

ORIGINAL RESEARCH PAPER

General Surgery

EFFECTIVENESS OF INTEGRATED LEARNING OVER REGULAR CLASSROOM LEARNING IN STUDENTS OF MBBS PHASE-II AND III

KEY WORDS:integrated Learning, Class Room Teaching, MCQ.

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IBSTRACT

The Integrated learning is becoming more popular to support learning process of students in professional colleges by asking students to prepare before lectures and actively engaging students during lectures. 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.

INTRODUCTION

The Integrated learning is becoming more popular to support learning process of students in professional colleges by asking students to prepare before lectures and actively engaging students during lectures¹. 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 departments². Classroom time is spent in discussion, clarification, exercises, or other learning activities to enhance application of knowledge3. This method is implemented in the Medicine, Dental and other Allied courses 4-8. 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 Integrated learning teaching was better perceived which did not reflect in the actual perforance of the students^{6.7}. This study puts in a sincere effort to find the answer of which method is better.

AIMS AND OBJECTIVES

 To compare the effectiveness of the Integrated learning classroom and regular classroom learning in teaching surgery

MATERIALS AND METHODS

Settings-Department of Surgery, PES Institute of Medical Sciences and Research, Kuppam.

Design-

Educational intervention will be done by Integrated 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 –III and 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 traditional lecture classes and the other will be taught using Integrated learning teaching. Lecture classes will be taken in six sessions by the researcher. Three sessions are with Integrated learning (topics given prior to the lecture by power point presentations) and three sessions are regular lectures. 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.

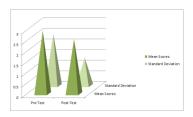
Sampling Technique –

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 -

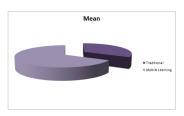
Pre-test and post –test scores are used to assess the students after answering MCQs.

Data analysis - Unpaired and Paired TTest.



PVALUE NOT Significant

Graph 1: INDEPENDENT T TEST TO COMPARE PRE-TEST SCORES BETWEENTHE TWO GROUPS



PVALUE < 0.001

Graph 2: INDEPENDENT T TEST TO COMPARE POST-TEST SCORES BETWEEN THE TWO GROUPS IMMEDIATELY AFTERTHE INTERVENTION

DISCUSSION:

Comparison of the MCQ Pre-Test Score between the two groups shows that DIFFERENCE is higher in TRADITIONAL group and is statistically non significant. Comparison of the MCQ between the two groups shows that MCQ is higher in INTEGRATED LEARNING TEACHING 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 INTEGRATED LEARNING TEACHING 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. INTEGRATED LEARNING TEACHING 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.

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.

CONCLUSION:

The Integrated learning teachingroom teaching is perhaps the clear winner.

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