Evaluation of the level of hand hygiene in intensive care units personnel of Mehr Hospital of Mashhad in autumn of 2017

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ABSTRACT

Introduction: Intensive Care units have the highest risk for hospital infections among hospital wards. Studies have shown 60 to 70 percent of hand hygiene compliance in advanced countries and 40% to 50% in Iran. Hand hygiene is the simplest, least costly and most effective method of preventing hospital infections. The aim of this study was to determine hand hygiene compliance in the personnel of Intensive Care units of Mehr Hospital in Mashhad.

Materials and Methods: This was a descriptive cross-sectional study which covered 100 personnel of the Intensive Care Units (Dialysis, ICU, CCU, NICU, Open Heart ICU) in the hospital and was conducted by observing 650 positions created in autumn of 2017. The data gathering tool was a checklist approved by Mashhad University of Medical Sciences. Finally the data were analyzed via SPSS software.

Results: The average age in this group was 28 years and 62% of the personnel were women. NICU with 57.5% and Open Heart ICU with 37.4% had the highest and lowest percentages of hand sanitation, respectively. In these observations the personnel had the highest rate of hygiene hand with 34.5%, after touching the secretion of the patients. In general, the rate of hand hygiene was 47.3% in the Intensive Care Units.

Conclusion: It is suggested that using the high-quality disinfectant solutions, enough advertising about the importance of hand hygiene, more continuous training as well as continuous supervision of head nurses in Intensive Care units can increase hand hygiene compliance.