

## The Effect of Education on Nurses' Knowledge Level for Ventrogluteal Site Injection: Pilot Study

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**Abstract :** Introduction and Objective: Safe administration of medicines is one of the main responsibilities of nurses. Intramuscular drug administration is among the most common methods used by nurses among all drug applications. This study was carried out in order to determine the effect of education given on injection in ventrogluteal area on the level of knowledge of nurses on this subject. Methods: The sample of the study consisted of 20 nurses who agreed to participate in the study between 01 October and 31 December 2019. The research is a pretest-posttest comparative, quasi-experimental type pilot study. The nurses were given a 4-hour training prepared on injection into the ventrogluteal area. The training consisted of two hours of theoretical and two hours of laboratory practice. Before the training and 4 weeks after the training, a questionnaire form containing questions about their knowledge and practices regarding the injection of the ventrogluteal region was applied to the nurses. Results: The average age of the nurses is  $26.55 \pm 7.60$ , 35% (n = 7) of them are undergraduate and 30% (n = 6) of them work in intensive care units. Before the training, 35% (n = 7) of the nurses stated that the most frequently used intramuscular injection site was the ventrogluteal area, and 75% (n = 15) stated that the safest area was the rectus femoris muscle. After the training, 55% (n = 11) of the nurses stated that they most frequently used the ventrogluteal area and 100% (n = 20) of them stated that the ventrogluteal area was the safest area. The average score the nurses got from the premises before the training is  $14.15 \pm 6.63$  (min = 0, max = 20), the total score is 184. The average score obtained after the training was determined as  $18.69 \pm 2.35$  (min = 12, max = 20), and the total score was 243. Conclusion: As a result of the research, it was determined that the training given on the injection of ventrogluteal area increased the knowledge level of the nurses. It is recommended to organize in-service trainings for all nurses on the injection of ventrogluteal area.

**Keywords :** safe injection, knowledge level, nurse, intramuscular injection, ventrogluteal area

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