Assessment of Academic Databases and Applications Training

Kursat Volkan OZCAN[1], Ilknur BUTUN[2], Mustafa BUBER[3]

Abstract: It can be stated that digital libraries are seen as an alternative of the library which is indispensable to the library of past research. In this context, as theoretical of 4 hours and practical of 4 hours "Academic Databases and Applications" course has been given to the students who have been attending at grade 1 of Gaziosmanpaşa University Medical Faculty. Pre-test and post-test data were analyzed which is applied to the 21 students who participated in training. When the obtained data from applied academic achievement test were examined, it has been seen that academic data base education which is given to students, contribute to the theoretical and practical skills in this area.

Key words: Academic Databases, Applications Training

INTRODUCTION

Being widely used of internet technology in recent years has also affected the choice of access information by researchers. It can be said that digital libraries are seen as an alternative of the library which is indispensable to the library of past research. It is stated that as a result of this change, time and place restrictions have lost importance [1]. It can be reacted in a usual way that library and academic journals have been affected by this change. Effective and efficient teaching is important to use active digital libraries of universities to fulfil their research function [2]. According to the studies, e-journals are known to frequently used in health sciences [3].

The purpose of this research to examine the theoretical and practical skills of students who had training to use digital libraries in the medical faculty. In this context, the following questions were sought.

1. How academic databases, its usage and training have affected achievement of students in this course?

2. What is the relationship between the students theoretical and practical points?

METHOD

Paradigm of this research constitute 39 students who have chosen "Academic Databases and Applications" in the 2014-2015 academic year studying at University College of Medicine in Grade 1. But, 21 students who with perfect attendance or attend success test applied in the process of research have been examined within the scope of the research. Within the scope of Academic Databases and Applications course, PubMed and Web of Science education is given a total of 8 hours as 4 hours theoretical and 4 hours practical. Different search features have been described by instructor during assessment to the medical education article on the theoretical training via computer. After 4 hours of theoretical training, students in the course were asked to use this database application. In the 4-hour application course an application sheet has been given to the students and have been demanded from students to apply a lot of search features in both databases in the application sheet. In the application, it is provided that all students perform operations located in the application sheet.

After training, an application test consists of eight open-ended questions and achievement test consists of nine multiple-choice questions have been done. Since the questions which are used from the academic achievement test have been prepared in parallel with curriculum gains, it has been accepted that it has a content validity. Additionally checking of construct validity has not been done. Achievement test has been evaluated as a total of 9 points that each correct question is scored as "1" score, the wrong question is scored as "0". And also, in the event of realization of the application process located in the application exam, "1" score has been given and "0" score has been

given when the process has not been realized. So practice exam has been valued at a total of 8 points.

RESULTS

Research findings have been presented in line with the scope of research questions.

How academic databases, its usage and training have affected achievement of students in this course?

T test has been applied to determine whether there is a difference between pre-test point and post-test point of the students who have participate in the research. The findings have been given in Table 1.

Table 1. Theoretical pre-test and post-test point of students

Test	N	X	S. s.	t	p
Pre-test	21	4,71	2,261	-2,485	,022
Post-test		5,71	2,125		

In terms of pre- and post-test scores of students, t value= -2.485 which belongs to gap between pre- and post-test scores has been found significant as $p < 0.05$ significance level. When the table 1 has been examined, it has been observed that while pre-test mean score is 4.71, average of post-test is 5.71 at the end of the research. This finding indicate that the students' academic achievement test scores rise at the end of the research.

What kind of relationship is there between the students theoretical and practical points?

Pearson's correlation analysis has been applied to determine whether there is a relationship between posttest theoretical point and application point of the students who participated in the research (Table 2).

Table 2. Relationship between Theoretical and Application Exam Points (N=21)

		Theoretical Exam	Application Exam
Theoretical Exam	r	1	
	p		
Application Exam	r*	,555	1
	p	,009	
	X	5,71	6,86
	S.s.	2,125	1,108

RESULTS AND DISCUSSION

In today's medical education in pre-graduate training period it is known that students are encouraged to scientific research. The importance of using academic database is known in scientific research. In this study, effect of elective Academic Databases and Applications Training which is given students of the Faculty of Medicine, Grade 1 has been examined.

In the study, it is seen that while prior to the application the average of 21 student at the end of 9-question test is 4.71, achievement test average of group has rised to 5.71 at the end of the application. The rise in average achievement test shows that given training affects students' success in academic database in a positive way. When the relationship between the practical and theoretical points were examined, positive correlation was revealed in the exams which were applied at the end of the study. This finding means there is a high correlation between students' practical points and theoretical points.

According to the above results, it can be stated that the academic database training which will be given to 1st grade students of the medical faculty contributes to the theoretical and practical skills in this area. In this area, it can be stated that full experimental researches are needed that the long-term effects of the training which will be given to the working group with broad participation can be observed.

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ABOUT THE AUTHOR

Kursat Volkan Ozcan, Medical Education and Informatics A.D, Medical Faculty, Medical Faculty, Tokat, kursat.volkan@gop.edu.tr

Ilknur Butun, Medical Biochemistry A.D, Medical Faculty, Medical Faculty, Tokat, ilknur.butun@gop.edu.tr

Mustafa Buber, Computer Technology, Doganhisar Vocational School, Selçuk University, Konya, mbuber@selcuk.edu.tr

The paper has been reviewed.