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Comparison of professional competency and anxiety of nursing students trained based on two internship models: a comparative study

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Abstract

Background Improving the professional competency of nursing students during the internship is critical. This study aimed to compare the professional competency and anxiety of nursing students trained based on two internship models.

Methods This is a two-group posttest-only quasi-experimental design study. One hundred nursing students who passed internship models A (a previous internship model) and B (an intervention with more educator support and a more planned and programmed process) were randomly enrolled in this study. Internship model groups A and B were conducted for the students in semesters 7 and 8. The outcomes assessed in both groups were "The Competency Inventory for Registered Nurses" and Spielberger "State-Trait Anxiety Inventory". T-test and MANOVA were used to analyze the data.

Results The mean scores of competency were 134.56 (SD = 43.23) and 160.19 (SD = 35.81) for the nursing students in the internship model groups A and B, respectively. The mean scores of nursing students' anxiety were 92.14 (SD = 15.36) and 80.44 (SD = 18.16) in the internship model groups A and B, respectively. MANOVA test showed a significant difference between the groups regarding professional competency (F = 10.34, p = 0.002) and anxiety (F = 11.31, p = 0.001).

Conclusions The internship model group B could improve the professional competency of nursing students to a great extent and they experienced mild anxiety; it is suggested that this intervention should be done for nursing students. Conducting more studies to evaluate the effect of this model on the nursing students' competency and anxiety after graduation and as a novice nurse is suggested.

Keywords Anxiety, Clinical competence, Education, Internship, Students, Nursing

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Author contributions
MR, NP, RD, AP participated in conceptualization of this study. RD participated in data collection. MR and AP conducted the management the data analysis. MSH, ZM, AZ, and MN participated in the intervention management. All authors participated in writing and approving the original draft of the manuscript.

Data availability
The data of this study would be available by email to Masoume Rambod.

Declarations

Ethics approval and consent to participate
Research Ethics Committees of Schools of Nursing and Midwifery, Management and Medical Information Science-Shiraz University of Medical Sciences approved this study (IR.SUMS.NUMIMG.REC.1402.027, approval date: 2023-05-28). Participation/non-participation of this study was voluntary. The permission to apply "The Competency Inventory for Registered Nurses" was obtained from Ming Liu by the fourth author of our study. The questionnaires were anonymous. Our study was conducted in accordance with the Declaration of Helsinki. The study purpose, procedure, probable complications and the ways of compensation, and the person responsible for these possible complications in this study were explained in the consent form. The consent to participate was obtained from the nursing students. All of the nursing students signed the consent form. We confirmed that this consent was informed. The results of this study were reported to Nursing and Midwifery School of SUMS.

Consent for publication
Not applicable.

Competing interests
The authors declare no competing interests.

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