Comparison of student learning and satisfaction in traditional education and CD-based education in Tehran medical sciences university

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Abstract

Background and Purpose of Study:

Knowing about CD-based education outcomes compared to traditional education can help Instructors to use more effective methods for future nursing education Programs. The aim of this study was to compare the effect of CD-based and traditional education on Nursing Students’ Satisfaction.

Methods:

In this quasi-experimental study with two groups, case and control, 38 nursing students who were passing community health nursing course were divided equally into two groups of CD-based education and traditional education by blocking random allocation method. In case group, the intervention consisted of delivering educational material by compact disc during 8 weeks. The other group received educational material by lecturing in the classroom in the same period. In both groups, students’ satisfaction was measured by a rating question questionnaire and students’ learning was measured by final exam score. two groups’ scores were compared by descriptive statistic, Analysis of Covariance (ANCOVA) and non-parametric test.

Findings and Results:

Based on the findings, mean and standard deviation of satisfaction scores in case and control groups sequentially were $M=74.37 \pm 16.31$ and $M=58.74 \pm 15.17$. Further more mean and standard deviation of final exam scores in case and control groups sequentially were $M = 17.18 \pm$
1.65 and M=15.49 ± 1.59. With regards to control total average as an interfering variable; Analysis of Covariance (ANCOVA) test was performed. It represented that CD-based education was more effective than traditional education on Nursing Students’ Satisfaction (P=0.006) and students’ learning (P=0.019). Also Non-parametric test represented normal distribution of samples.

**Conclusions and Recommendations:**

CD-based education seems to be more effective than traditional education on Nursing Students’ Satisfaction and learning. With regard to numerous advantages of modern educational methods like CD-based education method, it is recommended to be used in blended method in the future educational programs.

**Keyword:**

CD-based education, traditional education, students’ learning, students’ satisfaction