Evaluation of the Level of Hand Hygiene at Samen Al-aemah Hospital (Chenaran) in 1396

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**ABSTRACT**

**Keywords:** Hand Hygiene, Infection Control, Nursing Staff

**Introduction:** Hands are as one of the main ways of transmission of infections and hand hygiene is one of the most effective preventive measures and control of nosocomial infections. Existence of a uniform method for the measurement of hand hygiene in hospitals could have a major impact on the prevention of infection.

The aim of this study was to determine the level of hand hygiene and the effect of educational interventions on hand hygiene at Samen-Al-aemeh Hospital, Chenaran.

**Materials and Methods:** In this research, data were extracted from the pre-hospital emergency mission forms, which were collected from the EMS stations in Mashhad and suburbs through systematic random sampling. In addition, supplementary information was obtained from the ambulance dispatch cards and emergency communication center forms.

**Results:** In this study, the mean compliance of hand hygiene in five situations was 55.2% in nurses (n=70), 39.4% in physicians (n=15) and 36.6% in help nurses and departmental officers (n=23). Also, the highest rate of hygiene compliance was reported for situations after contact with the patient's secretions (60.66%), and the least compliance was related to the situations before contact (30.66%).

**Conclusion:** According to the results of this study, it is necessary that more trainings be given to improve hand hygiene compliance, some arrangements be made to avoid overwork of personnel, and the equipment required for this health behavior be provided.