The camprison between Triage system and international standards in emergency depart meut

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Abstract

**Background:** This research is a comparative-descriptive study accomplished to examine the triage system in emergency department(ED) and was compared with international standards in the teaching hospitals of Tehran, Iran and Shahid Beheshty medical universities in 1386.

**Materials and methods:** The research samples were all the patients in the ED and their chief complaints weren’t these disorders as follow psychiatric disorders, obstetric disorder, skin disorders, eye emergent disorders, poisoning and burns injury. The gathering data tool was a check list arranged according to quality indicators of Canadian Triage and Acuity Scale(CTAS).

**Results:** The results showed: time to triage was <=10 minutes for %90/8 and triage duration was <= 5 minutes for %89/4. Also the proportion of patients who were examined within CTAS response time objective was %86/7 and %1/3 of patients decided to leave ED without being seen by a physician. Our study confirmed a strong relationship between CTAS acuity level and triage duration, arrival mode, brought by, level of consciousness, severity of pain and hospitalization (p<0.05). Also there was a relationship between triage time and age (p<0.05).

**Conclusion:** According to our result, It wasn’t found any obvious differences between triage system and international standards(time objectives of CTAS) in the EDs of studied hospitals.

**Keywords:** Emergency Department, Triage, Canadian Triage and Acuity Scale