



## COMPARISON OF BLACKBOARD AND POWERPOINT PRESENTATION IN TEACHING PHARMACOLOGY FOR SECOND YEAR MBBS STUDENTS

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### ABSTRACT

**Background:** Lectures are the most common method of teaching in universities throughout the world. In the modern era, PowerPoint presentation is the most commonly used as teaching method. An effective teaching method helps to improve the academic performance of the student and also it is useful to implement the knowledge in the future. **Aims & objectives:** This study was undertaken to determine 2nd-year medical student teaching-aid preferences during classroom in pharmacology. **Material and Methods:** A cross-sectional study was conducted at Pacific Institute of Medical Sciences Udaipur; Total 100 students participated in the study. The study was conducted by asking the students to fill a questionnaire regarding their perception about the blackboard teaching and power point presentation in pharmacology. **Results:** Most of students preferred blackboard teaching as interesting & understanding concept. PPT was preferred by most of students as integrate text with figure in a better way.

### KEYWORDS :

#### INTRODUCTION

Lectures have been the most common form of teaching and learning since ancient times. Each methods have their advantages & disadvantages.[1]. The main aim of the lecture is to make the student understand and retain the concept of the subject taught by the teacher. The quality of the lecture can be enhanced by taking the assistance of audiovisual aids[2]. Many studies are conducted for effectiveness of teaching. In one study students preferred chalk board as effective teaching.[3]. The advantages of chalkboard methods are :no need of electricity; easily dusted & not depend on electricity why PPT methods are dependent on electricity; This method is expensive. The PPT method is preferred it avoids dirty hand writing & dirty blackboard issue[4]. Student become passive learner in PPT method[5]. Teaching and learning are active processes occurring simultaneously on a continuous basis[6]. PowerPoint method is preferred for taking down notes[7]

#### MATERIAL & METHODS

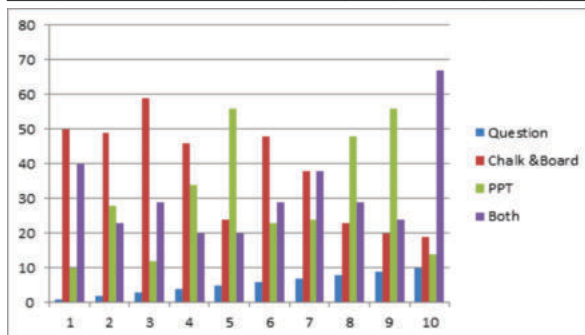
A cross-sectional study was conducted at Pacific Institute of Medical Sciences, Udaipur. The data was obtained from second year students batch 2019 after completion of one year teaching in Pharmacology. Total 100 students participated in the study. Total 10 Questions given regarding preferences of method. Data were analyzed using MS Excel 2007. The survey was analyzed as percentage

#### RESULTS:

**Table-1: Showing The Response Of Students To Various Questionnaire**

S No.	Questionnaire	C&B(%)	PPT(%)	Both (%)	None (%)
1	Which method helped to understand concept?	50	10	40	0
2	Which method is interesting?	49	28	23	0
3	which method gives best Involvement in teaching	59	12	29	0
4	Which method is good to makes notes	46	34	20	0
5	Which method is good to take down diagrams	24	56	20	0
6	which method is best for Able to concentrate	48	23	29	0
7	Which teaching tool according to you has the components "Inspire, influence and inform" in a better way with respect to the subject matter	38	24	38	0

8	Which method was able to integrate text with figure in a better way	23	48	29	0
9	Clarity of new terms and spelling was better in which method?	20	56	24	0
10	Which method should be used?	19	14	67	0



**Fig-1: Shows the response of the students towards the various questions of the questionnaire**

PPT: Power Point Presentation; C&B: Chalk and Board

Based on survey following results are found:

- Total 50% students preferred Chalk & board method to understand concept
- Total 49% students preferred Chalk & board method as interesting compared to PPT as 23%
- 59% students preferred Chalk & board method as best Involvement in teaching
- 56% students preferred PPT method to take diagrams & notes
- 48% students preferred PPT to integrate text with figure in a better way
- 67% students preferred combinations of both methods are used as teaching

#### DISCUSSION:

In our study 67% students preferred combinations of both methods as teaching in integrate way. The advantages of blackboard methods are: Subject can easily understand by students & better awareness for subject. The disadvantages of chalk & board method are: Students can not take diagrams or notes & PPT are better to integrate figure in better way. One study done by Petimani *et al* who found that blackboard still remains the teaching method of choice among the MBBS students [7]. In our study, Total 49% students preferred Chalk & board method as interesting compared to PPT as 23%. The result was similar to one study by Shaheen Shahdad *et al.*, in which 71.3% students preferred Chalk & board method as interesting. [8]. Study conducted by Saritha *et al.* in which 70% students preferred as chalk & board method.[2]. Studies by Banerjee *et al.*, and Novelli and Fernandes.[9,10] In this study, only 39.56% of students preferred PPT teaching method.

**Disadvantages of PPT method:[8]**

- Slides are visually poor and/or boring
- Too much text is put on a slide
- Excessive use of graphics
- Irritating noises and slide transitions
- Inappropriate use of multimedia options

The negative aspects are overcome by appropriate skill in making PPT.

**CONCLUSION:**

Most of students still prefer Chalk & board method as interesting. Teaching can be more effective if both methods are combined.

**REFERENCES**

1. Brown G, Atkins M. Effective Teaching in Higher Education. London, UK: Routledge, 1988.
2. Saritha GA, Ramesh BM, Comparison of Blackboard and PowerPoint Presentation in Teaching Biochemistry for MBBS Students Int J of Bio & ADV Resear (2018) ;09 (01):19-22
3. Deshmukh SB, Vedpathak VL, Jadhav RR, Pise HN. Perceptions amongst Medical Teachers for the use of Audiovisual Aids in Lecture Delivery. *Int J Edu Res Health Sci* 2016; 2(2): 2-8.
4. Seth V, Upadhyaya P, Ahmad M, Moghe V. PowerPoint or chalk and talk: perceptions of medical students versus dental students in a medical college in India. *Adv Med Educ Pract* 2010; 1:11-6.
5. Casanova J, Casanova SL, Casanova SL. Computers as electronic blackboard: remodeling the organic chemistry lecture. *Educom Rev* 1991; 27:31-4.
6. Lalvarmawi F, Ningthoujam S, U, N, Mishra M. Perception of postgraduate students on teaching aids. *J Med Soc* 2013; 27: 36-38
7. Petimani MS, Adake P. Blackboard versus power point presentation: Students opinion in medical education. *Int J Educ Psychol Res* 2015; 1(4): 289-292.
8. Shaheen SH, Chalk & Board or Power Point Presentation – Students View towards Method of Teaching Anatomy, *Sch. J. App. Med. Sci.*, Oct 2017; 5(10E):4155-4158
9. Banerjee I, Jauhari AC, Bista D, Johorey AC, Roy B, Sathian B. Medical students view about the integrated MBBS course: A questionnaire based cross-sectional survey from a medical college of Kathmandu Valley. *Nepal J Epidemiol* 2011; 1:95-100.
10. Novelli EL, Fernandes AA. Students' preferred teaching techniques for biochemistry in biomedicine and medicine courses. *Biochem Mol Biol Educ* 2007; 35:263-6