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The Effect of Diabetes Self-Management Education (DSME) on Improving Self-Management and Quality of Life in Millitus Type 2 Diabetes

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ABSTRACT

Self-management is a form of self-management or selfregulation which includes knowledge and skills in self-management. Quality of life is the level where individuals can maximize the physical and psychological functioning of life. This research method is True-Experiment with Pre-Test and Post-Test designs. The research instruments were DSMQ and WHOQOL. Independent Daiabetes Self-Management Education Dependent Variables Self-management and quality of life. Subjects were divided into two, namely the control group totaling 55 people and the intervention group amounting to 55 people using simple random sampling technique. Data analysis using Wilcoxon and Maan-Whitney. The results of the comparison of self-management in the intervention group and the control group obtained a significance value of 0.000 less than 0.05 (p <0.05) indicating that the group given the intervention was more effective at improving self-management significantly than the group that was not given the intervention. The results of the comparison of the quality of life variables of the intervention group and the control group obtained a significance value of 0.000 less than 0.05 (p < 0.05), which indicates that the group given the intervention was more effective in improving the quality of life significantly compared to the group that was not given the intervention.

Keywords: Education, Self-Management, Quality of Life, Diabetes Mellitus

Diabetes Meintus

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INTRODUCTION

Non-Communicable Diseases (PNM) has become a public health problem, in recent years Non-Communicable Disease (PNM) has emerged as a key public health problem due to the high number of deaths worldwide caused by Non-Communicable Diseases (PNM), a non-communicable disease. Contagious that has received a lot of attention is Diabetes Millitus Type 2 (Pham et al., 2019). People with Type 2 Diabetes Millitus often do not have the knowledge, skills and abilities in carrying out self-management or Self-Management. Diabetes Millitus self-management behavior is very little people understand, because there are internal and external obstacles. Patients with Type 2 Diabetes Millitus still do not understand the importance of modifying self-care such as diabetes millitus diet, diabetes millitus diet, diabetes millitus physical activity, and blood sugar control are part of Diabetes Millitus self-management (Whittemore et al., 2019). Self-management is self-management of how a person can and must manage themselves so that in becoming a

successful self in their life span, someone will experience confusion about themselves, who they are and how others see themselves, someone can assess themselves multidimensional and manage themselves, 2015).

MATERIALS AND METHODS

This research method is True-Experiment with Pre-Test and Post-Test designs. The research instruments were the DSMQ and WHOQOL. Independent Variables, Daiabetes Self-Management Education (DSME) Dependent Variables Self-management and quality of life. Subjects were divided into two, namely the control group totaling 55 people and the intervention group amounting to 55 people using simple random sampling technique. Data analysis using Wilcoxon and Maan-Whitney.

RESULTS

From the results of research conducted by researchers can be seen in the table as follow:

Tabel 1. Self-Management of Patients with Type II Diabetes Mellitus Comparison of Pre and Post Test in the Control Group

Variabel		M	SD	Z	Sig.	Ket
Diabetes Diet and Diet	Pre test	1.127	0.742	0.627	0.521	Tidak
Diabetes Diet and Diet	Post test	1.109	0.754	-0.627	0.531	TIUAK
Exercise / Physical Activi	Pre test	1.025	0.767	-1.796	0.072	Tidak
Diabetes	Post test	1.079	0.778	-1./90	0.072	пак
Dishetes Die d Cores Control	Pre test	1.167	0.766	1 224	0.221	T: 4-1-
Diabetes Blood Sugar Control	Post test	1.193	0.796	-1.224	0.221	Tidak
Diabetes Health Care	Pre test	1.135	0.774	1.721	0.005	Tr: 1.1
Diabetes Health Care	Post test	1.195	0.790	-1.721	0.085	Tidak
The search Com-	Pre test	0.745	1.004	0.222	0.749	T: 4-1-
Thorough Care	Post test	0.764	0.962	-0.322	0.748	Tidak
Calf Managament	Pre test	1.099	0.692	2.100	0.029	C::£:1
Self-Management	Post test	1.125	0.702	-2.198	0.028	Signifikan

The results of the comparison of the pre-test and post-test values on the dietary pattern and diabetes diet variables in the control group obtained a significance value of 0.531 and more than 0.05 (p> 0.05) which indicates that there is no significant increase in diet and diabetes diet without giving it. intervention. The results of the comparison of the pre-test and post-test values on the sports / physical activity variables of diabetes in the control group obtained a significance value of 0.072 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in sports / physical activity without giving diabetes. intervention. The results of the comparison of the pre-test and post-test values on the control variable diabetes blood sugar in the control group obtained a significance value of 0.221 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in diabetes blood sugar control without intervention. The results of the comparison of the pre-test and post-test scores on the diabetes health care variables in the control group obtained a significance value of 0.085 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in diabetes health care without intervention. The results of the comparison of the pre-test and post-test scores on the overall care variable in the control group obtained a significance value of 0.748 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in overall care without intervention. The results of the comparison of the pretest and post-test values on the self-management variable in the control group obtained a significance value of 0.028 and less than 0.05 (p <0.05) which indicates a small amount of improvement in self-management.

Tabel 2. Quality of Life for Patients with Type II Diabetes Mellitus Comparison of Pre-Test and Post in the Control Group

Variabel		M	SD	Z	Asymp Sig.	Significancy
Disersional III alida	Pre test	1.979	0.996	-1.601	0.100	N.
Physical Health	Post test	2.012	0.981	-1.001	0.109	No
D1. 1	Pre test	2.185	0.985	0.750	0.440	No
Psychology	Post test	2.204	1.012	-0.759	0.448	
a	Pre test	2.280	0.924	1 241	0.100	No
Social	Post test 2.240 0.922	-1.341	0.180			
	Pre test	1.979	0.892	1 402	0.125	No
Environment	Post test	1.943	0.928	-1.493	0.135	
Ti 1.	Pre test	2.336	1.093	0.701	0.420	No
Thorough	Post test	2.364	1.120	-0.791	0.429	
Quality of Life	Pre test	2.099	0.892	0.160	0.966	No
	Post test	2.099	0.908	-0.169	0.866	

The results of the comparison of the pre-test and post-test scores on the physical health variables in the control group obtained a significance value of 0.109 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in physical health without intervention. The results of the comparison of the pre-test and post-test scores on psychological variables in the control group obtained a significance value of 0.448 and more than 0.05 (p> 0.05) which indicates that there is no significant psychological improvement without the intervention. The results of the comparison of the pre-test and post-test scores on social variables in the control group obtained a significance value of 0.180 and more than 0.05 (p> 0.05), which indicates no significant social improvement without intervention. The results of the comparison of the pre-test and post-test values for environmental variables in the control group obtained a significance value of 0.135 and more than 0.05 (p> 0.05), which indicates that there is no significant environmental improvement without intervention. The results of the comparison of the pre-test and post-test scores on the overall variables in the control group obtained a significance value of 0.429 and more than 0.05 (p> 0.05), which indicates that there was no significant overall increase without intervention. The results of the comparison of the pre-test and post-test scores on the quality of life variable in the control group obtained a significance value of 0.866 and more than 0.05 (p> 0.05), which indicates that there was no significant increase in quality of life without intervention.

Tabel 3. Self-Management of Patients with Type II Diabetes Mellitus Comparison of Pre and Post Test in the Intervention Group

Variabel		M	SD	Z	Asymp Sig.	Significancy
Diabetes Diet and Diet	Pre test	1.477	0.775	5.5.61	0.000	C: -
	Post test	2.491	0.821	-5.561		Sig
Exercise / Physical Activity	Pre test	1.431	0.921	5.006	0.000	Sig
Diabetes	Post test	2.485	0.812 -5.226 0.	0.000		
Diabetes Blood Sugar Control	Pre test	1.367	0.773	-5.860	0.000	Sig
	Post test	2.458	0.900			
Diabatas Haalth Cara	Pre test	1.418	0.792	-5.845	0.000	Sig
Diabetes Health Care	Post test	2.539	0.803			
Thousand Com	Pre test	1.436	0.996	4.092	0.000	Sig
Thorough Care	Post test	2.491	0.979	-4.983	0.000	
Self-Management	Pre test	1.421	0.734	C 120	0.000	Sig
	Post test	2.490	0.820	-6.128	0.000	

The results of the comparison of the pre-test and post-test values on the variable dietary diet and diabetes diet in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in dietary patterns and diabetic diet with the intervention . The results of the comparison of the pre-test and post-test values on the sports / physical activity variables of diabetes in the intervention group obtained a significance value of

0.000 and less than 0.05 (p <0.05) which indicates a significant increase in sports / physical activity with diabetes with the intervention. The results of the comparison of the pre-test and post-test values on the control variable diabetes blood sugar in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in diabetes blood sugar control with the intervention. The results of the comparison of the pre-test and post-test values on the diabetes health care variable in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in diabetes health care with the provision of intervention. The results of the comparison of the pre-test and post-test scores on the overall care variable in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in overall care with the intervention. The results of the comparison of the pre-test and post-test scores on the self-management variable in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in self-management with the provision of intervention

Tabel 4. Quality of Life for Patients with Type II Diabetes Mellitus Comparison of Pre and Post Test in the Intervention Group

Variabel		M	SD	\mathbf{Z}	Asymp Sig.	Significancy
DI ' 1 II 1/1	Pre test	2.148	1.280	<i>5</i> (90	0.000	Sig
Physical Health	Post test	3.720	1.477	-5.689		
	Pre test	2.429	0.952	5.021		Sig
Psychology	Post test	3.655	1.182	-5.831	0.000	
Social	Pre test	2.385	1.160	-5.552	0.000	Sig
	Post test	3.273	1.021			
-	Pre test	2.205	1.063	4.002	0.000	Sig
Environment	Post test	2.780	1.072	-4.893	0.000	
Thorough	Pre test	2.727	1.018	5 404	0.000	Sig
	Post test	3.964	1.258	-5.404	0.000	
Quality of Life	Pre test	2.331	1.062	5.052	0.000	Sig
	Post test	3.392	1.165	-5.952	0.000	

The results of the comparison of the pre-test and post-test values on the physical health variables in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates a significant increase in physical health with the intervention. The results of the comparison of the pre-test and post-test scores on psychological variables in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant psychological improvement with the intervention. The results of the comparison of the pre-test and post-test scores on social variables in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates a significant social improvement with the intervention. The results of the comparison of the pre-test and post-test scores on environmental variables in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in the environment with the provision of intervention. The results of the comparison of the pre-test and post-test scores on the overall variables in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant overall increase with the provision of the intervention. The results of the comparison of the pre-test and post-test scores on the quality of life variable in the intervention group obtained a significance value of 0.000 and less than 0.05 (p <0.05) which indicates a significant increase in the quality of life with the intervention.

Table 5. Self-Management of Patients with Type II Diabetes Mellitus Comparison of Control and Intervention Groups

Variabel	-	M	SD	Z	Asymp Sig.	Significancy
Dishere Dist and Dist	Intervensi	2.491	0.821	(762	0.000	Sig
Diabetes Diet and Diet	Kontrol	1.109	0.754	-6.763	0.000	
E	Intervensi	2.485	0.812	6.722	0.000	Sig
Exercise / Physical Activity Diabetes	Kontrol	1.079	0.778	-6.732	0.000	
District Plants of Control	Intervensi	2.458	0.900	C 221	0.000	Sig
Diabetes Blood Sugar Control	Kontrol	1.193	3 0.796 -6.231 0.00	0.000		
Dishere Health Con-	Intervensi	2.539	0.803	6.096	0.000	Sig
Diabetes Health Care	Kontrol	1.195	0.790	-6.986	0.000	
The group h. Com-	Intervensi	2.491	0.979	6 924	0.000	Sig
Thorough Care	Kontrol	0.764	0.962	-6.824		
Cale Management	Intervensi	2.490	0.820	7.420	0.000	Sig
Self-Management	Kontrol	1.125	0.702	-7.430	0.000	

The results of the comparison of the variable dietary diet and diabetes diet between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective in improving the diabetes diet and diet significantly. compared with the group not given the intervention. The results of the comparison of the diabetes exercise / physical activity variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at increasing diabetes exercise / physical activity significantly, compared with the group not given the intervention. The results of the comparison of the diabetes blood sugar control variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at improving diabetes blood sugar control significantly compared to the group that was not given the intervention. on the diabetes health care variable between the intervention group and the control group, a significance value of 0.000 and less than 0.05 (p <0.05) was obtained, which indicates that the group given the intervention was more effective at improving diabetes health care significantly compared to the group that was not given intervention. The results of the comparison of the post-test scores on the overall care variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at increasing overall care significantly compared to the who were not given the intervention. The results of the comparison of the self-management variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at improving self-management significantly compared to the group that was not given. intervention.

Tabel 6. Quality of Life of Patients with Type II Diabetes Mellitus Comparison in Control and Intervention Group

	M	SD	Z	Asymp Sig.	Significancy
Intervensi	3.720	1.477	5 272	0.000	Sig
Kontrol		0.000			
Intervensi	3.655	1.182	5 ((1	0.000	Sig
Kontrol	2.204	1.012	-3.001	0.000	
Intervensi	3.273	1.021	-5.239	0.000	Sig
Kontrol	2.240	0.922			
Intervensi	2.780	1.072	4.529	0.000	Sig
Kontrol	1.943	0.928	-4.328	0.000	
Intervensi	3.964	1.258	5.025	0.000	Sig
Kontrol	2.364	1.120	-3.923	0.000	
Intervensi	3.392	1.165	5 226	0.000	Sig
Kontrol	2.099	0.908	-3.230	0.000	
	Kontrol Intervensi Kontrol Intervensi Kontrol Intervensi Kontrol Intervensi Kontrol Intervensi	Intervensi 3.720 Kontrol 2.012 Intervensi 3.655 Kontrol 2.204 Intervensi 3.273 Kontrol 2.240 Intervensi 2.780 Kontrol 1.943 Intervensi 3.964 Kontrol 2.364 Intervensi 3.392	Intervensi 3.720 1.477 Kontrol 2.012 0.981 Intervensi 3.655 1.182 Kontrol 2.204 1.012 Intervensi 3.273 1.021 Kontrol 2.240 0.922 Intervensi 2.780 1.072 Kontrol 1.943 0.928 Intervensi 3.964 1.258 Kontrol 2.364 1.120 Intervensi 3.392 1.165	Intervensi 3.720 1.477 -5.272 Kontrol 2.012 0.981 -5.272 Intervensi 3.655 1.182 -5.661 Kontrol 2.204 1.012 -5.661 Intervensi 3.273 1.021 -5.239 Kontrol 2.240 0.922 -5.239 Intervensi 2.780 1.072 -4.528 Kontrol 1.943 0.928 -4.528 Intervensi 3.964 1.258 -5.925 Kontrol 2.364 1.120 -5.236 Intervensi 3.392 1.165 -5.236	Intervensi 3.720 1.477 -5.272 0.000 Kontrol 2.012 0.981 -5.272 0.000 Intervensi 3.655 1.182 -5.661 0.000 Kontrol 2.204 1.012 -5.239 0.000 Intervensi 2.780 1.072 -5.239 0.000 Kontrol 1.943 0.928 -4.528 0.000 Intervensi 3.964 1.258 -5.925 0.000 Intervensi 3.392 1.165 -5.236 0.000

The results of the comparison of the physical health variables between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at improving physical health significantly than the group that was not given. intervention. The results of the comparison of the psychological variables between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p < 0.05), which indicates that the group given the intervention was more effective at improving psychology significantly than the group that was not given the intervention. The results of the comparison of the social variables between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p < 0.05), which indicates that the group given the intervention was more effective at improving social significantly than the group that was not given the intervention. The results of the comparison of the environmental variables between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p < 0.05), which indicates that the group given the intervention was more effective in improving the environment significantly than the group that was not given the intervention. The results of the comparison of the overall variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group that was given the intervention was more effective at increasing overall significantly compared to the group that was not given the intervention. The results of the comparison of the quality of life variable between the intervention group and the control group obtained a significance value of 0.000 and less than 0.05 (p <0.05), which indicates that the group given the intervention was more effective at improving quality of life significantly compared to the group that was not given intervention.

DISCUSSION

According to Seventina, H., (2019), said that health education is very influential on the level of knowledge, besides that health education can affect the level of knowledge so that it can have changes in healthy behavior. According to Bekele, B. B., (2020), said that Diabetes Self-Management Education (DSME) has a positive impact on the level of self-management and quality of life in people with Diabetes Millitus and can reduce the risk of complications in Diabetes Millitus. Diabetes Self-Management Education (DSME) is a process of facilitating skills, knowledge and abilities in self-care or diabetes millitus self-management. According to Agustiningrum, R. (2019), in his research, he said that Diabetes Self-Management Education (DSME) is very effective for self-care in Diabetes Millitus patients. From the results of research conducted by researchers in the intervention group, Diabetes Self-Management Education (DSME) is a Diabetes Millitus health education method that is effective in increasing knowledge. Skills and abilities in self-management and quality of life in people with Type II Diabetes Millitus. From the results of research conducted by researchers in the intervention group, it is proven that they have knowledge, skills and abilities in self-management and experience improvement in selfmanagement and quality of life after being given the Diabetes Self-Management Education (DSME) health education method or program. Diabetes Self-Management Education (DSME) was able to improve self-management and quality of life in the intervention group so that there were significant changes in the level of self-management and quality of life in people with Type II Diabetes Millitus. According to Maulana (2019), one of the strategies in obtaining behavior change in people with Diabetes Millitus is by providing health information or education. The process of empowering or empowering people with Diabetes Millitus can be done by providing information or education such as health education in changing behavior and attitudes in order to achieve selfmanagement and a good quality of life. According to Notoadmodjo (2007), the level of education greatly determines a person's ability to understand the knowledge obtained, such as the higher the level of one's education, the more someone is willing to accept and understand information. Research conducted by Wiastuti (2017) states that high levels of education will tend to easily absorb health information so that it can change a person's behavior. According to Haas, (2014) in his journal entitled National Standards DSME is a process to facilitate the knowledge, skills, and abilities needed for diabetes self-care (Self-Management). This process combines the needs, goals, and life experiences of people with diabetes or prediabetes and is guided by evidence-based standards. The overall goal of DSME is to support decision making, self-care behavior, problem solving, and active collaboration with health care teams and to improve clinical outcomes, health status, and quality of life.

CONCLUSION

Based on the results of the research that has been presented, Diabetes Self-Management Education (DSME) is proven to be effective in improving self-management and quality of life in Diabetes Millitus sufferers, Diabetes Millitus sufferers are able to determine the right nutritional diet, be able to exercise / physical activity, control blood sugar levels and being able to perform Diabetes Millitus health so that the treatment of Diabetes Millitus sufferers who have good levels of self-management and good quality of life. Diabetes Self-Management Education (DSME) can improve self-management and quality of life in people with Type II Diabetes Millitus. The results of the study showed that the intervention group that was given treatment or intervention proved to be very effective in improving self-management and quality of life and was inversely proportional to the control group that was not given treatmen.

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CONFLICTS OF INTEREST

In the research that has been done, this research does not have a conflict of interest from other parties.

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KOMISI ETIK PENELITIAN KESEHATAN HEALTH RESEARCH ETHICS COMMITTEE INSTITUT ILMU KESEHATAN STRADA INDONESIA INSTITUTE OF HEALTH SCIENCE STRADA INDONESIA

KETERANGAN LOLOS UJI ETIK DESCRIPTION OF ETHICAL APPROVAL "ETHICAL APPROVAL"

NOMOR: 2836/KEPK/IV/2021

Komite Etik Penelitian Kesehatan Institut Ilmu Kesehatan STRADA Indonesia dalam upaya melindungi hak asasi dan kesejahteraan subyek penelitian kesehatan, telah mengkaji dengan teliti protokol berjudul :

Health Research Ethics Committee Institute of Health Science STRADA Indonesia in the effort to protect the rights and welfare of research subjects of health, has reviewed carefully the protocol entitled:

"The Effect of Diabetes Self-Management Education (DSME) on Improving Self-Management and Quality of Life in Millitus Type 2 Diabetes"

Peneliti

: Dr. Indasah, Ir., M.Kes

Investigator

Nama Institusi

: Institut Ilmu Kesehatan STRADA Indonesia

Name of Institution

Dan telah menyetujui protokol tersebut di atas.

And approved the above-mentioned protocol.

Kediri, 10 April 2021

KETUA

KOMISI ETIK PENELITIAN KESEHATAN

Mohamad As'ad Efendy, S.Kep., Ns., M.Kep.

NIK: 13. 07. 12. 143