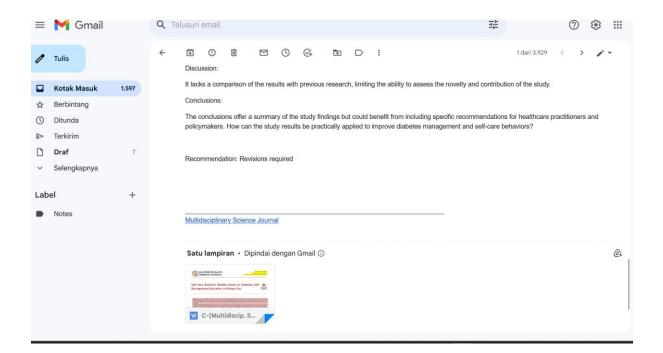
=	M Gmail		9	Telusuri	email												?) 🤃	***
1	Tulis		÷	*	()	Ī		()	⊘+	₽		:				1 dari 3.928	<	>	р ^а т
	Kotak Masuk	1.597			Forw	arded me	essage												
☆	Berbintang			From	: OJS - I	Malque I	Publishi	ng Jour	nals <ojs< td=""><td>@malqu</td><td>e.pub></td><td></td><td></td><td></td><td></td><td></td><td></td><th></th><td></td></ojs<>	@malqu	e.pub>								
0	Ditunda						23 at 9:1 Sci. J.] Si		n Acknov	vledgem	ənt								
⊳	Terkirim			To: N	lilawati U	ly < <u>haer</u>	il.amir@	umi.ac.id	>										
۵	Draf	7																	1
~	Selengkapnya			Nilaw	vati Uly:														
Lab	el	+		Scier	nce Jourr	nal. With		ne journa								ucation in Palopo gress through the			
•	Notes				nission U name: ha			<u>ıe.pub/oj</u>	s/index.p	<u>hp/msj/a</u>	<u>uthorDa</u>	shboard	d/submissi	ion/1009					
				lf you	u have ar	ıy questi	ions, plea	ase conta	act me. T	hank you	for con	sidering	g this journa	nal as a venue	for your work.				
				Dr. N	laiko Dar	ntas - Ed	litor-in-ch	ief											
				Multi	disciplina	ry Scier	ice Journ	al											

Multidisciplinary Science	Journal				43 💿
	Submissions My Queue 4	Archives (4)			Ø Help
	My Assigned		Q Search	T Filters New Subr	
= M Gmail	Q Te	Iusuri email	0 64 🖬 D :		∰ (2) 🐼 🗰 1 dari 3.929 < > 🖌 🗸 🗸
 Tulis Kotak Masuk Berbintang 	1.597	Reviewer B: Study's title: Critical Analysis of *	"Self Care Behavior Models based on	Diabetes Self Management Educatio	on in Palopo City"
 ① Ditunda ▷ Terkirim □ Draf ∨ Selengkapnya 	7	The study aims to determine the diabetes and preventing complic	impact of self-care behavior models	on diabetes self-management educat behaviors. This study is relevant as it	in patients with type 2 Diabetes Mellitus (DM), tion and offers valuable insights into managing addresses a significant public health concern
Label Notes	+	However, improvements are nee	ded in terms of clarity in the introduct	ion and discussion sections, as well a	as a more in-depth interpretation of the results:
		Introduction: It lacks a clear research objective the study. Materials and Methods:	e and hypothesis statement at the en	d of the introduction. Adding these ele	ements would enhance the clarity and focus of
			pling technique in more detail is esser collection should be included or refer		rticipant selection process.



≡ M G	mail	Q Telusuri email	荘	0 🕸 🏭
🖉 Tulis			1 dari 3.5	930 < > 🎢 🕶
🖬 Kotak Ma	asuk 1.597	Title: "Self Care Behavior Models based on Diabetes Self Management Education in Palop	o City"	
☆ Berbintan	Ig	Nilawati Uly, Fadli Fadli, Yuniar Dwi Yanti, Ratnasari Iskandar, Haeril Amir:		
① Ditunda		Dear authors,		
▷ Terkirim		Thank you for sending the revised version of the manuscript. I have completed my evaluati article has been Accepted for Publication in the Multidisciplinary Science Journal.	on. I am pleased to inform you the	at your above-mentioned
Draf ✓ Selengkap	7 pnya	The Copyediting phase of your article is in progress. We will contact you soon. Your article Best regards,	is already mentioned on our web	site: Accepted Articles
Label	+	Dr. Maiko Dantas Editor-in-Chief		
Notes		Multidisciplinary Science Journal		
		Multidisciplinary Science Journal		



Self Care Behavior Models based on Diabetes Self Management Education in Palopo City



Abstract Type 2 diabetes is caused by impaired insulin secretion and insulin resistance. Aspects that play an important role in management. This disease is education about self-management of diabetes. Appropriate self-care behaviors are enough Manage diabetes management and prevent complications improve quality of life. The purpose of this study was to determine the effect of self-care behavior models on diabetes self-management education in type 2 Diabetes Mellitus patients. The method used in this study was a quantitative approach using cross-sectional methods. The sample used was 120 patients with type 2 DM in Palopo City. The analytical method used is the structural equation model using Amos 2.0 and SPSS 20 (IBM Corp). The results of the study showed that self-care behavior in patients with type 2 DM was influenced by 87% of knowledge factors, 83% of motivation factors, 85% of family support factors, and 81% of self-efficacy factors. On the other hand, diabetes management in patients with type 2 DM was influenced 76% by the treatment factor, 89% by the glycemic control factor, 75% by the diet factor, 88% by the physical activity factor, and 62% by the foot care factor. The structural model of this study explains variable self-care behavior with a self-care management rate of 48%. Diabetes management therefore needs to be more proactive in educating people with diabetes so that they and their families can increase their knowledge and understand how diabetes care can be properly administered.

Keywords: self-care behavior, diabetes self-management education, type 2 DM

1. Introduction

1

2

3

4

5

6

7

8

9

Type 2 diabetes is a chronic and complex disease that requires multifactorial behavioral and pharmacological treatments to prevent or delay complications and maintain quality of life (American Diabetes Association 2022)(Davies et al 2022). Type 2 DM is a chronic disease and a global health problem affecting approximately 422 million people worldwide (Khan et al 2019). The global prevalence of diabetes is about 5% for those aged 35-39, 10% for those aged 45-49, 15% for those aged 55-59, and about 15% for those aged 20 and over. 20%. Group from 65 to 69 years old. Southeast Asian countries such as Indonesia, Malaysia, Thailand and Vietnam have risen in the rankings over the past two decades. Due to their large populations, China (88.5 million people with type 2 diabetes), India (65.9 million people) and the United States (28.9 million people) remain the countries with the highest total prevalence of the disease (Saeedi et al 2019).

Based on the 2018 results of the Basic Health Survey (Riskesdas), the prevalence of diabetes in Indonesia in 2013 was 6.9%, of which TGT was 29.9% and GDP was 36.6%. In 2018, there was an increase of 10.9%, including TGT 30.8% and GDP 26.3%. Presence of diabetes was based on age groups: 15-24 years (21.2%), 25-34 years (27.2%), 35-44 years (31.9%), 45-54 years (32.1%). South Sulawesi is one of the Indonesian provinces where the prevalence of diabetes reached 1.2% in 2013 and increased to 1.8% in 2018 (Kementerian Kesehatan RI 2018). The increasing number of people with diabetes indicates that diabetes is a serious public health problem and needs to be a public health priority in Indonesia.

Type 2 diabetes is caused by an unhealthy lifestyle and an unbalanced diet Regulation and lack of physical activity. This influences self-care behavior. Factors that influence self-care behavior are those that originate from the patient himself. i.e.: knowledge, attitudes, motivation, family support, finances, self-efficacy (Putra et al 2020). Other studies have found that behavior has a significant impact on self-care in DM patients. Appropriate self-care behaviors play an important role in managing diabetes, especially in preventing diabetic complications (Bintoro et al 2019). This research is important because the main self-care behaviors that can prevent acute and chronic long-term complications related to diabetes include health eating, regular exercise, medication management, foot care, and adaptation to psychosocial challenges.

The application of self-management is one of the key aspects of the management of type 2 diabetes, including diet, physical activity/exercise, blood glucose monitoring, medication adherence, and self/foot care (Saminan et al 2020). According to Kurniawan, Sari, and Aisyah (2020), out of 123 respondents, 62.6% had low self-management on blood sugar monitoring indicators. Meanwhile, a Chinese study showed a moderate category of self-management behavior in 50.4% of diabetes patients, and 33.6% had low self-management (Kurniawan, Sari and Aisyah, 2020). Considering this, some patients do not still know about self-management in-depth and correctly. Various interventions to improve patients' self-management are carried out in the form of diabetes mellitus self-care and self-management education, but no optimal results have been obtained yet,

37

and many people have not shown independence in managing their disease . The process of health education for individuals or families in managing Diabetes mellitus type 2 is provided by nurses to effectively improve clinical outcomes and quality of life for patients with the Diabetes Self-Management Education (DSME) method (Ernawati et al 2021). Another study states that DSME plays an important role in preventing the progression of neurovascular complications in DM patients whit type 2, thereby helping to reduce the risk of diabetic foot injury. The purpose of this study was to determine the effect of self-care behavior models on diabetes self-management education in type 2 Diabetes Mellitus patients.

36 **2. Materials and Methods**

This type of research is observational correlation with a cross-sectional approach, carried out from August to September 2022 in Palopo City. The variables used in this study are diabetes self-management education as dependent variables, including dietary adjustments, physical activity/exercise, blood sugar monitoring, medication adherence, and self/feet care and the independent variables are self-care behavior, namely knowledge, motivation, family support, and self-efficacy.

The sampling technique was determined using the consecutive sampling technique. The number of samples examined in the research topic was 120 that met the research criteria. The criteria for respondents used as subjects in this study were outpatient type 2 diabetic patients treated in both hospital and community health centers, communicative and aged between 35 and the patient was 60 years old and had a blood glucose level of 71-71. 380 mg/dl and all participants agreed to the study protocol and provided written consent.

46 This study focuses on knowing the correlation between self-care behavior and diabetes self-management education for 47 DM patients with type 2 using a research instrument in the form of a questionnaire. This research questionnaire is divided into 48 three parts, namely the first part is demographic data, the second part is the diabetic management questionnaire to measure 49 self-management using the diabetes self-management questionnaire (DSMQ), including diet regulation, physical 50 activity/exercise, blood sugar monitoring, compliance with medication consumption, and self/foot care (Schmitt et al., 2013) 51 that has been tested for validity and reliability on the value of Alfa Cronbach's 0.709. The third part of the questionnaire about 52 the self-care behavior of DM patients with type 2, namely knowledge, motivation, family support, and self-efficacy (Garcia et 53 al., 2001) that, has been tested for validity and reliability on the value of Alfa Cronbach's 0.792. Information directly from the 54 respondent who agreed to participate filled the informed consent. Respondents were informed that the collected information 55 would be kept confidential and that the questionnaire was anonymous. The researcher gave a sociodemographic questionnaire 56 for attaining respondents' demographic data, a diabetic management questionnaire to measure self-management using the 57 diabetes self-management questionnaire (DSMQ), and a questionnaire about the self-care behavior.

The analysis test used is a linear regression test to determine the relationship between the variable self-care behavior and the diabetes self-management education variable for DM patients with type 2 with a value and significance of <0.05, which is considered significant and looked at the structural model of research using the Structural Equation Model (SEM) with Amos 2.0 and SPSS 20 (IBM Corp).

62 **3. Results** 63

Table 1 Distribution Characteristics of Respondents (n=120)						
Variable	Mean±SD	n (%)				
Gender, n (%)						
Male	-	46 (38,3)				
Female	-	74 (61,7)				
Disease Complications, n (%)						
No complications	-	58 (48 <i>,</i> 3)				
There are complications	-	62 (51,7)				
Ages, Years (±Up to)	50.7±8.41	-				
Long suffering from DM, years (±Up to)	4.8±3.60	-				
Blood sugar while, mg/dL (±Up to)	255.2±44.06	-				

64 65

> 66 67 68

and 6 months. On the other hand, when they were still in the abnormal category, their blood glucose averaged 255.2mg/dL.

hypertension or stroke. The DM type 2 patient's median age is presenile, and her median duration of type 2 diabetes is 4 years

Table 1 shows that the majority of women have type 2 diabetes and often do not have complications such as

Variable	Standardized Loading	C.R.	p*	Description
Self-Care Behavior 🗲 Knowledge	0.043	12.824	0.000	Valid and Reliable
Self-Care Behavior 🗲 Motivation	0.082	11.789	0.000	Valid and Reliable
Self-Care Behavior 🗲 Family Support	0.081	12.646	0.000	Valid and Reliable
Self-Care Behavior → Self Efficacy	0.042	13.615	0.000	Valid and Reliable

2

https://www.malque.pub/ojs/index.php/msj

XXXXX et al. (2023)

DMSE → Treatment	0.426	4 5 5 9	0.000	Valid and Reliable
	0.436	4.558	0.000	Valid and Reliable
DMSE 🗲 Blood sugar control	0.432	5.146	0.000	Valid and Reliable
DMSE →Diet	0.264	4.006	0.000	Valid and Reliable
DMSE 🗲 Physical activity	0.408	5.156	0.000	Valid and Reliable
DMSE 🗲 Foot care	0.097	5.154	0.000	Valid and Reliable

69 70

The data in Table 2 are accepted or declared valid and reliable for all measures, in this case the factors that make up variable self-care behavior and DMSE, because the test results show all p-values for each measure. It shows what you can do. $0.05 (\le 0.05)$ for values below $0.05 (\le 0.05)$, and CR values for each index that constructs self-care behavior and DMSE are greater than $0.07 (\ge 0.07)$. Another determination that the indices that make up fluctuating self-care behaviors and DMSE have been declared valid and reliable is that all stress factor values (standardized loading) are greater than 0.03 (>0.03). All indicators were accepted and declared suitable for measuring various self-care behaviors and DMSE and will be included in the next full model test.

78

Table 3 Test Results of Regression Weight							
Variable	Estimate	<i>p*</i>	Description				
Self Care Behavior 🗲 Knowledge	0.894	0.000	Significant				
Self Care Behavior 🗲 Motivation	0.830	0.000	Significant				
Self Care Behavior 🗲 Family Support	0.852	0.000	Significant				
Self Care Behavior 🗲 Self Efficacy	0.786	0.000	Significant				
DMSE 🗲 Treatment	0.757	0.000	Significant				
DMSE 🗲 Blood sugar control	0.884	0.000	Significant				
DMSE 🗲 Diet	0.629	0.000	Significant				
DMSE 🗲 Physical activity DMSE 🗲 Foot care	0.879 0.542	0.000 0.000	Significant Significant				

79

91

80 Self-care behavior variables are formed by four factors, namely knowledge, motivation, family support, and self-efficacy. 81 From the four factors of the self-care behavior variable, information was obtained that all factors had a significant relationship 82 with the formation of the patient's self-care behavior variable, and it was known that the knowledge factor was the most 83 related factor or played a role in the formation of the patient's self-care behavior variable with p-value (0.000) and the 84 estimated value of the effect is 0.894. So real and strong knowledge plays a role in forming self-care behavior variables. While 85 the DMSE variable is formed by five factors: medication, blood sugar control, diet, physical activity, and foot care. The five 86 DMSE variables provide information that all factors are significantly related to the formation of patient DMSE variables, with 87 glycemic control factors being the factors most strongly related or not involved in education. It is known that We reproduced 88 the patient with his DMSE variable with a p-value (0.000) and an estimated effect size of 0.884. Thus, glycemic control plays an 89 important and powerful role in shaping DMSE variables (Table 3). 90

Table 3 Test Results of Research Hypotheses							
Relationship Between Variables	Estimate	SE	R ²	t	p*		
Self-Care Behavior 🗲 DMSE	0.571	0.197	0.478	2.902	0.000		

93 In table 4, it can be seen that self-care behavior has a significant effect on DMSE of type 2 Diabetes mellitus patients. To see the 94 percentage of the effect is R2 = 0.478, meaning that self-care behavior effect on DMSE by 47.8%, while the remaining 52.2% is the influence 95 of other variables not studied. The overall model validation value can be seen from the goodness of fit value obtained by 0.571 (which tends 96 to be moderate), so this value indicates a good fit between the model and the theory used, namely the theory of Orem.

97

92

98 99 100

4. Discussion

101 In this study, researchers have succeeded in developing components of self-care behavior for DM patients with type 2: 102 knowledge, motivation, family support, and self-efficacy for diabetes self-management education (DMSE). A DM patient has 103 good self-care behavior if he has good knowledge about diabetes and its management, has a positive attitude, gets positive 104 support from family and people around him, has a strong motivation to recover, and has good self-efficacy. The results of this 105 study have proven what components form self-care behavior and how strong the relationship is with DMSE. The 106 implementation of self-care behavior towards DMSE can play an essential role in managing diabetes type 2, including dietary 107 regulation, physical activity/sports, monitoring blood sugar, compliance with medication consumption, and self/foot care 108 (Kumah et al 2021).

109 Improving self-care behaviors is the first step in helping patients better control their disease. It highlights the importance 110 of understanding the factors that influence self-care behavior in diabetic patients and requires the design and strengthening 111 of interventions related to self-care behaviors. Also, it helps caregivers to treat illnesses better and reduce complications (Hailu, 112 Moen and Hjortdahl, 2019). According to the American Association of Diabetes (ADA), people with diabetes need to adopt self-113 care behaviors to improve their quality of life because it is an indicator of diabetes control outcomes while reducing 114 complications related to their disease (Powers et al 2020).

115 According to behavioral theory, self-care behavior in diabetes is an evolutionary process of developing knowledge or 116 awareness by studying survival with the natural complexities of diabetes in a social context. The theory of self-care behavior 117 makes patients have to change their lifestyle to a healthier lifestyle, including diet, physical activity, blood glucose monitoring, 118 and medication adherence with the help and close monitoring of nurses so that it can be carried out properly (Oluma et al 119 2020). Patients with diabetes mellitus who carry out self-care continuously will shape their way of life in preventing, 120 recognizing, and managing their disease so that with the hope that good and sustainable self-care behavior will have a positive 121 impact, namely improving one's welfare. The degree of well-being is due to taking the right treatment according to their 122 condition (Shrivastva et al 2020). Therefore, good self-care behavior can contribute to patients in managing diabetes, especially 123 in preventing diabetes complications through diabetes self-management education.

Previous research stated that social support with patient self-care behavior showed a significant relationship so that diabetes self-management education would be more effective for DM patients with type 2 (Mohebi et al 2018; Fadli et al., 2023). One behavioral intervention that can be applied to DM patients is the Diabetes Self Management Education (DSME) program (Mikhael et al 2020). DSME is an ongoing process to facilitate DM patients' knowledge, skills, and ability to carry out self-care (Hailu 2019). Other studies have shown that DMSE affects knowledge and self-care behavior.

130 5. Conclusions

This study provides evidence that diabetes self-management education is influenced by self-care behaviors in type 2 DM patients. The structural model created in this study can explain more than half of the self-care behavioral variables compared to other uninvestigated variables. Knowledge factors are the most closely associated factors or roles in shaping selfcare behavioral variables in patients with type 2 DM. This means that the more a patient knows about her type 2 DM, the better their self-care behaviors and self-care. Therefore, in the treatment of diabetes, it is necessary to be more active in educating diabetics in order to broaden the knowledge of the patients themselves and their families.

138Ethical considerations139

This research has been approved by the Ethics Committee of Mega Buana University and takes into account the principles inthe research process

143
144Conflict of Interest

The authors declare that they have no conflict of interest.

Funding

142

145 146

147 148

149 This research did not receive any financial support.

References

American Diabetes Association (2022) '6. Glycemic Targets: Standards of Medical Care in Diabetes—2022', Diabetes Care,
45(Supplement_1), pp. S83–S96. doi:10.2337/dc22-S006.

Bintoro T. (2019) 'Illness Perception, Motivation, and Self-Care Behavior in Diabetic Patients', in Promoting Population Mental
 Health and Well-Being. Masters Program in Public Health, Universitas Sebelas Maret, pp. 236–236.
 doi:10.26911/theicph.2019.02.46.

4

161 162

163 Association (ADA) and the European Association for the Study of Diabetes (EASD)', Diabetologia, 65(12), pp. 1925–1966. 164 doi:10.1007/s00125-022-05787-2. 165 166 Ernawati U, Wihastuti TA, Utami YW. (2021) 'Effectiveness of Diabetes Self-Management Education (Dsme) in Type 2 Diabetes 167 Mellitus (T2Dm) Patients: Systematic Literature Review', Journal of Public Health Research, 10(2), p. jphr.2021.2240. 168 doi:10.4081/jphr.2021.2240. 169 170 Fadli, F. et al. (2023) 'Factors Associated with Self-Management Behaviour among Type 2 Diabetes Mellitus Patients', Gaceta 171 Médica de Caracas, 131(2), pp. 287–292. doi:10.47307/GMC.2023.131.2.4. 172 173 Garcia, A.A. et al. (2001) 'The Starr County Diabetes Education Study', Diabetes Care, 24(1), pp. 16-21. 174 doi:10.2337/diacare.24.1.16. 175 176 Hailu FB, Moen A, Hjortdahl P. (2019) 'Diabetes Self-Management Education (DSME) – Effect on Knowledge, Self-Care Behavior, 177 and Self-Efficacy Among Type 2 Diabetes Patients in Ethiopia: A Controlled Clinical Trial', Diabetes, Metabolic Syndrome and 178 Obesity: Targets and Therapy, Volume 12, pp. 2489–2499. doi:10.2147/DMSO.S223123. 179 180 Khan MAB. (2019) 'Epidemiology of Type 2 Diabetes – Global Burden of Disease and Forecasted Trends', Journal of 181 Epidemiology and Global Health, 10(1), p. 107. doi:10.2991/jegh.k.191028.001. 182 183 Kumah E. (2021) 'Diabetes self-management education interventions in the WHO African Region: A scoping review', PLOS ONE. 184 Edited by L.-L. Lim, 16(8), p. e0256123. doi:10.1371/journal.pone.0256123. 185 186 Kurniawan T, Sari CWM, Aisyah I. (2020) 'Self Management Pasien Diabetes Melitus dengan Komplikasi Kardiovaskular dan 187 Implikasinya terhadap Indikator Klinik', JURNAL PENDIDIKAN KEPERAWATAN INDONESIA, 6(1). doi:10.17509/jpki.v6i1.18256. 188 189 Mikhael EM, Hassali MA, Hussain SA. (2020) 'Effectiveness of Diabetes Self-Management Educational Programs For Type 2 190 Diabetes Mellitus Patients In Middle East Countries: A Systematic Review', Diabetes, Metabolic Syndrome and Obesity: Targets 191 and Therapy, Volume 13, pp. 117–138. doi:10.2147/DMSO.S232958. 192 193 Mohebi S.. (2018) 'Relationship between perceived social support and self-care behavior in type 2 diabetics: A cross-sectional 194 study', Journal of Education and Health Promotion, 7(1), p. 48. doi:10.4103/jehp.jehp_73_17. 195 196 Oluma A. (2020) 'Predictors of Adherence to Self-Care Behavior Among Patients with Diabetes at Public Hospitals in West 197 Ethiopia', Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, Volume 13, pp. 3277–3288. 198 doi:10.2147/DMSO.S266589. 199 200 Powers MA. (2020) 'Diabetes Self-management Education and Support in Adults With Type 2 Diabetes: A Consensus Report of 201 the American Diabetes Association, the Association of Diabetes Care & amp; Education Specialists, the Academy of Nutrition 202 and Dietetics, the American Acad', Diabetes Care, 43(7), pp. 1636–1649. doi:10.2337/dci20-0023. 203 204 Putra MM. (2020) 'Self Care Behaviour of the Diabetic Patients in a Primary Health Center in Bali', Indian Journal of Public 205 Health Research & Development, 11(1), p. 1229. doi:10.37506/v11/i1/2020/ijphrd/194009. 206 207 Kemenkes RI. (2018) 'Hasil Utama Riset Kesehatan Dasar Tahun 2018'. Jakarta: Badan Penelitian dan Pengembangan 208 Kesehatan. 209 210 Saeedi P.(2019) 'Global and regional diabetes prevalence estimates for 2019 and projections for 2030 and 2045: Results from 211 the International Diabetes Federation Diabetes Atlas, 9th edition', Diabetes Research and Clinical Practice, 157, p. 107843. 212 doi:10.1016/j.diabres.2019.107843. 213 214 Saminan S. (2020) 'The Relationship Between Diabetes Self-Management and Blood Glucose Control in Patients With Type 2 215 Diabetes Mellitus in Ulee Kareng Subdistrict, Banda Aceh', The International Journal of Tropical Veterinary and Biomedical 216 Research, 5(2), pp. 40–49. doi:10.21157/ijtvbr.v5i2.20487. 217

Davies MJ (2022) 'Management of hyperglycaemia in type 2 diabetes, 2022. A consensus report by the American Diabetes

- Schmitt A. (2013) 'The Diabetes Self-Management Questionnaire (DSMQ): development and evaluation of an instrument to
 assess diabetes self-care activities associated with glycaemic control', *Health and Quality of Life Outcomes*, 11(1), p. 138.
 doi:10.1186/1477-7525-11-138.
- 221

222 Shrivastva A. (2020) 'A study on knowledge and self-care practices about Diabetes Mellitus among patients with type 2 Diabetes

- 223 Mellitus attending selected tertiary healthcare facilities in coastal Karnataka', Clinical Epidemiology and Global Health, 8(3),
- 224 pp. 689–692. doi:10.1016/j.cegh.2020.01.003.