2021

Accepted: 28 February, 2021

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**This article may be cited as:** MK Arifuddin, Ahmed MV. A Study about the perception of 1ST MBBS students on traditional and technology based teaching Methods. J Adv Med Dent Scie Res 2021;9(3):186-188.

#### **INTRODUCTION**

The origin of teaching by using lectures can be traced back to 5th century BC among Greeks [1]. Among the academicians, there is another school of thought who considers small group teaching as a better method of learning [2].

Black board teaching using talk and talk method is one of the most commonly used methods in lectures in classrooms [3].

Power point presentations are now one of the most extensively used method of delivering the lectures by using electronic devices [4].

In the classrooms the PowerPoint presentation is very easy to be used [5]. A web based data suggests that around the globe, there are around 20-30 million

PowerPoint based lectures/presentations are given each day.

In medical institutions blackboard teaching and PowerPoint based lectures are being used and there is always a difference of opinion among the teaching faculty regarding the superiority of traditional blackboard method and PowerPoint based lectures [6]. Hence this study was done among 1<sup>st</sup> year MBBS students belonging to 2015-16 batch of Sri Siddhartha Medical College to understand their preferences and choice between traditional blackboard method of teaching and PowerPoint based lectures.

## OBJECTIVES

To find out the preferences of 1<sup>st</sup> year MBBS students between traditional blackboard method of teaching and PowerPoint based lectures to assess the perceptions among the 1<sup>st</sup> MBBS students about traditional way of teaching and PowerPoint based lectures

## MATERIALS AND METHODS

A cross sectional study was carried out among 130 1<sup>st</sup> MBBS of 2015-16 batch belonging to SSMC, Tumakuru, Karnataka. Institutional ethical committee approval was taken for the conduct of the study. Informed consent was taken from all the study participants after explaining the need for the study in detail in their own understandable language. A self-structured questionnaire was administered to the study population and choice of the students was calculated in percentage. The perceptions of the students were recorded along with the questionnaire about the reason for their choice among the the traditional and PowerPoint based method of teaching. Confidentiality of the study and individual data was maintained and the recorded responses were analyzed using Microsoft excel and Epi Info 7.

## RESULTS

**Table-1: Gender distribution of study population**

Sex	Frequency	Percentage
Female	70	53.80
Male	60	46.20

**Table-2: Preferences for each teaching method**

Lecture method	Frequency	Percentage
Chalk and talk lectures	80	61.53
PPT-based lectures	14	10.76
Usage of Both	36	27.69

## DISCUSSION

In our present study 61.53% (80) of the students chose the traditional teaching method over PowerPoint based lectures. The results of our present study are comparable to another study done by Novelli.E.L and et al. wherein majority of the students favored black board teaching [7]. The students who preferred traditional blackboard method of teaching stated that this method allows them enough time to write the necessary important points, draw the diagrams and also feel that the intermittent pauses and breaks during traditional lectures helps them to understand subject in a more better manner . Few students voiced their opinion that their disliking for blackboard teaching is due to bad handwriting which is not encouraging in any manner to the students.

10.76% [14] of the students chose PowerPoint based lectures as a mode of teaching, stating that this technique provides neat visible diagrams, pictures and images. The findings of our present study are in contrast with another study which was done by Vikas Seth and et al. was in 65.33% of students preferred

power point based lectures [8]. The participants of our present study say that their dislike for PowerPoint based lectures is because of the rapid pace of lectures wherein they find it very difficult to take down the necessary points and pictures.

27.69% (36) of students preferred the use of both the teaching methods in the lectures delivery wherein they opine that usage of blackboard to describe the key points along with PowerPoint based lectures as a better mode of learning.

In another study done by Chaudhary R and et al. among 1<sup>st</sup> year MBBS medical students about two different visual aids in Physiology lectures reveals that majority of students (61.1%) preferred the combined teaching aids [9].

In a study done by Baxi.S.N about student perception of teaching aids in a medical college revealed that equal number of students preferred traditional chalk board teaching and PowerPoint based lectures [10].

In a study done by Shallcross.D.E students agreed that the quality of the lecture depends upon the teacher who knows how to make them understand basic concepts in the study material and also lead them gradually towards understanding new and more complex topics [11].

## CONCLUSION

The 1<sup>st</sup> year MBBS students on whom this study was done, have more preference for the traditional blackboard cum chalk and talk mode of lecture classes over lectures delivered by using PowerPoint technology. Student's choices will vary regarding the choice of presentation of a lecture class. The previous literature which is available and the results of our study have varied choice of opinion of students regarding the mode of delivery with each having their own merits and demerits.

## RECOMMENDATIONS

It is the need of the hour that the teachers should receive an effective training in teaching, as a well-trained and an efficient teacher would make use of any available teaching technique and make the teaching learning experience more effective and fruitful for the students.

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