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Comparison in male and female patient in anxiety and depression before and after implantable cardioverter defibrillator

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Abstract

Introduction: cardiac dysrhythmia is the most common cause of sudden cardiac death. Reduction of the time between the onset of dysrhythmia and delivering shock is vital to save patients' life which is not under control by medical staffs in many cases. Today, implantable cardioverter-defibrillator use to avoid delay time in delivery of cardiac shock in patients. However patients' psychological reactions such as anxiety and depression are unknown. Besides, patients' reactions can be different based on their gender.

Objective: comparison of anxiety and depression in male and female patients before and after insertion of implantable cardioverter-defibrillator in patient referring to the heart of Tehran, 1383.

Design: In this cross-sectional study, 96 male and 70 female patients who had implantable cardioverter-defibrillator were examined. A convenience sampling method was used. Data collection, Data Analysis

Results: the mean and SD of anxiety level in males and females before insertion of implantable cardioverter-defibrillator were 9.6 ± 5.0 and 7.3 ± 4.5 respectively. There was a statistically significant difference between male and female patients’ anxiety level before insertion of implantable cardioverter-defibrillator (p = 0.033). There was also a statistically significant difference between male and female depressive level before insertion of implantable cardioverter-defibrillator (p = 0.042). The mean and SD of anxiety level in males and females before insertion of implantable cardioverter-defibrillator were 3.6 ± 1.0 and 4.8 ± 2.3 respectively.

The mean and SD of anxiety level in males and females after insertion of implantable cardioverter-defibrillator were 4.6 ± 5.7 and 4.8 ± 5.7 respectively. There was a statistically significant difference between male and female patients’ anxiety level before insertion of implantable cardioverter-defibrillator (p = 0.031). There was no significant difference between male and female depressive level before insertion of implantable cardioverter-defibrillator. The mean and SD of anxiety level in males and females before insertion of implantable cardioverter-defibrillator were 4.9 ± 1.1 and 4.0 ± 1.8 respectively.

Outcome measures: The results showed that female patients suffer from higher levels of anxiety and depression after insertion of implantable cardioverter-defibrillator. Therefore, gender impacts on the level of anxiety and depression after insertion of implantable cardioverter-defibrillator.

Key words: sudden cardiac death, implantable cardioverter-defibrillator, anxiety, depression