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**Dr. Anjum Ahmed**  
Assistant Professor, Department of  
OBG, Srinivas Institute of Medical  
College, Mangalore, Karnataka,  
India

## Effectiveness of demonstration of labor using manikin learning over animation learning in students of MBBS Phase-IV

**Dr. Anjum Ahmed**

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### Abstract

The manikin learning is becoming more popular to support learning process of students in Medical colleges by making students to learn. One of the main reasons is the compartmentalised manner in which they are taught by each clinical department at different time, without any knowledge of what is taught by the other departments. Classroom time is spent in discussion, clarification, exercises, or other learning activities to enhance application of knowledge. This study puts in a sincere effort to find the answer of which method is better.

**Keywords:** Manikin, Animation, teaching, MCQ

### Introduction

The manikin learning is becoming more popular to support learning process of students in Medical colleges by making students to learn. One of the main reasons is the compartmentalised manner in which they are taught by each clinical department at different time, without any knowledge of what is taught by the other departments. Classroom time is spent in discussion, clarification, exercises, or other learning activities to enhance application of knowledge. This study puts in a sincere effort to find the answer of which method is better <sup>[1]</sup>. One of the main reasons is the compartmentalised manner in which they are taught by each clinical department at different time, without any knowledge of what is taught by the other departments <sup>[2]</sup>. Classroom time is spent in discussion, clarification, exercises, or other learning activities to enhance application of knowledge <sup>[3]</sup>. This method is implemented in the Medicine, Dental and other Allied courses <sup>[4-8]</sup>. Some cases they recorded that the convention class room was better, in other cases the opposite was quoted as better and there are some studies where they have reported a mixed perception and satisfaction levels. In some studies they even reported that the reverse way of teaching was better perceived which did not reflect in the actual performance of the students. This study puts in a sincere effort to find the answer of which method is better.

### Aims and Objectives

1. To compare the effectiveness of the manikin based learning and animation based learning in teaching labor mechanisms.

### Materials and Methods

Settings-Department of OBG, Srinivas Institute of Medical Sciences

Design – Educational intervention will be done by manikin-based learning for 20 hrs of lecture in one-month duration and performance of the students are compared for two methods along with the perception.

Subject - Students of MBBS Phase -IV will be enrolled into the study after obtaining informed consent excluding the students who don't give consent for the study.

Sample size – 150 students of MBBS phase II who are willing to participate.

Methodology: They will be equally divided into two groups by lottery method. One batch will go for animation based classes and the other will be taught using manikin based teaching. Lecture classes will be taken in six sessions by the researcher. Three sessions are with After every lecture class the MCQ test of the students will be taken. The means of the scores will be noted. The mean of all the scores after all the three sessions will be calculated and reported.

### Corresponding Author:

**Dr. Anjum Ahmed**  
Assistant Professor, Department of  
OBG, Srinivas Institute of Medical  
College, Mangalore, Karnataka,  
India

Sampling technique – All the students of MBBS phase IV who are willing to participate are considered for both the methods of teaching to avoid the bias of the students for the topics.

Data collection - Pre-test and post –test scores are used to assess the students after answering MCQs.

Data analysis - Unpaired and Paired T Test.

**Table 2:** Independent T Test to Compare Pre-Test Scores between the Two Groups

	GROUP	N	Mean	Std. Deviation	P VALUE
PRE-TEST SCORE	Manikin	75	6.97	2.41	NOT Significant
	Animation	75	6.57	2.01	

**Table 3:** Independent T Test to Compare Post-Test Scores between the Two Groups Immediately after the Intervention

	Group	N	Mean	Std. Deviation	P VALUE
MCQ	Manikin	75	8.76	2.65	<0.001
	Animation	75	5.45	2.18	

**Table 4:** Independent T Test to Compare Post-Test Scores between the Two Groups 15 Days after the Intervention

	GROUP	N	Mean	Std. Deviation	P VALUE
MCQ-AFTER	Manikin	75	7.87	2.18	<0.001
	Animation	75	5.34	1.98	

## Discussion

The implications of the study are that it is an analytical in nature and it will compare the effectiveness of two methods of teaching. It will provide orientation and motivation to learn the subject by the students. Students become aware of learning methods which will imply a prior preparation of the student about the subject. Helps the teacher to compare the different method and apply the better one in future teaching learning method. Ultimately contributes towards the future literatures about the experiences of both teacher and students about the teaching learning methods. Since the scores in the present study are also observed to be high after repetition of the exams after a span of fifteen days means that this is an effective way in which the students are going to retain the information also for a long time.

Comparison of the MCQ Pre-Test Score between the two groups shows that DIFFERENCE is higher in Animation group and is statistically non-significant. Comparison of the MCQ between the two groups shows that MCQ is higher in Manikin group and 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 Manikin group and is statistically significant with a p value of <0.001. 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. Manikin group 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.

## Conclusion

The Manikin-based teaching room is perhaps the clear winner.

## References

1. Anja J. Boevé & Rob R. Meijer & Roel J. Bosker & Jorien Vugteveen & Rink Hoekstra & Casper J. Albers. Implementing the alternative: an exploration of study behaviour and student performance. *Higher Education*, 2017; 74:1015-1032.
2. Unal, Z., & Unal, A. Comparison of Student Performance, Student Perception, and Teacher Satisfaction with Traditional versus alternative teaching room Models. *International Journal of Instruction*. 2017;10(4):145-164.
3. Missildine K, Fountain R, Summers L, Gosselin K. Alternative classroom teaching to improve student

performance and satisfaction. *J Nurs Educ*. 2013; 52:597-599.

4. Gubbiyappa KS, Barua A, Das B, Murthy CV, Baloch HZ. Effectiveness of alternative teaching Everywhere as a teaching-learning method for pharmacy students. *Indian J. Pharmacol*. 2016; 48:S41-S46. [CrossRef] [PubMed]
5. Bossaer JB, Panus P, Stewart DW, Hagemeyer NE, George J. Student Performance in a Pharmacotherapy Oncology Module Before and alternative teaching in Classroom. *Am. J. Pharm. Educ*. 2016; 80, 31. [CrossRef] [PubMed]
6. Koo CL, Demps EL, Farris C, Bowman JD, Panahi L, Boyle P. Impact of alternative teaching room Design on Student Performance and Perceptions in a Pharmacotherapy Course. *Am. J. Pharm. Educ*. 2016; 80, 33. [CrossRef] [PubMed]
7. Morton DA, Colbert-Getz J, Measuring the impact of the alternative anatomy classroom: The importance of categorizing an assessment by bloom's taxonomy. *Anat. Sci. Educ*. 2016; 10:170-175. [CrossRef] [PubMed]
8. Presti CR. The alternative Approach in Nursing Education: A Literature Review. *J. Nurs. Educ*. 2016; 55:252-257. [CrossRef] [PubMed]