**Considering Causes of Death in the Emergency Department of Firoozgar Hospital: A 5-Year Cross Sectional Study**

Elham khalilifard1\*, Golamreza Masoumi1, Fatemeh mohammadi1, Reza mosaddegh1, Mahdi Rezai1

1. Emergency medicine research team,Iran University of medical sciences, Tehran, Iran.

**\*Corresponding author:** Elham Khalilifard; Emergency medicine research team,Iran University of medical sciences, Tehran, Iran.

Tell: 02122079454 - Email: [drelhamkhalilifard@gmail.com](mailto:drelhamkhalilifard@gmail.com)

**Abstract**

**Introduction:** Studying the causes of mortality plays the most important role in determining and evaluating the health system's effectiveness. Accordingly, this study aimed to identify the causes of death in the emergency department for planning and providing appropriate facilities to reduce mortality rate in patients. **Methods:** This cross-sectional observational study was conducted in the Firoozgar Hospital, Tehran from April 2013 to March 2017. The clinical records of all patients who died in the emergency department through the study period were studied. The extracted demographic characteristics and causes of death were analyzed using SPSS-25 software. **Results:** In the last 5 years, sepsis (24.02%), out-of-hospital cardiac arrest (20.46%), acute coronary syndrome (19.48%), trauma (accidents and falls from a height) (17.78%), multi organ dysfunction (7.08%), intracranial hemorrhage (6.8%) and pulmonary embolism (4.38%) were the main causes of mortality in hospitals. **Conclusion:** Sepsis, out-of-hospital cardiac arrest, ACS, trauma, multi organ dysfunction, intracranial hemorrhage and pulmonary embolism are the main causes of mortality in hospitals. The high prevalence of death causes, such as sepsis and trauma indicate that such causes should be controlled and prevented, so that by equipping the emergency departments and proper planning, life expectancy can be increased

**Keywords**: Mortality, Causes of Death, Emergency Department, Firoozgar Hospital