

# **Clinical Pharmacy Course: Assessment of Case-Based Learning and Lecture Method in Achieving Students' Learning Objectives**

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## **ABSTRACT**

### **Objective**

To assess the effectiveness of case-based learning method used following lecture in achieving students' learning objectives in Clinical Pharmacy course.

### **Method**

This was a pilot study from a group of 4<sup>th</sup> year pharmacy students (N=88) registered in first period of Clinical Pharmacy course for 2011-2012 odd semester. In general, the course's learning objectives were students' abilities to identify drug-related problems and to recommend an appropriate management for solving the problems in clinical case scenario. Lecture and case-based learning method were used to deliver topics such as typhoid, tuberculosis, and diabetes mellitus in order to achieve learning objectives in each topic. To assess students' achievement, we developed a guide that scores their abilities in identifying and resolving the drug-related problems. Content validity of the guide was based on expert judgment achieved in discussion.

### **Result**

The goal was that at least 70% of the students participated in Clinical Pharmacy course would achieve passing score, i.e. 14 of maximum score 25. Using a scoring guide, 85,2% of students (75/88) achieved passing score. Students achieved score 25 were 4,5% (4/88). The lowest score was 4,2, gained by 1 student only. The mean score was 18,6.

### **Conclusion**

Case-based learning and lecture in Clinical Pharmacy course seemed effective in achieving students' learning objectives.

**Keywords:** pharmacy, education, assessment, case-based learning, lecture