A systematic review on the impact of empowerment in improving self-care behaviors and some other factors in diabetic patients

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ABSTRACT

Introduction: Traditional education seems to be sufficient in meeting the needs related to knowledge of patients. However, by recognizing the impact of psychosocial issues and the environment on patients' behavior, educational techniques were used to change patients' behavior. And the education approach to diabetic patients has changed, as well as the theory and research on diabetes was introduced. And the focus of the capacity building approach to adapt treatment to self-efficacy and empowerment was changed. Empowerment is a collaborative approach to diabetes care and patient education. This systematic review was conducted with the aim of empowerment in improving self-care behaviors in diabetic patients.

Materials and Methods: In order to achieve the aim of the study and to improve the accuracy of the study and its comprehensive understanding, this review study was conducted based on the Broome method. This method is carried out in three steps: searching for texts, evaluating data and analyzing data. So, in the search phase, post-retrospective study texts are examined in four stages in terms of inclusion criteria. After obtaining the conditions for entry into the study, the content of the study is evaluated and at the end of the analysis of the data. Results: In this study, 12 articles were reviewed that showed that the empowerment approach of diabetic patients improves self-efficacy and self-care scores and reduces hemoglobin A1C, Improvement of general self-care behaviors, reduction of mean glycosylated hemoglobin and improvement of quality of life, blood glucose control, and so on. Conclusion: In researches done on the empowerment approach of diabetic patients, the importance of empowerment approach is confirmed by increasing control and self-care and improving some other factors in diabetic patients. Therefore, considering the importance of the concept of empowerment as an effective approach to supporting patients with diabetes, it is necessary to consider this approach in further research.

Key words: empowerment approach, diabetes, diabetic patients.

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Introduction

Diabetes is the most common disease due to metabolic disorders and is considered a global challenge. It is a heterogeneous chronic, metabolic and genetic disorder characterized by increased levels of blood glucose and metabolic abnormalities in carbohydrates, proteins, and fats [1-5]. The prevalence of this disease in Iran is more than 14 percent, according to the statistics released by the health department's health department in a population over the age of 30 years. Diabetes is one of the most important health and socio-economic problems in the world today, with many complications such as blindness, nephropathy, neuropathy, and cardiovascular disease. [6-12].

The overall complications of diabetes cause a lot of illnesses. Compliance with a program and diet in these patients is one of the bases for individual diabetes management. Lifestyle
behaviors, including nutritional behaviors, play an important role in preventing and managing diabetes. [13-19].

Among diabetic patients, depression is one of the most common psychiatric disorders in adolescence. [20-21]. Depression and occupational stress daily can cause some disorders in people's mental and physical health. Job stress can be considered as a combination of stressful factors and job-related situations. [22-25]. High occupational stress is known as a known psychosocial factor in cardiovascular disease. [26]. Diabetes is also one of the most common endocrine complications in people with thalassemia. [27]. Thalassemia is one of the most commonly diagnosed blood disorders that is genotyped (recessive and non-dependent) from generation to generation. [28,29].

Among the chronic diseases, such as diabetes, only a small proportion is being treated by the specialist, while most diseases are managed by the individual and his family. [30, 31]. Traditional education seems to be adequate in meeting the needs of patients, but by recognizing the impact of psychosocial issues and the environment on patient behavior, teaching techniques have been used to change the behavior of patients, and the approach to training for patients with diabetes has changed, and also the theory and research on diabetes came into being and the focus of the capacity building approach was changed to self-efficacy and empowerment. Empowerment is a collaborative approach to diabetes care and patient education. [32,33].

This systematic review was conducted with the aim of empowerment in improving self-care behaviors in diabetic patients.

Materials and Methods

In order to achieve the aim of the study and to improve the accuracy of the study and its comprehensive understanding, this review study was conducted based on the Broome method. This method is carried out in three steps: searching for texts, evaluating data and analyzing data. So, in the search phase, post-retrospective study texts are examined in four stages in terms of inclusion criteria. After obtaining the conditions for entry into the study, the content of the study is evaluated and at the end of the analysis of the data.

The criteria for entering articles, including studies published in Farsi and in English, had access to their full text, published over the past 25 years, and interventional studies based on the empowerment approach of patients with diabetes and exclusion criteria included unnamed, unannounced and unpublished studies, and articles lacking the full text of the article.

This review is a systematic review using the articles published in the last 25 years regarding the impact of empowerment on improving self-care behaviors and some other factors in diabetic patients. It was conducted in English and Persian by searching articles in search engines, sites and authoritative scientific databases SID, Magiran, Embase, Research Gate, Science direct, Google Scholar, PubMed, Springer. In the first stage, 37 articles were found. Of these, 12 related articles that have been published in the last 25 years have been reviewed.

To achieve relevant studies, a wide range of keywords including Empowerment approach, diabetes, diabetic patients was used as a one-to-one search, combined with the method "And" and "OR".

Results

Among the chronic diseases, such as diabetes, only a small proportion is being treated by the specialist, while most diseases are managed by the individual and his family. [30, 31]. In the empowerment approach, the need to adapt to the needs of patients and reflect their experiences in life with diabetes, with the aim of identifying and enhancing the strengths and making informed choices, is necessary and necessary. It has been shown that increasing awareness of diabetes alone is not enough to initiate, maintain, and maintain self-management behaviors and long-term control of diabetes [34]. We reviewed 12 articles on the empowerment impact on improving self-care behaviors and some other factors in diabetic patients.

In a study on empowerment in people with diabetes, it was found that the results of these studies will reduce the average glycosylated hemoglobin, improve general self-care behaviors, and so on. For example, in studies [35-40], these interventions increased the level of knowledge, increased self-efficacy and improved quality of life for adolescents, improved self-efficacy and self-care scores, and decreased hemoglobin A1C, improved overall self-care behaviors, decreased mean glycogenic hemoglobin and improved Quality of life and control of blood glucose.

It also increased the psychosocial self-efficacy of diabetes in psychological aspects, increased mean score of knowledge, self-efficacy and self-esteem, promotion of knowledge and confidence.
in diabetes, increased mean score of knowledge, increased control over disease. And improving self-care and knowledge, improving clinical results for HbA1c and LDL and reducing blood glucose, reducing clinical trials (HbA1c and weight and BMI), and improving physical activity, diet, and controlling stress and emotions, promoting knowledge and understanding of diabetes and decreased cholesterol, weight, blood glucose and BMI, and improved quality of life and self-care behaviors [41-46].

Discussion

Diabetes is the most common disease due to metabolic disorders and is considered a global challenge. It is a heterogeneous chronic, metabolic and genetic disorder characterized by increased levels of blood glucose and metabolic abnormalities in carbohydrates, proteins, and fats [1-5]. Traditional education seems to be adequate in meeting the needs of patients, but by recognizing the impact of psychosocial issues and the environment on patient behavior, teaching techniques have been used to change the behavior of patients, and the approach to training for patients with diabetes has changed, and also The theory and research on diabetes came into being and the focus of the capacity building approach was changed to self-efficacy and empowerment. Empowerment is a collaborative approach to diabetes care and patient education. [32,33].

In the empowerment approach, the need to adapt to the needs of patients and reflect their experiences in life with diabetes, with the aim of identifying and enhancing the strengths and making informed choices, is necessary and necessary. It has been shown that increasing awareness of diabetes alone is not enough to start, maintain, and maintain self-management behaviors and long-term control of diabetes. Therefore, in designing empowerment interventions, it is recommended to pay attention to the use of appropriate educational technologies and multimedia resources and social and interactive strategies [47]. This systematic review was conducted with the aim of empowerment in improving self-care behaviors in diabetic patients.

We reviewed this article by reviewing 12 research articles that these studies emphasize the empowerment approach in improving self-care behaviors and some other factors in diabetic patients. According to the results of the study [35], the implementation of the empowerment plan has been able to increase the effectiveness of patients in controlling blood glucose and effectively reduce the level of glycosylated hemoglobin in type II diabetic patients.

According to the results of the study [36], an empowering training program is needed to improve and maintain some self-care subscales.

According to the results of the study [37], it can be said that the intervention has an effective empowerment model on the quality of life of diabetic adolescents. This study suggests that this model should be implemented in other age groups of society and more widely.

In all of the studies, more empowerment has been emphasized on controlling clinical outcomes and promoting self-care behaviors and self-efficacy in diabetic patients, and except for a study that addresses family-centered empowerment. In two studies that used peer support strategies, social empowerment was not addressed in other studies. While in individual empowerment, it refers to the individual’s ability to make decisions and control his or her personal life, and in social empowerment, individuals are involved in maximizing the impact and control of determinants of health and quality of life in the community [50].

The empowerment process is related to the environmental and social context, and is a social process that is gained with the participation of others [51], but in most studies its social dimension has not been paid attention.

Conclusion

In researches done on the empowerment approach of diabetic patients, the importance of empowerment approach is confirmed by increasing control and self-care and improving some other factors in diabetic patients. Therefore, considering the importance of the concept of empowerment as an effective approach to supporting patients with diabetes, it is necessary to consider this approach in further research.

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