

Frequency of Seizure Types in Patients with Multiple Sclerosis (MS) referred to Alavi Hospital in Ardebil

Abstract

Background and objective : One of the diseases that increases the risk of seizures in person is multiple sclerosis. Several studies have reported multiple sclerosis as a risk factor for seizure. This study was conducted to determine the frequency of seizure types in patients with multiple sclerosis (MS) referred to Alavi hospital in Ardebil.

Methods : This study was descriptive-cross-sectional. To collect the data, a questionnaire was developed in this study which included questions about demographic characteristics, family history of the disease, and onset of disease signs in patients with multiple sclerosis. After completing the checklist and the obtained data, the data were analyzed by statistical methods using spssv21 software. The collected data were entered into the SPSSv21 statistical software. In cases where the information was of a qualitative type, coding and qualitative analysis were performed. Descriptive statistics methods were used to assess the relative distribution of quantitative variables and inferential statistics for assessing qualitative differences between different groups.

Results: In this study, 250 patients were studied. Of these 17 patients, 6.8% had seizure. The mean age of patients with seizure was 36.1 ± 11.1 years in the study. Of the 17 patients with seizure, the study included 5 male patients (29.4%) and the rest were women. Overall, 2% of all the patients who had seizure were men and 4.8% were women . In this study, 213 patients had no family history of MS. The highest prevalence in both sexes was generalized seizure and there was no significant relationship between gender and type of seizure. Among patients with multiple sclerosis, 94 of them had the first symptoms of MS visual impairment, of which 7 (7.44%) had an outbreak, 7 of them 41.2% before MS, and 10 of them 58% had seizure after MS. Among those with a previous history of seizure, 4 reported a seizure condition after MS.

Conclusion : According to the results of this study, the frequency of seizure in patients with multiple sclerosis is higher than normal people.

Keywords: Seizure, Multiple sclerosis, Patient questionnaire