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## Evaluation of nurses' knowledge and behaviors for nanotechnology use in health

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**Objective:** This study was carried out as a descriptive study to evaluate the knowledge and behaviors of nurses for nanotechnology use in health.

**Materials and Methods:** This study was conducted in a university hospital between December 2015 and February 2016. The universe of the research was formed by the nurses working in this university hospital. The sample of the study was determined as 210 nurses with the ability to represent 0.05 error level, 0.08 effect size and 0.95 universe according to the power analysis performed. Nurses were selected by simple random sampling method. The data were collected by the researchers in the form of a questionnaire prepared in the direction of the literature information. Descriptive statistical values were used in the analysis of the data.

**Results:** The mean age of the nurses participating in the study was  $35.66 \pm 6.67$  (min:21- max:54), 88.6% were female, 26.2% were working for 20 years and over, 62.8% graduated from university or had upper education level, 44.3% of them had knowledge about nanotechnology and 65.7% of these nurses was informed about nanotechnology via TV / Internet. 50% of the participants affirmed that nanotechnology was the target, 59.5% said that the use of nanotechnology would improve the quality of life, 50% wanted to work in hospitals where nanotechnology was used, and 43.3% said that the hospitals they were working with were not qualified to use nanotechnology. 48.1% of the nurses stated that nanotechnology would accelerate the diagnosis and treatment of diseases but 52.9% stated that the use of nanotechnology in the diagnosis and treatment process would cause more harm than good. 51.9% of the nurses stated that nanotechnology was not sufficiently interested in nursing, 54.3% said nanotechnology use will bring new roles to nurses, and 63.3% stated that nurses need specialized nurses for the use of nanotechnology in health field.

**Conclusion:** If the use of nanotechnology in the field of health is considered to be an up-to-date method, it has been found that the information about the use of this method by the nurses participating in the research is insufficient. It is recommended that nurses be informed about the positive and negative effects of nanotechnology on long term health and academical nurses should do research with the subject

### Biography

I am Bahar ASLAN. I am from Turkey. I was born in 1990. I graduated from Inonu University Faculty of Health Sciences in 2014. I am a research assistant in Inonu University since 2016. Recently, I have conducted my master thesis in Surgical Diseases Nursing Department.

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