Self-Efficacy and Self-Care of Diabetes Mellitus Patient: a Literature Review

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Abstract— Diabetes mellitus is a chronic illness which needs a long term treatment. Patients could manage their condition with self-efficacy and self-care to avoid complication. This research aimed to explain about self-efficacy and self-care of diabetes mellitus patients. This research methodology was a literature review from 10 articles regarding diabetes mellitus self-efficacy and self-care. The researcher was collecting data from PubMed, Proquest, and Google scholar, using keywords such as self-care in diabetes mellitus, self-confidence in diabetes mellitus. After obtaining the articles, some factors influence in self-care, one of them was confidence. Confidence could be a sign that patients were ready to change their lifestyle and do positive things to control diabetes mellitus. An effective self-care could minimize complication, enhancing confidence and independence in self-care, since self-care was one of the main factors in improving their health. In conclusion, self-care could influence people self-care.

Keywords: self-efficacy, self-care, diabetes mellitus.

I. Introduction

Diabetes mellitus is a chronic illness which the body is disabled in doing carbohydrate, fat, and protein metabolism, therefore, it would enhance blood sugar. Diabetes mellitus needs long term treatment. Self-care is one of the important things in the treatment of diabetes mellitus patients to control blood sugar and avoid complication [4]. In doing self-care diabetes mellitus patients have different perceptions about how to do a self-care and the results of their behaviour. Self-care was one of the processes to manage their health by adopting skills and attitude to avoid disease and health recovery [3]. Chronic illness patients could maintain health and avoid complication with doing self-management through self-care [1]. Diabetes mellitus patients who have high self-efficacy could be better in self-care compared to those who have low self-efficacy. Patients who have good self-care and self-efficacy could manage their illness to avoid complication. Research concerning self-efficacy and self-care found that nurse needs to encourage the independence of diabetes mellitus patients by improving self-efficacy, thus, diabetes mellitus patients could manage the symptoms and avoid the complications. This article aimed to explain the importance of diabetes mellitus patients.

II. Method

The research methodology was using a literature review. The researcher collected some articles from PubMed, Proquest, Google scholar by keywords such as self-care diabetes mellitus, self-efficacy diabetes mellitus. This literature review used ten articles that fulfilled the inclusion criteria: 1]. article focused on self-efficacy concept, 2]. article regarding self-care in diabetes mellitus patient, 3] article published in Bahasa and English, 4]. article had published between 2004 until 2017, 5] the research sample was chronic and diabetes mellitus patients.

III. Result

The researcher collected five articles from google scholar, three articles from ProQuest, and two articles from PubMed.

| Database: PubMed, Proquest, google scholar |
|------------------------------------------|
| 86 articles                              |
| 56 articles duplicate/similar and out of the topic |
| 26 articles                              |
| 10 articles were not included in inclusion criteria |
| 16 articles                              |
| 10 articles in inclusion criteria        |
The result from a literature review of ten articles revealed that diabetes mellitus patients should have self-efficacy and good self-care to manage their illness. This activity aimed to make patients understand, being motivated to protect, care and keep their health.

IV. Discussion
[2], stated that self-efficacy is closely related to health behaviour and keep those attitudes consistently. Diabetes mellitus patients have a principle in doing self-care. Daily self-care depends on their principle in doing self-care and decides about the result will they achieved. Those ability influences motivation, initiatives and participation in doing self-care. Someone who has a high efficacy also will have high motivation. The ability to do one attitude was a success. [7] showed that self-efficacy closely related to self-care attitude in diabetes mellitus patient. According to research, self-efficacy had known as a key factor in doing self-care and chronic illness management. According to [6], stated that self-efficacy give more contribution to the understanding of health behaviour. So self-efficacy was important to enhance knowledge, behavior and ability [9]. [7] revealed that self-efficacy closely related to self-care attitude in diabetes mellitus patients. It showed that diabetes mellitus patients need motivation and confidence in their self-care ability. An effective self-care can minimize complication, enhancing confidence and independence since self-care is a key factor in improving human’s health. The purpose of diabetes mellitus self-care is to normalize insulin activity and blood glucose to avoid complication. The aim of applying the treatment of type 2 is to achieve normal blood glucose without hypoglycemia and serious problem in patients’ activity [8]. Five pillars in manage DM type 2 are diet, physical exercise, controlling blood sugar, medicine to avoid hypoglycemic and education.

V. Conclusion
The development of health technology nowadays has made us able to consider evidence-based regarding self-efficacy and self-care to provide intervention to help patients manage chronic illness and change lifestyle to minimize complication. Nurses should encourage patients to improve confidence and independence since self-care is a key factor in enhancing health. Hopefully, nurses could help diabetes mellitus patients through self-efficacy to lighten the symptoms and studies about self-efficacy and self-care in diabetes mellitus patients could be even broader.

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REFERENCES
[1]. Adulv, A., Asplund, K., & Norbergh, K. G. (2010). Who's in charge? The role of responsibility attribution in self-management among people with chronic illness. Patient education and counseling, 81(1), 94-100.
[2]. Bandura, A. (2004). Health promotion by social cognitive means. Health Education & Behavior.
[3]. Cameron, J., Ski, C. F., & Thompson, D. R. (2012). Screening for determinants of self-care in patients with chronic heart failure. Heart, Lung and Circulation, 21(12), 806-808.
[4]. Cassidy, Devarajoh. (2017). Depression, Distress and Self Efficacy The Impact On Diabetes Self Care Practice.
[5]. Hu, H., Li, G., & Arao, T. (2013). Validation of a Chinese Version of the Self-Efficacy for Managing Chronic Disease 6-Item Scale in Patients with Hypertension in Primary Care. ISRN Public Health
[6]. McAuley, C & Bunting, L. (2006) The views, cares and aspirations of care experienced and young people. Belfast: Voice of young People in Care.
[7]. Shi, Q., Ostwald, S. K., & Wang, S. (2010). Improving glycaemic control self-efficacy and glycaemic control behaviour in Chinese patients with Type 2 diabetes mellitus: randomised controlled trial. Journal of clinical nursing, 19(3-4), 398-404.
[8]. Smeltzer SC, Bare BD (2008). Textbook of Medical Surgical Nursing. Philadelphia: Lippincott Willian Wilkins
[9]. Varekamp, I., et al (2009). Facilitating empowerment in employees with chronic disease: qualitative analysis of the process of change. Journal of occupational rehabilitation, 19(4), 398-408.