Journal of Surgery and Trauma 2020; 8(2):66-72

jsurgery.bums.ac.ir



Epidemiological study of self-immolated patients referring to Velayat burn and reconstructive surgery center of Rasht

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Received: January 26, 2020 Revised: April 08, 2020 Accepted: May 06, 2020

Abstract

Introduction: Self-immolation is a deadly and painful issue that incurs high costs socially and individually. People who self-immolatearehardly cured and they will undergo serious mental and physical complications. This study aimed to determine the epidemiological distribution of self-immolated patients referring to Velayat Burn and Reconstructive Surgery Center in Rasht. Iran.

Methods: This study was conducted based on a descriptive and cross-sectional design in Velayat Hospital in Rasht, Guilan province. The sample included all cases of self-immola on referring to Velayat Hospital from the beginning of April 2009 to the end of March 2017. The total number of self-immolated patients referred to hospital and registered was 96 individuals. Data were extracted from patients' records using a researcher-made checklist. Descriptive statistics, such as mean, standard deviation, and analytical tests such as Poisson and multivariate logistic regression have been used for data analysis. Data were completely analyzed using STATA-SE so ware (version 13.1).

Results: According to the results, 51% of the pa ents were female, and 67% of the cases were married; moreover, 43% of the females were housewives, and 42 % of the pa ents had a history of mental illness. It is worth men oning that91% of the cases had no history of self-immolation. The most common reasons for self-immolation has been mental disorders (38.5%) and family problems (37.5%). The frequency of the rate of self-immolation has been almost equal in urban and rural areas, whereas the majority of the cases were observed in Rasht, Talesh, and Lahijan. In total, 60% of the pa ents died. The mean \pm SD age, total body surface area (TBSA), and hospitaliza on period were 37.5 \pm 1.5 years, 61.3 \pm 2.8, and 9.3 \pm 8 days, respec vely. Analysis of regressions shows that the mortality rate has a direct and signic cantirela onship with age and TBSA. Moreover, hospitalization time has a direct relationship with gender (i.e., male), TBSA, history of mental disease, previous records of suicide, and marital status (i.e., being married). However, it has a negative relationship with age and education.

Conclusions: The level of burns is high in patients who are self-immolating, and mental disorders and familial problems have been the main reason for it. Therefore, although the frequency of self-immolation rate is lower, compared to other suicide methods, thesesmall groups of patients need special care due to the high rate of mortality.

Key words: Burns, Epidemiology, Patients, Self-injurious behavior

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