APPENDIX A

Informed Consent Form

Dear patients,

My name is Rosmawati Mohamed. I am a tutor at Nursing Education Unit of University Science Malaysia, of health Sciences. Now, I am a Master student of Nursing Science of Advanced Nursing Program in Prince of Songkla University, Thailand. I am conducting a nursing research project to examine the health education of diabetes mellitus among of type II patients. If you agree to participate, you will be asked to complete the demographic and self-care practice questionnaire, and will take time about 20-30 minutes. Please do not hesitate to ask me if you find difficulties in understanding each item.

This study will bring no harm to you or your family. The information gathered will be used to write report and remain confidentiality. Yours answers and your personal identity will be revealed in the reports of the study. However, it will depend on you whether you participate or not. Your refusal will not have any effect on the treatment or nursing care to you. Even during the processes, you have the right to withdraw at any time or neglect each item that you would not like to answer. All of your information will only be used for the purpose of this study. Your signature in this form will indicate that you understand this form and are willing to participate in this study.

Name of Participant	Signature	Date
Name of Researcher	Signature	Date

If you still have questions or need more information, you can contact me at the following address:

Nursing Education Unit
University Sains Malaysia, School of Health Sciences
Kubang Kerian, Kelantan.

Phone (013-9386893), email: maniq04@hotmail.com

Master of Nursing Science in Adult Nursing International Program, Faculty of Nursing Prince of Songkla University Hat Yai Songkla Thailand 90112

APPENDIX B

Demographic and Health Information Form

		Code:
	D	ate/Time:
	nt comprised of demographic and h √" in the box "□" next to the answ	nealth information data. Please, fill wer you have selected.
1. Age :	years months.	
2. Gender	□ (1) Male	☐ (2) Female
3. Religion	□ (1) Islam	☐ (2) Christian
	☐ (3) Hindu	☐ (4) Buddhism
4. Level of education	☐ (1) No formal education	☐ (2) Elementary School
	☐ (3) Junior High School	☐ (4) Senior High School
	☐ (5) College or above	
5. Marital status	☐ (1) Single	☐ (2) Married
	☐ (3) Widow	☐ (4) Divorced
6. Occupation	☐ (1) None	☐ (2) Retirement
	☐ (3) Farmer	☐ (4) Self-employment
	☐ (5) Private employment	☐ (6) Government
		employment
7. Income : Ringgit	/month	
8. Duration of having diab	etes:	years.

9. ′	Treatments received, you can select more than one:						
	☐ (1) Oral medications	☐ (2) Diet					
	☐ (3) Oral medications and diet	□ (4) Other					
10.	Last blood glucose levelmg						

Diabetes Self-Care Practice Questionnaire

Instruction: The following items are used to measure your self-care practice. The score range from 1 to 6. Please choose the item that most corresponds to you (6 is the most and 1 is the least). Use a pen or pencil to make a cross (X) on top of the number you choose for each item.

	Least				M	ost
1. How do you seek information on dietary control?	1	2	3	4	5	6
2. How do you seek knowledge on types of food that you should consume?	1	2	3	4	5	6
3. How do you seek knowledge on the appropriate amount of food for each meal?	1	2	3	4	5	6
4. How do you practice choosing low fat food for each meal?	1	2	3	4	5	6
5. How do you practice on adjusting the amount of food?	1	2	3	4	5	6
6. How do you practice changing types of food for each meal?	1	2	3	4	5	6
7. How do you practice appropriate methods of preparing food or cooking?	1	2	3	4	5	6
8. How do you practice reducing carbohydrate for each meal?	1	2	3	4	5	6

9. How do you practice increasing the amount of vegetables for each meal?	1	2	3	4	5	6
10. How do you seek knowledge on the significance of exercise on controlling your diabetes?	1	2	3	4	5	6
11. How do you seek knowledge on your appropriated types of exercise?	1	2	3	4	5	6
12. How do you seek knowledge on your appropriated amount of exercise?	1	2	3	4	5	6
13. How do you adjust to the recommended exercise program in your schedule?	1	2	3	4	5	6
14. How do you practice adjusting your amount of exercise?	1	2	3	4	5	6
15. How do you practice selecting the better types of exercises?	1	2	3	4	5	6
16. How do you control exercise intensity according to your appropriateness?	1	2	3	4	5	6
17. How do you practice the appropriated type of exercise?	1	2	3	4	5	6
18. How frequent do you exercise?	1	2	3	4	5	6
19. How do you seek knowledge on the significance of medication on controlling your blood sugar?	1	2	3	4	5	6

20. How do you seek knowledge on your medications and their side-effects?	1	2	3	4	5	6
21. How do you seek knowledge on managing your medication regimen?	1	2	3	4	5	6
22. How do you practice adjusting how to take daily medication regimen?	1	2	3	4	5	6
23. How do you practice adjusting the doses of your medication?	1	2	3	4	5	6
24. How do you adjust ways to prevent the side effects of your medication?	1	2	3	4	5	6
25. How do you practice taking medication on your own?	1	2	3	4	5	6
26. How do you practice managing the side effects of your medication?	1	2	3	4	5	6
27. How do you seek information on the effects of stress?	1	2	3	4	5	6
28. How do you seek knowledge on managing your stress?	1	2	3	4	5	6
29. How do you seek knowledge on assessment of your stress level?	1	2	3	4	5	6
30. How do you modify with your coping strategy?	1	2	3	4	5	6

31. How do you modify your resources for stress management?	1	2	3	4	5	6
32. How do you modify the ways to reduce your stress?	1	2	3	4	5	6
33. How frequent do you practice stress management.	1	2	3	4	5	6
34. How do you examine your stress level?	1	2	3	4	5	6
35. How do you know how to manage when stress occurs?	1	2	3	4	5	6
36. How do you seek knowledge on the importance of having good personal hygiene?	1	2	3	4	5	6
37. How do you seek knowledge on managing your personal hygiene for preventing diabetes complications?	1	2	3	4	5	6
38. How do you practice adjusting your routine for good personal hygiene?	1	2	3	4	5	6
39. How do you pay attention on your personal hygiene?	1	2	3	4	5	6
40. How do you adjust yourself for better oral care?	1	2	3	4	5	6

41. How do you adjust yourself for better	1	2	3	4	5	6
care of your feet?						
42. How do you practice your perineal care?	1	2	3	4	5	6
43. How do you practice your oral care?	1	2	3	4	5	6
44. How do you practice taking care of	1	2	3	4	5	6
your feet?						

APPENDIX C

Pre-test and Post-test Self-Care Practice Scores

Table 3

Mean and standard deviation of pre-test and post-test self-care practice scores by item.

		Control group					Experimen	ntal group	
		Pre	-test	Post-tes	it	Pre	-test	test Post-	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
	Dietary control								
1.	How do you seek information on dietary control?	2.87	1.22	2.87	1.33	1.80	0.88	4.13	0.77
2.	How do you seek knowledge on types of food that you should consume?	2.93	1.50	3.17	1.41	1.90	0.80	4.20	0.76
3.	How do you seek knowledge on the appropriate amount of food for each meal?	2.80	1.50	3.03	1.27	2.07	0.94	4.23	0.67

Table 3 (Continued)

			Contro	group			Experimen	ntal group		
		Pre-	test	Post-tes	at .	Pre-test	test Po		test	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD	
4.	How do you practice choosing low fat food for each meal?	2.97	1.27	2.90	1.21	2.00	1.08	4.20	0.66	
5.	How do you practice on adjusting the amount of food?	2.70	1.14	2.70	1.11	1.73	0.78	4.07	0.69	
6.	How do you practice changing types of food for each meal?	2.90	1.06	2.77	1.07	1.80	0.99	4.03	0.71	
7.	How do you practice reducing carbohydrate for each meal?	2.50	1.30	2.60	1.22	1.67	0.92	4.00	0.69	
8.	How do you practice increasing the amount of vegetables for each meal?	2.83	1.39	2.77	1.35	1.87	0.76	4.03	0.66	

Table 3 (Continued)

			Contro	ol group		· ••	Experime	ntal group	***
		Pre	-test	Post-te	st-test Pre-test		Post	-test	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
9.	How do you practice increasing the amount of vegetables for each meal?	3.43	1.54	3.33	1.47	2.03	0.92	4.17	0.74
	Exercise								
10.	How do you seek knowledge on the significance of exercise on controlling your diabetes?	3.70	1.55	3.63	1.56	2.53	1.38	4.60	0.85
11.	How do you seek knowledge on your appropriate types of exercise?	2.77	1.35	2.73	1.14	1.87	1.16	4.23	0.85
12.	How do you seek knowledge on your appropriated amount of exercise?	2.73	1.25	2.80	1.12	1.63	0.85	4.17	0.83

Table 3 (Continued)

			Contro	ol group			Experime	ental group		
		Pre	test	Post-te	st	Pre	-test	Post	-test	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD	
13.	How do you adjust to the recommended exercise program in your schedule?	2.50	1.33	2.57	1.33	1.50	0.77	4.07	0.82	
14.	How do you practice adjusting your amount of exercise?	2.33	1.32	2.40	1.27	1.70	0.83	4.07	0.82	
15.	How do you practice selecting the better types of exercises?	2.80	1.42	2.60	1.30	1.70	0.91	4.17	0.87	
16.	How do you control exercise intensity according to your appropriates?	2.13	1.16	2.23	1.19	1.60	0.77	4.10	0.80	
17.	How do you practice the appropriated type of exercise?	2.57	1.19	2.70	1.23	1.63	0.85	4.07	0.78	

Table 3 (Continued)

			Contro	ol group		-	Experim	ental group	
		Pre	-test	Post-te	est	Pre	-test	Post	-test
.		Mean	SD	Mean	SD	Mean	SD	Mean	SD
18.	How frequent do you exercise?	2.70	1.39	2.60	1.30	1.83	0.91	4.17	0.87
	Medication taki	ing							
19.	How do you seek knowledge on the significance of medication on controlling your blood sugar?	3.33	1.44	3.53	1.33	2.17	1.28	4.63	0.80
20.	How do you seek knowledge on your medications and their side-effects?	3.13	1.57	3.07	1.55	2.13	1.57	4.53	0.77
21.	How do you seek knowledge on managing your medication regimen?	21.	1.55	3.70	1.41	2.53	1.71	4.77	0.81

Table 3 (Continued)

			Contro	ol group			Experime	ental group	
		Pre	-test	Post-te	est	Pre	-test	Post	-test
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
22.	How do you practice adjusting how to take daily medication regimen?	4.33	1.37	4.13	1.25	3.27	1.85	5.10	0.84
23.	How do you practice adjusting the doses of your medication?	4.33	1.42	4.17	1.23	3.10	2.02	4.97	0.80
24.	How do you adjust ways to prevent the side effects of your medication?	3.13	1.61	3.03	1.62	1.97	1.24	4.63	0.66
25.	How do you practice taking medication on your own?	4.47	1.71	4.33	1.56	4.50	1.77	5.67	0.66
26.	How do you practice managing the side effects of your medication?	3.50	1.77	2.77	1.47	2.30	1.57	4.80	0.84

Table 3 (Continued)

			Contr	ol group			Experim	ental group	
		Pre	-test	Post-t	est	Pro	e-test	Pos	t-test
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
27.	How do you seek information on the effects of stress?	2.30	1.44	2.30	1.41	1.37	0.66	3.83	0.83
28.	How do you seek knowledge on managing your stress?	2.40	1.54	2.17	1.36	1.30	0.53	3.63	0.80
29.	How do you seek knowledge on assessment of your stress level?	1.97	1.40	1.90	1.21	1.37	0.66	3.77	0.85
30.	How do you modify with your coping strategy?	1.90	1.26	1.83	1.11	1.27	0.45	3.60	0.72
	Stress management								
31.	How do you modify your resources for stress management?	1.90	1.32	1.90	1.24	1.40	0.56	3.60	0.72

Table 3 (Continued)

			Contro	ol group			Experim	ental group	
		Pre	-test	Post-te	est	Pre	-test	Post	-test
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
32.	How do you modify the ways to reduce your stress?	2.17	1.46	2.03	1.35	1.47	0.57	3.73	0.82
33.	How frequent do you practice stress management?	1.90	1.24	1.77	1.19	1.47	0.57	3.70	0.70
34.	How do you examine your stress level?	2.10	1.42	1.97	1.32	1.27	0.45	3.73	0.74
35.	How do you know how to manage when stress occurs?	2.10	1.37	2.00	1.17	1.40	0.56	3.67	0.71
	Personal hygiene								
36.	How do you seek knowledge on the importance of having good personal hygiene?	4.13	1.38	3.97	1.29	3.03	1.90	4.97	0.89

Table 3 (Continued)

			Contro	ol group			Experime	ental group	. .
		Pre	-test	Post-te	st	Pre	-test	Post	-test
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
37.	How do you seek knowledge on managing your personal hygiene for preventing diabetes complications?	4.03	1.60	3.97	1.49	2.77	1.83	4.97	0.80
38.	How do you practice adjusting your routine for good personal hygiene?	4.00	1.14	3.90	1.37	3.33	1.82	5.17	0.83
39.	How do you pay attention on your personal hygiene?	4.47	1.25	4.37	1.29	3.60	1.88	5.27	0.86
40.	How do you adjust yourself for better oral care?	4.10	1.64	4.27	1.57	2.40	1.79	5.10	0.99

Table 3 (Continued)

			Contro	ol group			Experime	ental group	
		Pre	-test	Post-te	st	Pre	-test	Post	-test
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
41.	How do you adjust yourself for better care of your feet?	4.43	1.54	4.47	1.50	3.07	1.72	5.13	1.04
42.	How do you practice your perineal care?	4.27	1.63	4.33	1.58	3.50	1.71	5.40	0.77
43	How do you practice your oral care?	3.87	1.65	4.07	1.57	3.00	1.70	5.33	0.80
44.	How do you practice taking care of your feet?	4.17	1.53	4.17	1.44	3.53	1.75	5.27	0.82

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Frequency and percentage of pre-test and post-test self-care practice score by items (n = 60) Table 3

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	•			-				d de la contraction de la cont		Post-test	194					Pre-test	est					Post-test	ts o		ļ
	-			Pre-test	<u>3</u>					Frequency						Frequency	incy					Frequency	ncy		
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		*	*	8	.	R	R	L																	
	Dietary control																								
÷	How do you seek information on	3 10.0	9	12	6.7	3	3.3	6 20.0	13.3	13	3	3	3.3	14	30.0	6 20.0	3.3	ı	1	ŀ	,	20.0 5	15 50.0 2	8 26.7	3.3
	dietary control?																								
	-	q	•		ĸ	m	63	4	7	າດ	10	Ø	61	01	14	2	-	ı	,	ı				a (- ;
ાં	How do you seek knowledge on types of food that you	20.0	23.3	23.3	16.7	10.0	6.7	13.3	23.3	16.7	33.3	6.7	6.7	33.3	46.7	16.7	3.3					16.7	20.0	0.0	6.5 6.5
	should consume?																								
c	7 ee e e e e e e e e e e e e e e e e e	-	4	10	φ	67		4	9	G.	œ	81	1	10	10	œ	81	•	ι	ı	ı		12	11	,
ó	knowledge on the	23.3	13.3	33.3	20.0	10.0		13.3	20.0	30.0	26.7	6.7	က က	33.3	33.3	26.7	6.7					6.51			
	appropriate amount																								
	of food for each meal?																								
			•		•	¢		4	•	10		-	F4	10	14	4	-	1	-	t	1	8		- -	-
÷	How do you practice choosing low fat	13.3	20.0	40.0	13.3	10.0	3.3	13.3	23.3	33.3	23.3	8. 83	3.3	33.3	46.7	13.3	3.3		3.3			10.0	63.3	23.3	8.3
	food for each meal?																								90

				P	Pre-test		Contro	Control Group		Post	Post-test					{	Pre-test	33 33	Experimental Group	ul Group		8	Post - test		
				Freq.	Frequency					Frequency	iency					Fre	Frequency					F	Frequency		
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	on adjusting the amount of food?	16.7	26.7	33.3	16.7	6.7		16.7	23.3	40.0	13.3	6.7		43.3	3 43.3	3 10.0	3.3					20.0	53.3	26.7	
	How do you practice	4	9	თ	11	ı	ı	ນ	ص	13	9	7	1	15	63	က	ო	ı	1	1	•		r3	a 0	•
	changing types of food for each meal?	13.3	20.0	30.0	36.7			16.7	16.7	43.3	20.0	3.3		50.0	30.0	0 10.0	0 10.0	_				23.3	50.0	26.7	
	How do you practice	10	~	¢.	rò	63	,	2	1	ø,	ın	81	,	17	•	က	81	ı	,	1	•	7	16	~	•
	reducing carbohydrate for each meal?	13.3	13.3	30.0	16.7	6.7		23.3	23.3	30.0	16.7	6.7		56.7	7 26.7	7 10.0	6.7					83. 8.	53.8	න න ද	
	How do you practice	7	ю	œ	7	63	r 4	æ	ಣ	11	4	•	•	11	12	۲-	1	ŀ	ı	1	,	9	11	-	,
	increasing the amount of vegetables for each meal?	23.3	16.7	26.7	8. 8.	6.7	භ	26.6	10.0	36.7	13.3	13.3		36.7	7 40.0	0 23.3	m					20.0	56.7	හ. භ	

Table 3 (cont)

							Control Group	dnou		:						į		Exp	Experimental Group	Group					
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	for each meal?																								
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5	Exercise	•	•	q	c	,	u	,	•	•	•	v		o	o	•		c				;			
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	knowledge on the	10.0	13.3	20.0	26.7	13.3	16.7	13.3	10.0	20.0	26.7	16.7	13.3	26.7	26.7	30.0	3.3	10.0	3.3		6.7	43.3	33.3	3 16.7	_
	significance of																								
	exercise on																								
	controlling your																								
	diabetes r																								
11.	How do you seek	10	01	7	4	က		ო	12	∞	4	က		14	==	87	ı	83		•		13	Ø.	61	
	knowledge on your	16.7	33.3	23.3	13.3	10.0	3.3	10.0	40.0	26.7	13.3	10.0		46.7	36.7	6.7		6.7	3.3		6.7	43.3	30.0	6.7	
	appropriate types of																								
	exercise?																								
12.	How do you seek	4	-	∞	4	8	1	8	10	10	₩.	8	,	17	00	4	ı		ı	,	6	15	7	ca .	
	knowledge on your	13.3	36.7	26.7	13.3	6.7	3.3	10.0	33.3	33.3	13.3	10.0		56.7	26.7	13.3		3.3			20.0	0.09	23.3	1 6.7	
	appropriated amount																								
	of exercise?																					ļ			- 1

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	to the	30.0	20.0	33.3	3.3	13.3		7.97	20.0	36.7	6.7	6.7	3.3	63.3	26.7	6.7	3.3				. 4	26.7	43.3 2	7.97	8. 3.3
	recommended																								
	exercise program in your schedule?																								
-	How do you	10	æ	3 0		₩.		91	::	20	4	84		15	9	~	-					90	£13	30	_
	practive adjusting	33.3	26.7	26.7		13.3		33.3	20.0	26.7	13.3	6.7		50.0	33.3	13.3	£.				₩.	26.7	43.3	26.7	3.3
	your unrount of exercise?																								
15.	How do you	7	7	9	ťΩ	ĸ		7	G	9	'n	'n		16	on.	m	2					7	3	œ	co.
	practice selecting the better types of exercises?	23.3	23.3	20.0	16.7	16.7		23.3	30.0	20.0	16.7	10.0		53.3	30.0	10.0	6.7				**	23.3	43.3	26.7	6.7
16.	How do you	13	~	7	m	-			o	7	34	8		17	∞	s:						9	17	2	64
	control exercise intensity according	40.0	23.3	23.3	10.0	3.3		33.3	30.0	23.3	6.7	6.7		56.7	26.7	16.7						20.0 5	56.7	16.7	6.7
	in your appropriates?																								

	, ,						Control Group	dno										ញ	Experimental Group	al Group		p		
	- 1			Pre-test	Est					Post-test	lest					F F	Pre-test Frequency					Frequency	3	
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How do you		9	11	4	æ	-	1	ĸ	10	7	ιĠ	69	ı	17	••	4		•	•	1	1	18	4	64
practice the appropriated type of exercise?		20.0	36.7	13.3	26.7	8. 8.		16.7	33.3	23.3	16.7	10.0		56.7	26.7	13.3	င် င				20.0	0.09 0.	13.3	6.7
How frequent do		ر د د	es (10.0	ادر در	es (11 . 5			4 0	1	14	90 y	7 6		t	ı	ř	9 0	16	5 8 6	ນ (
you exercise? Medication taking		7:91	4. 6.		7.01	9		0.00		0.00	2	?			3	?	2				2			
How do you seek		•	ro.	9	œ	4	ÇQ	1	∞			י מו	84 .	13	7	e (φ g	- ;	ı	•				, e
knowledge on the significance of medication on controlling your blood sugar?		ત્ર હ	16.7	20.0	30.0	တ တ	r. 9	က က	26.7	ະ. ຄ.	8. 8.	16.7		. 8. 8.	85 85 87	10.0	20.0	ည် က			n n	2	n n	10:4
How do you seek		9	9	22	ĸ	7		ų	ស	a 0	9	81	n	14	10	63	03	81	1	•	-			₩
knowledge on your medications and their side-		20.0	20.0	16.7	16.7	23.3	8. 5.	20.0	16.7	26.7	20.0	6.7	10.0	46.7	33.3	6.7	6.7	6.7			8.8	53.3	30.0	13.3
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The control of the								Control Group	dno.										Exp	Experimental Group	Group				
Frequency Freq					Pre-b	cst					Post-1	159		}			Pre-te	st					Post-test		
How do you make to the first state of the first state of the first state of your make first state of your your your your your your your your					Freque	icy					Freque	ncy					Freque	ıcy					Frequency		
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How do you need, 4 4 6 2 10 7 3 3 2 3 10 0 10 15.3 10 7 2 3 1 1 7 2 11 8 3 4 7 10 13.3 13.3 13.3 13.3 13.3 13.3 13.3 1			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*
How do you making medication regiment 4														Ī											9
managing your medication regiment 13.3 18.3 6.7 18.3 10.0 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 10.0 13.3 13.3	21.		4	4	89	10	2	m	60	•	60	11	7	69	11	œ	m	*	1	•		-	11	12	20.0
medication regiment? How do you precise - 4 4 8 6 8 - 6 5 11 8 4 8 6 6 4 9 9 9 adjusting bow to see a same and seed of		knowledge on	13.3	13.9	6.7	33.3	23.3	10.0	10.0	13.3				6.7	36.7	26.7		13.3	~	13.3		8. 8.	36.7	40.0	
How do you practice - 4 4 8 6 8 - 5 2 11 8 4 6 6 5 2 6 4 9 9 9 adjusting how to practice - 4 4 8 6 8 - 6 8 - 6 7 11 8 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1		managing your																							
How do you practice - 4 4 4 8 6 6 8 - 6 5 7 16.7 56.7 13.3 26.7 15.3 26.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 1		medication regimen?																							
Adjusting how to subtraction regimen? How do your practices 3.3 10.0 28.3 16.7 20.0 28.7 16.7 6.7 18.7 26.7 18.3 28.7 18.3 28.7 18.7 18.7 28.7 18.3 28.7 18.7 28.7 18.7 28.7 18.7 20.0 18.3 28.3 18.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 18.7 28.7 28.7 18.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 2	22.	How do you practice	1	4	4	∞	9	30	,	ō	81	::	*	4	90	ιo	63	ю	9	4		1	a	œ	12
big design medication regimen? 1 3 4 6 9 7 1 2 6 11 3 11 4 1 5 3 6 - - 10 11 How do you practice 1 3 4 6 9 7 1 2 5 8 11 4 1 5 3 6 - - 10 11 wijsting the doesa 3.3 10.0 13.3 6.7 16.7 26.7 10.0 36.7 13.3 3.3 16.7 16.7 26.7 36.7 10.0 3.3 6.7 16.7 26.7 36.7 13.3 3.3 6.7 11 46.7 30.0 10.0 3.3 6.7 13 46.7 30.0 10.0 3.3 46.7 46.7 30.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0		adjusting how to		13.3	13.3	26.7	20.0	26.7		16.7				13.3	26.7	16.7				13.3			30.0	30.0	60.0
How do you practice 1 3 4 6 9 7 1 1 2 5 8 111 3 111 4 1 5 3 6 7 10 111 adjusting the doses 3.3 10.0 13.3 20.0 30.0 23.3 3.3 6.7 16.7 26.7 36.7 10.0 36.7 13.3 3.3 16.7 10.0 20.0 36.7 13.3 3.3 16.7 10.0 20.0 36.7 13.3 3.3 16.7 10.0 20.0 38.3 38.7 36.7 10.0 36.7 13.3 3.3 16.7 10.0 20.0 30.0 33.3 36.7 13.3 3.3 16.7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10		take daily medication																							
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adjusting the dozes 3.3 10.0 13.3 20.0 30.0 23.3 6.7 16.7 26.7 36.7 10.0 36.7 13.3 3.3 16.7 10.0 20.0 20.0 33.3 36.7 36.7 of your medication? How do you practice 3 2 3 4 6 12 2 5 5 6 7 16.7 23.3 3.0 6.7 15.7 16.7 23.3 3.0 6.7 16.7 16.7 23.3 3.0 6.7 16.7 16.7 23.3 3.0 6.7 16.7 16.7 16.7 23.3 3.0 6.7 16.7 16.7 16.7 18.7 18.7 23.3 30.0 13.3 3.3 6.7 16.7 16.7 16.7 18.7 18.7 18.7 18.7 23.3 30.0 13.3 3.3 6.7 16.7 18.7 18.7 18.7 18.7 18.7 23.3 30.0 13.3 3.3 6.7 16.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18	23	How do you practice	-	က	4	9	0	-	-	61	w	æ	11	6 0	11	4	, - 4	NO.	თ	9		1	10	11	a
of your medication? How do you adjust 6 7 3 7 5 2 7 7 3 5 7 1 1 14 9 3 3 - 1 14 13 ways to prevent the 20.0 23.3 16.7 6.7 23.3 23.3 10.0 16.7 23.3 3.3 46.7 30.0 10.0 10.0 3.3 46.7 45.3 46.7 43.3 side effects of your medication? How do you practice 3 2 3 4 6 12 2 2 5 5 5 7 1 1 1 2 5 5 113 3 4 4 14.1 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16		adjusting the doses	3.3	10.0	13.3	20.0	30.0	23.3	3.3					10.0	36.7	13.3				20.0			33.3	36.7	30.0
How do you adjust 6 7 3 7 5 2 7 7 7 3 5 7 1 1 14 9 3 3 - 1 1 14 13 3 4 6 7 30.0 10.0 10.0 23.3 16.7 6.7 23.3 23.3 10.0 16.7 23.3 3.3 46.7 30.0 10.0 10.0 10.0 3.3 46.7 43.3 side effects of your medication? How do you practice 3 2 3 4 6 12 2 5 5 7 16.7 16.7 18.7 23.3 30.0 13.3 3.3 6.7 16.7 16.7 16.7 18.7 18.7 18.7 23.3 30.0 13.3 3.3 6.7 16.7 16.7 16.7 16.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18		of your medication?																							
ways to prevent the 20.0 23.3 16.7 8.7 8.7 8.9 16.0 16.7 23.3 23.3 10.0 16.7 23.3 3.3 46.7 30.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	24.	How do you adjust	æ	7	က	7	ĸ	67	-	~	n	ĸ	-	1	71	a	က	n		-		,	14	13	က
side effects of your medication? medication? How do you practice 3 2 3 4 6 12 2 5 5 7 9 4 1 2 5 5 13 3 4 14 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7		ways to prevent the	20.0	23.3	10.0	23.3	16.7	6.7						3.3	46.7	30.0		10.0		3.3			46.7	43.3	10.0
medication? How do you practice 3 2 3 4 6 12 2 2 5 5 7 9 4 1 2 5 5 13 3 4 stable and a single and a sin		side effects of your																							
How do you practice 3 2 3 4 6 12 2 2 5 5 7 9 4 1 2 5 5 13 3 4 taking medication on 10.0 6.7 10.0 13.3 20.0 40.0 6.7 16.7 16.7 16.7 23.3 30.0 13.3 3.3 6.7 16.7 16.7 43.3 10.0 13.3 your own?		medication																							
10.0 6.7 10.0 13.3 20.0 40.0 6.7 6.7 16.7 16.7 23.3 30.0 13.3 3.3 6.7 16.7 16.7 43.3 10.0 13.3	25.	How do you practice	ო	81	69	4	9	12	63	8	כיו	VO.	-	Os.	4	H	8	ĸ	Ŋ	13		٠	က	•	83
		taking medication on	10.0	6.7	10.0	13.3	20.0	40.0	6.7					30.0	13.3	3.3				£3.3			10.0	13.3	76.7
		your own?																							9.5

Frequency Freq								Control Group	roup										ш	Experimental Group	al Group				
Frequency Operation of the Grant Managing the side of your medication of the Grant Managing the side of your medication of the Grant Managing the side of your medication of the Grant Managing the side of your medication of the Grant Managing the side of the Grant Managing the Gr					Pre-	test					Post	-lest					Pre	·test					Post-less	75	
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ceffects of your 2.0.0 13.3 20.0 16.7 16.7 20.0 35.3 16.7 16.7 6.7 6.7 6.7 43.3 23.3 13.3 effects of your Stress management How do you seek 11 9 4 4 - 2 11 8 6 3 - 2		low do you practice	9	4	4	9	ю	ıa	9	10	w	4	8	64	13	7	4	84	81	89	,		11	11	7
Stress management 11 9 4 4 - 2 11 8 6 3 - 2 21 8 - How do you seek 11 9 4 4 - 2 11 8 6 3 - 2 21 8 - effects of stress! 35.7 36.7 36.7 26.7 20.0 10.0 6.7 70.0 26.7 70.0 26.7 stress! 13 4 6 3 3 1 14 4 8 2 1 1 2 7 1 how do you seek 13.3 13.3 20.0 10.0 3.3 46.7 13.3 26.7 6.7 3.3 3.3 73.3 23.3 3.3 how do you seek 16 7 3 1 2 1 1 2 2 2 2 2 2 2 3 3 3 3<	c 5 E	managing the side iffects of your nedication?	20.0	13.3	13.3	20.0	16.7	16.7	20.0	83.8	16.7	16.7	6.7	6.7	43.3	23.3	13.3	6.7	6.7	6.3		છ. હ	36.7	36.7	8 8 8
How do you seek 11 9 4 4 - 2 11 8 6 3 - 2 2 1 8 - 2 1 1 6 1 6 1 7 36.7 26.7 20.0 10.0 6.7 70.0 26.7 26.7 steas level? How do you seek 12 13 13.3 13.3 13.3 13.3 13.3 13.3 13.	S	iress management																							
ciffcets of stress? 36.7 36.7 26.7 26.0 10.0 6.7 70.0 26.7 ciffcets of stress? stress? 4 6 3 3 1 4 8 2 1 1 2 7 1 How do you seek 15 4 6 3 3 1 14 4 8 2 1 1 2 7 1 knowledge on 43.3 13.3 20.0 10.0 10.0 3.3 46.7 13.3 26.7 6.7 3.3 3.3 73.3 3.3 How do you seek 16 7 3 1 2 1 15 9 2 2 2 7 1 How do you seek 16 7 3 1 2 1 15 9 2 2 2 2 2 3 3 3 Secsessment of your 3 3 3 3 3		low do you seek	::	3 3	₩	4	1	81	11	00	9	ო	1	81	21	œ	ı	Ħ	1		1	12	12	10	-
How do you seek 13 4 6 3 3 1 1 14 4 8 2 1 1 1 22 7 1 1 managing your stress? How do you seek 16 7 3 1 1 2 1 1 15 9 2 2 2 2 2 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1	.≒ ਹ ਕ	nformation on the iffects of tress?	36.7	30.0	13.3	13.3		6.7	36.7	26.7	20.0	10.0		6.7	70.0	26.7		8. 8.				4 0.0	40.0	16.7	ట ట
knowledge on managing your stress? 43.3 13.3 20.0 10.0 10.0 3.3 46.7 13.3 26.7 6.7 3.3 3.3 73.3 23.3 3.3 stress? stress? 1 2 1 2 1 5 2 2 2 2 2 2 3.3 50.0 30.0 6.7 6.7 6.7 6.7 70.0 26.7 3.3 stress sessment of your stress level? 3 3 5 6 7 3 3 6 7 6 7 6 7 6 7 3 <th< td=""><td></td><td>low do you seek</td><td>13</td><td>4</td><td>9</td><td>က</td><td>ო</td><td>.</td><td>7</td><td>4</td><td>œ</td><td>81</td><td></td><td>-</td><td>22</td><td>-</td><td>-</td><td>ı</td><td>•</td><td></td><td>1</td><td>16</td><td>10</td><td>တ</td><td>-</td></th<>		low do you seek	13	4	9	က	ო	.	7	4	œ	81		-	22	-	-	ı	•		1	16	10	တ	-
How do you seek 16 7 3 1 2 1 15 9 2 2 2 2 2 - 21 8 1 knowledge on 53.3 23.3 10.0 3.3 6.7 3.3 50.0 30.0 6.7 6.7 6.7 6.7 70.0 26.7 3.3 stress series of your	9 E #	mowledge on nanaging your	43.3	13.3	20.0	10.0	10.0	8. 8.	46.7	13.3	26.7	6.7	8. 8.	e. e.	73.3	23.3	3.3					8. 8.	33.3	10.0	e. e.
53.3 23.3 10.0 3.3 6.7 3.3 50.0 30.0 6.7 6.7 6.7 70.0 26.7		low do you seek	16	7	ო	,	64		15	o.	81	81	63	1	21	00		ì	ŀ	1	1	14	10	ĸ	-
	य स	mowledge on sessment of your ress level?	53.3	83 83 83	10.0	က က	6.7	e. e.		30.0	6.7	6.7	6.7		70.0	26.7	က က					46.7	33.3	16.7	e.

Table 3 (cont)

30. How do you modify with your coping strategy? 31. How do you modify your resources for stress management? 32. How do you modify the ways to reduce your stress?	odify 17 sg 56.7 for 60.0 sent? use 53.3	5 5 5 116.7 113.3 10.0	Pre-lest Frequency 3 4 4 13.3 6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					Post-test	fest													
		1 1	neu	~ *											Pre-test	test					Post-test	-	
				4 %					Frequency	ency			-		Frequency	ency					Frequency	34	
				*	ro.	9	1	83	es	7	ro	9	-	8	m	4	ις	9	1 2	63	•	ю	•
					*	*	*	*	*	*	*	*	*	*	8	*	\$	*	*	*	*	*	*
with your coping strategy? How do you mo your resources for stress managemy. How do you mo the ways to redu your streas? How frequent do				8	81	ı	16	~	4	N		,	22	œ		1	1		•	16	10	*	•
How do you mo your resources for stress manageme. How do you mo the ways to redu your stress? How frequent do				6.7	6.7		53.3	23.3	13.3	6.7	3.3		73.3	26.7						53.3	33.3	13.3	
your resources feathers manageme How do you mo the ways to redu your streas?			ო	က	81	1	16	7	က	89	8		19	10		1	ı	1	1	16	10	4	'
How do you mo the ways to redu your streas?	۸.		10.0	10.0	6.7		53.3	23.3	10.0	6.7	6.7		63.3	33.3	3.3					53.8	33.3	13.3	
the ways to reduyour stress?		83	9	4	-		17	61	ф	တ	81	•	17	12	г	ŀ	1	1	ı	*	11	*	1
How frequent do		6.7 20	20.0 1	13.3	e. 6.	3.3	56.7	6.7	20.0	10.0	6.7		56.7	40.0	3.3					46.7	36.7	13.3	e.
•	lo you 16	-	က	83	8	1	18	9	n	1	83	1	17	12	-	1	ı	ı	ł	13	13	4	'
practice stress management?	ν. 	23.3 10	10.0	6.7	6.7		80.0	20.0	10.0	3.3	6.7		56.7	40.0	ຄ. ຄ.					43.3	£3.8	13.3	
How do you	15	· •	4	-	4		11	4	•	ო	81	,	22	00	ı	1	ı	,	1	13	13	ĸ	1
examine your stress level?	ress 50.0	20.0 13	13.3	3.3 1	13.3		56.7	13.3	13.3	10.0	6.7		73.3	26.7						43.3	40.0	16.7	

	·						Control Group	roup										យ	Experimental Group	l Group				
	•			Pre-test)sə,					Post-test	test					Pre-test	test					Post-test		
				Frequency	ncy					Frequency	ncy					Frequency	ency					Frequency	¥	
		-	81	က	•	ю	9	-	63	e	4	ø	9	-	83	ო	4	ß	9	1 2	က	•	ю	80
		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35.	How do you know	15	ĸ	ĸ	8	m	•	13	6	ю		o	1	19	10	~	1	•	1	1	7.	12	•	ı
	how to manage when stress occurs?	50.0	16.7	16.7	6.7	10.0		4 3.3	30.0	16.7	3.3	6.7		63.3	33.3	3.3					46.7	40.0	13.3	
36.	Personal hygiene How do you seek	-	ო	w	a	ထ	ဖ	1	•	ю	-	=	C4	a	4	∞	8	1	-	1	-	a	01	01
	knowledge on the importance of having	3.3	10.0	16.7	30.0	20.0	20.0	3.3	13.3	16.7	23.3	36.7	6.7	30.0	13.3	26.7	6.7		23.3		3.3	30.0	33.3	83.8
	good personal hygiene?																							
37.	How do you seek	89	ю	ო	7	9	-	84	4	4	æ		ю	10	•	89	ო	က	4	1	1	10	11	o
	knowledge on managing your personal hygiene for preventing diabetes complications?	6.7	16.7	10.0	ရ ရ စ	20.0	23.3	6.7	13. 8.	89 89 80	26.7	က က လ	16.7	8. 8. 8.	26.7	6.7	10.0	10.0	13.3			83.3	36.7	30.0
38.	How do you practice		-	œ	O.	G	01	61	81	00	9	o	m	7	ю	ო	60	4	מו	,	•	60	æ	13
	adjusting your routine for good personal hygiene?	3.3	6.0	26.7	30.0	30.0	6.7	6.7	6.7	26.7	20.0	30.0	10.0	23.3	16.7	10.0	20.0	13.3	16.7			26.7	30.0	43.3

Table 3 (cont)

							Control Group	dno										Exp	Experimental Group	Group					
			-	Pre-test	est					Pre-test	est					Post-test	ıst					Post-test			1 1
				Frequency	ncy					Frequency	ncy					Frequency	ίζγ					Frequency			
		-	87	8	-	rs.	.	-	87	60	4	2	9	1	2	6	•	5	9	-	63	-	٠.	9	
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ė	attention on your		6.7	16.7	26.7	23.3	26.7		6.7	uš	23.3	o,	26.7	16.7	23.3	6.7	13.3	16.7 2	23.3			26.7	20.0	53.8	
	personal hygiene?																								
9	How do you adjust	ო	က	4	ĸ	00	7	6 4	60	₹	۵	œ	∞	7	ဖ	ო	83		4	ı		64	~	1	
	yourself for better	10.0	10.0	13.3	16.7	26.7	23.3	6.7	10.0	13.3	16.7	26.7	26.7	46.7	20.0	10.0	6.7	3.3 1	13.3			6.7	23.3	23.3	
9	oral care?	•	•	c	q	5		ď	-	•	uć.	đ	œ	t.c	6	(-	œ	4	V C	1		NO.	00	11	
5	How do you practice	+	-	' 9	Þ	3	•	,	•				,	,					,			' '	, ,	;	
	your perineal care?	13.3	8.3 8.3	6.7	20.0	33.3	23.3	10.0	3.3	13.3	16.7	30.0	26.7	20.0	6.7	23.3	20.0	13.3	16.7			16.7	26.7	56.7	
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4	How do you practice	-	ro	4	ĸ	20		ı	*	æ	ra	ro.	œ	w	•	4		n	ø	1	1	-	æ	15	
	taking care of your	8.3	16.7	13.3	16.7	26.7	23.3		13.3	26.7	16.7	16.7	26.7	16.7	16.7	13.3	23.3	10.0	20.0			23.3	26.7	20.0	
	feet?																								
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APPENDIX D SUPPORTIVE-DEVELOPMENTAL NURSING CARE PLAN

Supportive-Developmental Nursing Plan for Person with Type 2 Diabetes.

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
First session	Introduction:	After patient assessment,	Based on questions	1. Provide quiet
(1 st visit)	Good morning. For the first session of	instructor will guide the	asked, instructor will	and conducive
Place: Diabetes	teaching, I would like to emphasize on	patients to carry out the	provide appropriate	room with good
Clinic	information of Type 2 diabetes and	knowledge they have into	support so that patients	ventilation
Time: 1 hours	guidelines for dietary control. The	practice.	can accept and feel	
	information will enhance your self-	Listen and ask about	confident to manage	equipped with
	care capabilities and practice for	health problems, and	themselves.	air condition,
	controlling the disease. This session	feeling.		comfortable,
	will offer practical information on	2. Answer to the common	1.1 Provide reassurance by	and soft chairs.
	becoming manager or owner of your	questions as in the	answering the questions with a	
	own health. Adequate attention to	following examples:	smile and speak softly. Tell	2. Provide with
	self-care practice will promote optimal	1. Can Type 2 diabetes	them such as, 'you need time	drinks.
	productivity, satisfaction, and quality	be cured?	to adapt and adjust to your	3. Researcher
	of your life. In addition, other methods	There is no cure for	illness'.	will do self
	of helping, i.e. guiding, supporting,	diabetes however Type 2		introduction
	building relationship, and providing	diabetes can be a well	1.2 Give comfort to the	
	environment for promoting your self-	managed diabetes, by		to participants.
				Give participant

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	care practice through seeking	keeping the blood glucose	patient if she/he feels	A chance to
	information, making decision operating	as close to normal as	upset that Type 2	introduce
	your self-care activities will be	possible to minimize the	diabetes is incurable.	themselves
	integrated.	risk of complications,	Touch their hand to calm	such as name,
		such as hyperglycemia or	them. Allow to express	age and brief
	Module 1: Introduction to Diabetes Mellitus.	hypoglycemia.	their feeling, give	history of each
	Before the teaching session, instructor		positive answer e.g.	other.
	will assess patient's background	2. I am newly diagnosed	although diabetes is	
	knowledge on diabetes, how are their	of Type 2 diabetes, am I	incurable, but if the	4. Sit together in
	perception and what motivates them	at risk for skin problem?	patient manage to	a circle such as
	to come to the hospital.	Diabetes can affect	control it, they can lead	informal
	1.1What is diabetes.	certain parts of the body,	a normal life.	teaching. Not
	Diabetes is a chronic disease in which	including the skin. A lot		only can see
	the body makes little or no insulin, or	of people with diabetes	1.3 Explain clearly in simple	each other but
	is unable to use the insulin it makes.	do have skin problems,	term so that patient can	may infer the
	1.3 Type 2 diabetes.	however, if detected	understand, and that	participants
	High blood glucose arises despite	early it can be prevented	patient can live a	
	initial abundance of the hormone	or easily treated.	normal life as long as	
	insulin. These individuals have high	Uncontrolled blood	patient can manage and	
	levels of insulin yet their cells	glucose level may promote	control his/her diabetes.	

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	resistance is high. Therefore they can	skin problem at the	2.1 Provide reassurance.	through facial
	develop a deficiency of insulin.	perineal area, especially	Speak softly, and tell	expression
	1.4 Causes of Type 2 diabetes	for women such as vaginal	them such as, 'you	to assess
	• Type 2 diabetes occurs when your	irritation.	need to adjust your	happiness or
	body responds inefficiently to the		time when is convenient	sadness.
	hormone insulin, which regulates	3. Do we have to follow	for you to come for a	
	blood sugar	diabetes meal plan?	check-up.	
	Insulin resistance can be a risk	People with diabetes		
	factors for Type 2 diabetes	should have a balanced	2.2 Explain clearly in	
	The risk for diabetes increases with	diet. By eating a	simple terms so that	
	age for Type 2 diabetes. The vast	balanced diet consisting	patient can understand,	
	majority of people with Type 2	of vegetables, protein,	and that patient can live	
	diabetes are obese	and carbohydrate, you	a normal life as long as	
	Hypertension is also a risk factor for Type 2	can keep your blood	patient to manage and	
	diabetes having	glucose level as close to	control her/his diabetes.	
	diabetes during pregnancy, having	normal (non-diabetes		
	delivered a large baby (more than 9	level) as possible. When	2.3 Provide reassurance.	
	pounds) or having impaired glucose	you make healthy food	Speak softly, and tell	
		choices, you will improve	them such as, you need	
			time to adapt and adjust	

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	tolerance increases your chances of	your overall health.	to your meal plan.	
	developing Type 2 diabetes.			
	1.4 Symptoms of Type 2 diabetes.	4. How to do when	2.4 Give comfort by touching their	
	Frequent urination	eating out?	hands to calm them. Allow	
	Thirsty	Not everyone with	time for them to express their	
	● Lethargy	diabetes has the same	feeling, give positive answer,	
	Delay wound healing	meal plan or the same	e.g., although following the	
	1.5 Can diabetes be cured?	nutrition goals. For other	meal plan is difficult however	
	Diabetes is incurable however it can	diabetes, cutting calories	if practice it everyday, they	
	be controlled by diet, exercise, and	is the most important.	will improve themselves	
	insulin injection or medication.	Others may need to limit	towards meal planning.	
	1.6 Can diabetes be prevented?	fat and salt, and eat more		
	Diabetes can be prevented by	high fiber food. It can be	3.1 Explain clearly in	
	maintaining ideal body weight based	plan ahead, choose wisely,	simple term about the	
	on height and body mass index, taking	and you will find and	meal plan so that	
	high fiber food and exercising.	enjoy your food for that	patients could	
	1.7 Complications of Type 2 diabetes	day and fit into your	understand, and that	
	mellitus:	meal plan. Many	patient can live a	
	Renal failure	restaurants are trying to		
		meet diners' health		

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	Heart failure	needs. Eating out can be	normal life as long as	
	Retinopathy	one of life's great	patient manages and	
	Neuropathy	pleasures. Make the right	controls his/her diabetes.	
	Skin problem	choices, ask for what you		
	• Foot ulcer	need. You can enjoy	5.1 Provide reassurance by	
	Problem in sexual activity	yourself and take good	answering the questions	
		care of your diabetes at	with smile and speak	
	Module 2: Guidelines for diabetic diet	the same time.	softly. Tell them such	
	A balanced diet, consisting of		as, 'you need to record	
	vegetables, protein, carbohydrates is the	5. How do we know that	every time your weigh.	
	main factor that control blood glucose	our weight is at normal		
	level.	level?	5.2 Explain clearly and use	
	The goal of dietary control are:	Weight reduction can	simple term so that	
	Maintain blood glucose level as	help to control your	patients can have	
	close to normal (80-120 mg%)	diabetes. Unfortunately,	his/her favorite	
	Appropriate calories intake in order to	it is difficult to sustain,	food and live normal	
	control blood sugar.	however you may	life as long as patient is	
	Prevent diabetes complications	weigh yourself once a	able to manage and	
		month or every six month	control his/her ideal	
		to know your actual	body weight. Your ideal	

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	Diet with enough calorie count. The foods must	weight.	body weight depends on	
	consist all 5 groups of of nutrients as follows:		your height. Your waist	
	Carbohydrate	6. I am an obese person,	size also gives a rough	
	One should select the food which delays	can diabetes go away if	idea, the longer the	
	hyperglycemia and have a lot of fiber	I lose weight?	distance around your	
	such as rice, noodle. Patients should	It can go away if the	tummy the greater the	
	avoid sweets such as dessert and soft	diabetes has not existed	risk to your health. The	
	drinks, because it contain too much	for too long, because there	useful way of finding	
	sugar. Diabetes patients can eat rice,	is actually still enough	out whether your weight	
	noodle, glutinous (without coconut milk) as usual	insulin for a person of	is suitable for your height	
	but they have to select only one type of	normal of normal weight.	your have to calculate	
	carbohydrate per meal.	The tendency to get	your body mass index	
	Protein	diabetes remains for life.	using this formula:	
	Diabetes patients can eat meat but the		BMI = Weight in	
	meat should be low fat without the		kilograms/(Height in	
	skin and fatty parts. Patients can eat		meters) ² . For examples,	
	shrimp and crab but can't eat extra fat.		if you are 6ft tall (1.83	
	Patients can eat 2-3 eggs a week. If		metres) and 75.3	
	they do not eat egg yolks, they can eat		kilograms in weight,	
			then your BMI is as	

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	egg everyday. The patients had better take		follows:	
	more fish particularly sea fish. Moreover,		$BMI = 75.3 / 1.83^2 = 22.48$	
	patients should take tofu and avoid liver,		This number will	
	heart, and lung of any animals. The		interpret base on the	
	amount of protein intake can be as usual		below range.	
	except for patients who have renal		Underweight < 19.1 F	
	problem must reduce protein caloric		< 20.7 M	
	intake.		Ideal weight 19.1 to 25.8 F	
	Fat		20.7 to 26.4 M	
	Fat is a nutrient which the patients need		Overweight 27.3 to 32.2 F	
	some on their diet. But too much fat isn't		27.8 to 31.1 M	
	good for anyone. It can be very harmful to		6.1 Provide reassurance,	
	people with diabetes. Patients should avoid		answer the question with	
	all fried food. They should cook by		smile and speak softly,	
	baking, boiling and steaming. If they want		and tell them such as,	
	to use any oil for cooking, they should use		your diabetes may go	
	vegetable oil and do not use coconut oil.		away if you loses weight	

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	Vegetables and fruits		but reducing weight is not	
	Diabetics should eat vegetables, because		necessary in two days.	
	it has more fiber. Vegetables are low		You still have to maintain	
	carbohydrate. A diet containing high		a well balance diet.	
	dietary fiber is thought to delay digestion			
	and absorption in the upper gastrointestinal			
	tract. These fibers may help slow sugar			
	absorption which results in hypoglycemia			
	after meal. The amount of calories intake			
	are not limited. Fruits should be plain such			
	as orange, papaya, watermelon, and			
	guava. They should stop taking sweet			
	fruits such as durian, longan, jack fruits,			
	sugar cane, sweet tamarind, and dry fruits			
	such as raisins, apricots and apples. Due			
	to the act that dry fruits contain high sugar			
	which is easy for the body to absorb and			
	results in hyperglycemia. Moreover,			
	diabetes patients should avoid salty food.			
	Diabetes patients who take alcohol and			

Session	Group Teaching	Guiding	Supporting	Providing
				Environment
	guava. They should stop taking cannot			
	control their body weight. Alcohol			
	inhibits hepatic glucogenesis. Therefore			
	the person with diabetes might faint due			
	to hypoglycemia. If they still need an			
	alcohol women should drink no more			
	than a drink per day and men no more			
	than two drinks a day. Do not drink			
	alcohol with an empty stomach. It can			
	cause very low blood glucose.			

Supportive-Developmental Nursing Plan for Person with Type 2 Diabetes.

	Group Teaching	Guiding	Supporting	Providing
				environment
Second session (2 nd	Introduction:	7. What kinds of exercises	7.1 Provide reassurance	
visit)	Hello everybody, nice to meet you again. For	are appropriate for	using a word such	
Place: Diabetes	the second session, we are going to have more	diabetes patient?	as 'some of you	
Clinic	learning on performing exercise and following	Exercise is known as	will probably know	
Time: 1 hours	medication regimen to control your diabetes. As	physical activity and	a simple exercise,	
	we know, exercise is extremely important in	includes anything that	but I'll talk about it	
	managing diabetes because of its effects on	gets you moving, such	briefly'.	
	lowering blood glucose and without following	as walking, dancing, or		
	medication regimen, your diabetes control would	working in the yard. If	7.2 Explain clearly	
	not be effective. This session will also promote	you do it freely you will	about simple terms	
	your capabilities on using exercise and	get the benefits of being	of exercise so that	
	medication to control your health problems. In	physically active without	patients could	
	addition, your questions or requests both from	going to a gym, playing	understand, as long	
	previous module or this session will be	sports, and using fancy	as patients can do	
	responded through our discussion. Other	equipments. When you're	regularly,	
	methods of helping, i.e. guiding, supporting,	physically fit, you will	continuously, and	
	and providing environment for promoting your	have the strength,	does not burden to	
	self-care practice will be used to promote your	flexibility, and endurance	the them.	

Group Teaching	Guiding	Supporting	Providing
			environment
capabilities on seeking information, making	needed for your daily	8.1 Provide reassurance by	
decision, and operating your self-care activities	physically active helps	touching and explain	
as the previous session.	you feel better physically	clear about simple term	
Module 3: Exercise	and mentally.	of hypoglycemia so that	
Instructor asks patient about their condition,		patient understand, and	
health and their previous experience at home.	8. Do I get hypoglycemia	can prevent the	
Did they encountered problems and difficulties.	on tablet therapy?	complication such	
Instructor asked patients if they have further	Taking tablets to help	as hunger, sweating,	
questions regarding the previous education.	control your blood	trembling blurring of	
Every diabetes should try to exercise. There are	glucose level then you	vision or headaches.	
two types of exercises, isotonic and isometric.	need to eat regular meals		
Both are good ways of controlling glucose,	and make sure that you	8.2 Advice them again to	
however Isotonic is the best for cardiovascular	take your tablets at the	always take the	
system.	times prescribed.	tablets at the	
Examples of Isotonic exercise are:	However if problem	prescribed time, do	
Brisk walking	happen take a sugary	not take more than	
• Jogging	drink or some sweets.	prescribed and adhere	
• Cycling	Then eat a starchy snack,	to the meals.	
• Running	such as a sandwich.		

Group Teaching	Guiding	Supporting	Providing
			environment
Playing Tennis			
• Callisthenic			
In addition, some work such as digging, cleaning the house,			
moving, bicycling, and watering plants, are part of isotonic			
exercise,			
Isometric exercise include as following:			
Body building			
Pumping with stretching legs			
Exercise is good for people with diabetes.			
Because resgular exercise burns calories that your			
body may store as extra weight. Exercise helps			
the patients' control their diabetes. In addition,			
exercise helps to reduce some stress and helps			
the patients to sleep well. The suitable exercise			
for diabetics patients should be continued			
exercise such as jogging, walking aerobic, and			
bicycling which should be done at least 3 times a			
week or every two days. Patient should spend			
at least 20 – 30 minutes of exercising for each			
session.			

Group Teaching	Guiding	Supporting	Providing
			environment
Starting with slow and gentle warm up to get			
the heart and muscles prepared to exercise.			
Keep muscles and joints stretching for about			
5- 10 minutes. Exercise for about 5-10			
minutes and end your exercise with a cool			
down for another 5-10 minutes to help			
breathing become normal. If you are not an			
active person, simple foot exercise as			
illustrated in page 14 helps to get you started.			
Module 4: Medication taking.			
Oral hypoglycemic agents.			
Administering an oral hypoglycemic agents			
must be practice regularly at the right time,			
with right dose. Patients should not increase or			
reduced the dose on their own without			
consultation from the doctors. Sulphonylureas			
effect on lowering blood sugar. Adverse drug			
effects are infrequent, the incidence being			
approximately 3% to 5%. Side effects are			
hypoglycemia, nausea, vomiting, weight, rash,			

Group Teaching	Guiding	Supporting	Providing
			environment
and photosensitivity. Daonil works by			
stimulating pancreatic beta cells. The elevated			
blood glucose requires increased amounts of			
insulin which is consumed by the tissue in the			
cell. Patients should administer this drug 30			
minutes before meals. If patients forget to			
take before meal then the correct advice is			
take the tablet after meal or with meal.			
Biguamides groups, i.e., metformin which			
reduces the absorption of glucose from the			
intestine, inhibits the production of glucose by			
the liver, and enhance insulin action on the			
tissues. The drug should be taken with meal.			
Side effects are nausea, vomiting, flatulence,			
diarrhea, metallic taste, and anorexia.			
Insulin			
What is insulin?			
Insulin is a hormone that is usually made in			
little islands of special cells in the pancreas			
(Islets of Langerhans) from where it is			

Group Teaching	Guiding	Supporting	Providing
			environment
released into the blood.			
How is insulin administered?			
Insulin can be administered through injection.			
What is the proper way to inject the insulin?			
The aim is to get the injection into the layer of fat			
which lies below the skin and above the muscle			
using short (3/8-1/2 inch) needles inject almost			
vertically. There are			
certain effects of insulin. Onset time-This is the			
delay from the moment of injection to the time the			
injected insulin starts to lower the blood glucose.			
Duration of action - This is the period for which the			
injected insulin			
continues to have any effect. Peak of			
action - This is the time from the injection			
before the insulin reaches its maximal			
effect.			
How to keep the insulin?			
Insulin should be kept in a cool place such			
as refrigerator (maximum 25°C but not in			

Group Teaching	Guiding	Supporting	Providing
			environment
the freezer.			
Avoid from the sunlight.			
Away from children.			

Supportive-Developmental Nursing Plan for Person with Type 2 diabetes.

Session	Group Teaching	Guiding	Supporting	Providing
				environment
3 rd session (3 rd visit)	Introduction:	9. How do I care for my	9.1 Provide reassurance	
Place: Diabetes	Today we are going to have more	diabetes during	such as speak softly	
Clinic	learning on handling special occasion	traveling?	and clearly, and use	
Time: 1 hours	such as fasting month, traveling, and	Go wherever your	simple terms about	
	arranging diabetes complications, such	heart leads you. Just remember that you	how to manage during this period	
	as hypoglycemia and hyperglycemia.	take your diabetes with	in order for them to	
	In addition using glucometer for	you. Take your self-	have an enjoyable	
	monitoring your blood sugar will be	care along, too. No	time as non diabetes	
	emphasized. This session will also	matter what kind of	person.	
	practically promote your capability	diabetes you have its		
	on prevention of the diabetes	smart to watch what	9.2 Provide reassurance	
	complications. Furthermore, your	you eat and drink	such as speak softly	
	questions or requests from previous	when traveling and don't forget to check	and clearly, and use simple terms on how	
	modules will be responded through	your blood glucose	to manage during	
	our discussion.	level.	this period.	

Group Teaching	Guiding	Supporting	Providing
			environment
Module 5: Management of diabetes.	10. Do I have to check my	10.1 Provide reassurance	
Instructor asks patients about their	glucose level during	such as speak	
condition, health and their previous	sickness?	softly and clearly,	
experience at home. Did they	While you are coping	and using simple	
encountered problems and difficulties.	with your sickness, you	term about how to	
Instructor asked patient if they have	have to pay extra	manage or	
further questions regarding the previous	attention to diabetes	monitoring, in	
education.	care. During this period	order to prevent	
1. Fasting month	most people have poor	further	
Diabetes patients may fast during	appetite. It is better to	complication.	
fasting month. However, if any	follow your meal plan		
contraindications arise consult your	as possible and not to	11.1 Provide	
doctor.	forget to check your	reassurance such	
2. Traveling	glucose by using a	as speak softly and	
Plan and seek advice from your	glucometer.	clearly, and using	
doctor if necessary before		simple term about	
traveling. Bring enough equipment		how to manage	
For own care of diabetes. Make		or monitoring, in	

Group Teaching	Guiding	Supporting	Providing
			environment
sure you can get your supply or at	11. Why monitoring of	order to prevent	
your destination. Don't forget to	glucose level is	further	
bring your medicine identity card or	important?	complication.	
'medic alert'.	The future health of the		
3. Social function	diabetes patient with	12.1 Provide reassurance	
Adjust your meal plan ahead by	diabetes, both from day	such as speak softly	
eating a light snack before going in	to day and in the long-	and clearly, and	
case the function starts a bit late.	term, depends on the	sing simple term	
Choose correct food according to	degree with which the	about how to	
your meal per day.	blood glucose is	manage or	
4. Pregnancy	controlled. It is	monitoring, in	
Diabetes patients should plan their	important to monitor	order to prevent	
pregnancy and tell them about some	the glucose to reduce	further	
consequences such as deformed baby	the risk of complication	complication.	
and abortion.	of vision, kidney		
5. Sickness	problem, blood		
Please contact your doctor if you are	circulation and heart		
sick. Drink a lot of water and if	disease.		
alteration of insulin is given by the			

Group Teaching	Guiding	Supporting	Providing
			environment
doctor, make sure to adhere to it.	12. How can I prevent		
6. Before operation.	from hypoglycaemia,		
Before under going for any operation	hyperglycaemia and		
please inform your doctor that you	ketoacidosis?		
are a diabetes patient.	Diabetes is a chronic		
	and systemic disease		
Module 6: Monitoring diabetes	that can trigger life-		
Monitoring level of glucose in the blood	changing complications		
by using glucometer or dipstick.	in virtually every		
Advantages of blood glucose testing. It	system of the body, but		
gives more accurate reading of glucose	with good self-care and		
level in the blood compared to urine.	preventive strategies,		
Tells the actual level of the blood	you can be as non		
glucose at a particular time.	diabetes person.		
Before lunch – 4.7 mmol/L	Eventually, you are in		
Post meal – less 10 mmol/L	charge of your own		
Bedtime – 6 mmol/L	healthcare, so put a		
	little attention to how		

Group Teaching	Guiding	Supporting	Providing
			environment
It is a definite way to diagnose a low	food, and lifestyle		
blood glucose	choices impact your		
A sequence of blood tests show the	glucose level on the		
effect of a meal on the blood glucose	goal of controlling your		
over a short time, e.g. an hour or two.	diabetes.		
Module 7: Complications of Diabetes	13. What should I do when		
Mellitus.	getting hypoglycemia/		
7. Hypoglycaemia	hyperglycemia?		
Blood glucose lower than normal level.	Each conditions can be		
It can happen because of the following	Treated by measuring		
factors:	the level of blood		
8. Never follows the schedule for	glucose. If untreated,		
meal plan. A person with diabetes	hypoglycemia can lead		
eats too little, too late or not late or	to confusion, coma or		
not at all.	convulsions. Hypo-		
9. Stress	glycemia often comes		

Group Teaching	Guiding	Supporting	Providing
			environment
10. A sudden increased in unplanned	within minutes.		
physical activity without having	If you have a hypo-		
any light snack.	glycemic reaction, you		
11. Symptoms of hypoglycaemia:	should treat it		
Hunger	immediately by eating		
Sweating	some form of carbo-		
Trembling	hydrate (sugar). Have		
Blurring of vision	something like glucose		
Headache	tablets or sugar cubes		
Prickling sensation on the tongue	with you at all times and		
12. Symptoms of hyperglycemia	take at the first sign of a		
Blood glucose over 240 mg/dl	reaction. Your body		
More urine output than usual	needs fast-acting sugar		
Increased thirst	at that time. Instead of		
Dry skin and mouth	hyperglycemia reaction,		
Decreased appetite, nausea, or	think about why the		
vomiting.	reaction happened.		
	Perhaps your meal was		

Group Teaching	Guiding	Supporting	Providing
			environment
13. Ketoacidosis: is developing when you	late, you got too much		
have	exercise or you took		
a. Persistent blood glucose levels	your medication at a		
over 15 mmol/L	different time. Very		
b. Persistent urine tests of 2 %	often, reactions can be		
glucose or more	avoided by closely		
c. Increasing ketones in urine	following your treatment		
d. Increasing thirst	plan and don't forget to		
e. Increasing frequency of micturition	test blood for glucose		
f. Weight loss – i. e. dehydration	and urine for ketones		
g. Nausea and tiredness	every two hours.		
h. Vomiting			
i. Drowsiness			

Group Teaching	Guiding	Supporting	Providing
			environment
Individual teaching	14. Does diabetes cause	14.1 Provide reassurance	
	problem in sexual	by touching and	
	activity?	comfort. Give	
	Uncontrolled blood	them time to	
	glucose level may	speak, not rushing.	
	disturb overall health.		
	For women it will	14.2 Explain clearly and	
	promote infection and	in simple term on	
	vaginal irritation,	how to manage	
	vascular restore the	normal activity.	
	blood flow to the		
	vagina, which cause	14.3 Allow patients to	
	vaginal dryness, and	express their	
	interfere with arousal	dissatisfaction or	
	(low estrogen level can	any emotional	
	also cause lubrication	feeling related to	
	problem), However,	sexual activity.	
	with adjustment in		
	medications, maintain		

Group Teaching	Guiding	Supporting	Providing
			environment
	exercise, and diet will	15.1 Allow patient to	
	bring your glucose	express feelings of	
	levels back to normal	insecurity, or	
	sexual activity. For the	sadness.	
	men there are several		
	options in the treatment	15.2 Try to answer	
	of erectile dysfunction	patients question	
		clarify doubts	
	15. Can diabetes lead to	about own illness	
	stress?	or personal	
	Every body have their	problem.	
	own problem, if we		
	fight the illness, the	15.3 Give comfort by	
	happiness will come	touching and	
	back. There is no	explain clearly	
	specific relation between	with simple terms	
	diabetes and stress, but	on how to over	
	ill health is a common	come problem.	
	trigger for stress.		

Group Teaching	Guiding	Supporting	Providing
			environment
	Therefore many illnesses		
	may be associated with		
	stress. Perhaps treating		
	and confronting the		
	factors may better tackle		
	depression associated		
	with problems or		
	exacerbated by worries.		

APPENDIX E GUIDELINES FOR DIABETES PATIENT

UNTUK PESAKIT DIABETES PANDUAN PENDIDIKAN



Unit Epidemiologi-NCD

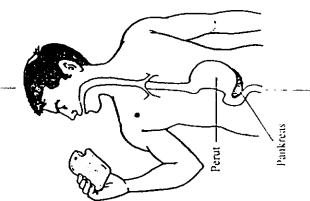


Apakah dia Diabetes? **.**:

gangguan di mana badar, tidak dapat Diabetes mellitus (Diabetes) merupakan satu menggunakan karbohidrat (gula dan kanji) dengan sempurna dalam pemakanan.

Selepas penghadaman, gula dan kanji menjadi glukosa. Glukosa disalurkan di dalam darah ke seluruh bahagian badan di mana insulin membantu glukosa masuk ke dalam sel badan untuk digunakan sebagai tenaga.

pankreas. Apabila tidak terdapat insulin asli yang mencukupi di dalam badan akibat bankreas yang kurang berfungsi dengan memuaskan atau tindakan insulin tidak berkesan, glukosa yang tidak di gunakan akan Insulin dikeluarkan ke dalam darah oleh terkumpul di dalam darah dan akhirnya mengalir melalui buah pinggang dan keluar ke dalam air kencing.



Apakah Jenis Diabetes? તં

Terdapat Dua jenis:

YANG BERGANTUNG KEPADA INSULIN MELLITUS DIABETES Diabetes Jenis I:

- Tiada Insulin dalam badan
- Biasanya wujud di kalangan kanak-kanak dan belia
- lanya boleh dikawal dengan suntikan insulin, diet dan senaman.
 - mengikut tidak berlaku Biasanya keturunan.
- tidak mempunyai riwayat keluarga yang kuat. Biasanya

BERGANTUNG KEPADA INSULIN

- Terdapat hormon insulin totapi kurang Biasanya berlaku di kalangan orang dewasa dan individu yang mempunyai berkesan laltu terdapat rintangan. berat badan yang berlebihan.
 - Jika salah seorang Ibu atau bapa la boleh dikawal melalui diet dan senaman atau gabungan diet, senaman dan ubat
- mempunyal Diabetes, kemungkinan untuk Jika kedua-dua Ibu dan bapu mempunyai Diabetes kemungkinan mendapat mendapat Diabetes adalah lobih tinggi Diabetes semakin meningkat

Apakah yang menyebabkan Diabetes?

Diabetes mungkin ada hubungan dengan keadaan burikut:-

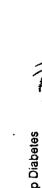
- Keturunan
- Berlebihan berat badan
- Mengandung
 - Ubat-ubatan
- Umur yang meningkat
- serius, pembedahan atau kemalangan. Selepas satu penyakit yang

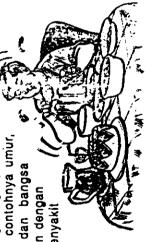
Apakah faktor risiko Diabetes?

- Berat badan yang berlebihan Tidak aktif secara fizikal

 - Faktor pemakanan
- Sejarah keluarga yang mengidap Diabetes

Faktor-faktor lain contohnya umur kumpulan etnik dan bangsa setalunya dikaitkan dengan risiko terhadap penyakit





Gejala-gejala Diabetes adalah :-

- Kerap kencing
- Dahaga dan lapar yang berlebihan
 - Terasa letih dan lesu
- Luka yang tidak sembuh
- Susut berat badan walaupun berselera makan Gatal pada kulit dan kemaluan (vagina)
 - Bayi yang besar
- Gejala komplikasi Diabetes

INGAT : Tidak semua pengidap Diabetes mempunyai gejala-gejala ini.

Adakah Diabetes boleh disembuhkan?

Diabetes tidak boleh disembuhkan. Walau bagaimanapun ianya boleh dikawal supaya anda boleh hidup sihat dan bermakna.

Kawalan Diabetes yang baik boleh dicapai melalui ;-

- Diet dan senaman
- Diet, ubat antidiabetik yang dimakan dan senaman atau
 - Diet, suntikan insulin dan senaman

Pemeriksaan yang mengikut jadual dan ujian darah dan air kencing adalah perlu untuk mengawasi kejayaan langkah-langkah ini. Kawalan Diabetes yang baik adalah penting dalam pencegahan sesetengah komplikasi.

dengan penyakit-penyakit kardiovaskular hendaklah diambil kira. Faktor ini termasuklah merokok, kegemukan, tekanan, Di dalam pengurusan Diabetes, faktor risiko yang ada hubung kait iperlipidemia, kurang senaman, darah tinggi dan lain-lain.

Bolehkah Diabetes dicegah?

Diabetes terutamanya Diabetes Jenis II, biasanya dikaitkan dengan berat badan yang berlebihan yang boleh dicegah dengan :-

- Mempunyai berat badan yang unggul
 - Makan makanan yang sihat
 - Bersenam selalu

Sec. All Sec. KOMPLIKASI DIABETES MELLITUS

Diabetes yang tidak dikawal boleh mengakibatkan komplikasi yang teruk seperti masalah buah pinggang, darah tinggi, sakit jantung, kurang penglihatan, edaran darah yang perlahan dikaki, gangguan sistem saraf dan jangkitan kulit dan sebagainya.

Kerosakan Buah Pinggang (Diabetes Nephropathy)

menyebabkan glukosa yang berlebihan di dalam air kencing dan pinggang. Walau bagaimanapun kawalan diabetes yang kurang baik dengan sendirinya boleh membawa kepada kerosakan buah pinggang dalam bentuk lain laitu pengeluaran protin yang berlebihan Penyakit diabetes yang tidak dikawal menyebabkan gula yang dengan itu membuatkan buah pinggang dan pundi kencing lebih lerdedah kepada jangkitan. Jangkitan buah pinggang yang berulang akan menyebabkan kerosakan dan masalah lain seperti lemah buah berlebihan dikeluarkan dari badan oleh buah pinggang. di dalam kencing.

Sakit Jantung dan Angin Ahmar (Stroke) તં

kemudiannya menyebabkan kekurangan pengaliran darah ke Diabetes yang tidak terkawal dikaitkan dengan paras kolesterol yang antung dan kemudiannya menyebabkan serangan sakit jantung. linggi dan menyebabkan penyempitan saluran darah. Kekurangan darah ke otak boleh menyebabkan angin ahmar.

Kerosakan Mata က်

dengan doktor secara berjadual dengan boleh menyebabkan penglihatan yang Komplikasi penyakit mata bagi pesakit Diabetes yang baik dan lawatan ulangan saluran darah di mata menjadi rosak. Ini kabur, katarak, glukoma atau buta. Diabetes boleh dicegah melalui kawalan nerujuk kepada pakar oftalmologi jika Bagi kes Diabetes yang tidak terkawal,



4. Kerosakan Saraf

ini biasanya menyebabkan kebas dan hilang sensasi pada tangan dan kaki. Akibatnya, tangan dan kaki lebih terdedah kepada Diabetes yang tidak terkawal menyebabkan kerosakan sarat badan. kecederaan dan jangkitan.

Kulit ശ

Slukosa yang berlebihan di dalam badan boleh menyebabkan angkitan yang lebih kerap pada kulit seperti bisul, pekung dan angkitan kulit. Kebanyakan komplikasi pada kulit disebabkan luka dan kebersihan diri yang tidak sempurna dan ini boleh diatasi dengan angkah-langkah pencegahan.

Ulcer Kaki ö

menyebabkan kaki kerana pemeriksaan kaki (termasuk Pengawalan Diabetes yang tidak pengurangan bekalan darah boleh dan Kebanyakan dari faktor ini terjadi disebabkan oleh luka pada kaki akibat penggunaan kasut yang diabetes, adalah penting untuk mewujudkan satu rutin harian penjagaan kaki. Ini termasuklah pembersihannya, jangkitan. Jntuk mencegah komplikasi kaki idak sesuai dan sebagainya. saraf kerosakan di nenyebabkan paik boleh nerosakan



penjagaan kulit, pencegahan dan rawatan cedera ringan oleh doktor atau jururawat yang berpengalaman, pemakaian kasut yang sesuai dan lembut setiap hari dan sebagainya.

- Awasi semasa penggunaan air panas sebab kepanasannya mungkin tidak dapat dirasa oteh pesakit diabetes.
- Potong kuku dengan cermat
- Jangan menyilangkan kaki
- Untuk masalah 'Callus', sila jumpa doktor supaya dapat dirujuk kepada pakar kulit.

RANQUAN DIET DIABETES 💉

Diet merupakan aspek penting dalam kawalan penyakit diabetes. Diet diabetes pula merupakan makanan seimbang yang mengandungi bahan untuk membekalkan tenaga dan semua khaslat makanan yang perlu untuk membina dan memelihara badan yang sihat.

Perbezan yang ketara lalah, DIET DIABETES

- Mengelakkan makanan bergula dan karbohidrat bertapis yang mengandungi kandungan gula yang sangat tinggi
- Makanan ini boleh menaikkan paras gula darah yang tinggi dan boleh mengakibatkan diabetes anda sukar dikawal
- Makanan berprotein dan berlemak perlu diambil dalam kuantiti yang sederhana.
- Lemak mengandungi sumber tenaga yang tinggi dan jika dimakan berlebihan boleh menambahkan berat badan.
- Makanan perlu dimakan pada masa yang sama setiap hari.
- Melambatkan masa makan atau makan pada masa-masa yang berbeza boleh menyebabkan paras gula darah lurun ke bawah paras normal dan menyebabkan hipoglisemia.
 - Jika berat badan anda berlebihan, anda perlu menghadkan kuantiti makanan yang dimakan.

yang menyenaraikan jumlah dan jenis makanan yang dibenarkan bagi Diet diabetes anda adalah dalam bentuk PELAN MAKANAN INDIVIDU setiap waktu makan dan snek di antara waktu makan.

Terdapat 3 kumpulan makanan dalam diet diabetes anda :-

Kumpulan I: MAKANAN YANG PERLU DIELAKKAN

ini merupakan makanan karbohidrat bertapis yang mempunyai kandungan gula yang sangat tinggi la tidak mengandungi jumlah khasiat makanan lain yang ketara dan IIDAK boleh makan dalam keadaan biasa.

Makanan tersebut adalah

- gula-gula gula putih dan merah
- glukosa
 - madn
- semua jenis sirap
 - marmalad em
 - kaya
- minuman ringan
- cokelat
- susu pekat manis lain yang bergula semua makanan buah-buahan tin biskut manis



Kumpulan II : MAKANAN YANG DIBENARKAN TANPA SEKATAN (BEBAS)

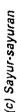
Ini adalah makanan yang rendah kandungan tenaga dan karbohidratnya dan bebas diambil kecuali perkara (d)

(a) Cecair

- Air, teh, kopi
- Air soda dan galian (tidak Manis)
 - Sup jernih

(b) Perasa dan perisa

- Rempah ratus, lada hitam, serbuk kari, biji sawi
 - Herba, gambir, pudina, pasli
 - Garam, cuka, kicap soya
- Esen vanila, ros, badam, pandan Sos cili (tulen)

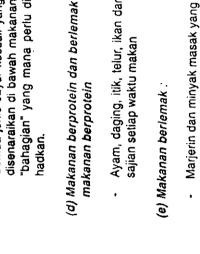


disenaraikan di bawah makanan Semua jenis sayur kecuali yang "bahagian" yang mana perlu di





Marjerin dan minyak masak yang monotepu dan politepu



karbohidrat tetapi ianya mengandungi sumber tenaga yang tinggi, dan jika dimakan berlebihan boleh menambahkan berat badan.

Pengambilan protein dan lemak harian yang dibenarkan dan dikira oleh doktor atau Penyelia Jenis Makanan anda mengikut

keperluan tenaga setiap hari.

Kumpulan III : MAKANAN BAHAGIAN ATAU BERSEKATAN

dimasukkan di dalam diet anda tetapi makanan ini mangandungi sedikit ini merupakan makanan karbohidrat tidak bertapis yang mesti gula atau kanji (karbohidrat)

(a) Biljirin :

- Roti bijirin penuh, cokelat, putih berserat tinggi
 - Nasi, makanan oat
- Capati, roti canai, tosai, putu mayam
 - Biskut manis

nsns (q)

Jika diambil berlebihan

(c) Sayur-sayuran

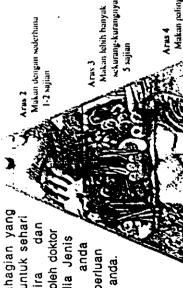
- Kacang pea, kacang buncis besar, jagung manis, karot, labu
 - keladi Kentang, keledek, ubi kayu,

(d) Buah-buahan

Semua jenis

Aras I Makan sedikit

Bilangan bahagian yang dibenarkan untuk sehari dinasihatkan oleh doktor atau Penyelia Jenis mengikut keperluan tenaga harian anda. dikira Makanan axan



- Minuman beralkohol biasanya tidak dibenarkan dalam diet diabetik kerana ianya mengandungi kandungan karbohidrat yang sederhana.
- Sedikit sahaja boleh di minum pada majlis sosial, jika dibenarkan oleh doktor anda,
 - Jangan sekali-kali minum alkohol tanpa mengambil sebarang makanan.
- Elakkan minum alkohol apabila memandu, makan ubat atau cuba mengurangkan berat badan.

Haruskah saya mengambil makanan diabetik yang khas?

Makanan diabetik yang khusus dipasaran tidak harus di gunakan kecuali disyorkan oleh doktor atau Penyelia Jenis Makanan anda.

Adakah semua pemanis tiruan sesual untuk diabetik?

- Ini boleh digunakan dalam kuantiti yang sederhana Jika dikehendaki
- Berbincanglah dengan doktor atau Penyelia Jenis Makanan sebelum makan sebarang pemanis tiruan.

🗜 🕾 👉 🐪 ... CONTOH HANCANGAN MAKANAN 🤛

Pesakit-pesakit diabetik boleh berbincang tentang diet mereka dengan membuat temujanji dengan Penyetia Jenis Makanan,

SARAPAN PAGI	Banyaknya	Bahaglan/Bebas
Roti, bijirin, mi atau nasi		Bahagian
Mentega, marjerin, minyak	1-2 sudu teh	Bebas
Telur	1-2 biji	Bebas
Teh atau kopi dengan susu cair	1 sudu makan susu	Bebas
MINUMAN PAGI	Banyaknya	Bahaglan/Bebas
Teh atau kopi dengan susu cair	1 sudu makan susu	Bebas



Panduan Pemilihan dan Penyediaan Makanan

produk bijirin contohnya beras, jagung, gandum, produk daripada Ambil sajian yang seimbang dan diet yang berkhasiat dengan menekankan kepada pengambilan karbohldrat kompleks seperti gandum, oat, barli, legum (peas dan kekacang) serta ubi dan akar umbuhan. Produk karbohidrat kompleks juga di kenali sebagai polisakarida merangkumi kanji dan gentian.

penting untuk kesihatan tubuh banyak terdapat dalam buah-buahan dan sayur-sayuran. Fiber gentian yang larut adatah dari bijirin, buahbuahan dan kekacang boleh membantu mengawal paras glukos dan kolestrol dalam darah. Cara terbaik untuk masak sayur adalah sama ada dengan mencelur, goreng dalam minyak yang sedikit atau makan sebagai salad atau ulam (mentah)

biskut

- Bagi makanan berprotein dan berlemak. က
- Pilih daging yang tiada lemak dan buang lemak yang terdapat pada ayam dan masak dengan kaedah seperti bakar, rebus lebih daripada menggoreng
- Penggunaan daging dapat dikurangkan dengan menambah banyak kekacang dan sayuran seperti bendi, kacang buncis, kacang dal dan kacang pis dalam masakan.
- Hadkan penggunaan lemak seperti marjerin, mentega, minyak salad, krim dan mayonis.
- agung, minyak zaitun, olein minyak sawit, minyak kacang soya Penggunaan minyak politaktepu dan monotaktepu seperti minyak dapat membantu menurunkan paras kolestrol darah.
- Pemilihan hasil tenusu yang rendah lemak seperti susu dan dadih ang rendah lemak untuk membuat puding atau diminum.
- Penggunaan garam dan gula dalam masakan.
- Biasakan penggunaan rempah ratus dan herba untuk menggantikan garam
- Pilih buah-buahan segar, sayur, daging dan bijirin yang tidak diproses kerana pada umumnya ia rendah kandungan natrium.
- Pengambilan makanan masin, perencah makanan (kicap, sos iram) hendaklah dihadkan, label pada makanan hendaklah diteliti ierutama pada makanan terproses dan ringan (snek)
- Rempah seperti kayu manis atau buah pala, daun pandan dan cengkih dapat menambahkan rasa sernula jadi makanan tanpa menambah gula.
- Minum air masak

<u>Rujukan</u> 1 Panduan Diet Malaysia 1999

Rajah 1

- SENAMAN KAKI - JOSEPH

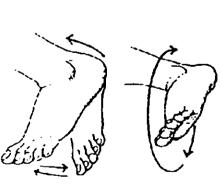
Duduk selesa dengan kaki diletakkan diatas lantai. Bengkokkan jari kaki ke atas dan ke bawah dengan tumit di letakkan di atas lantai. Lakukan sebanyak sepuluh kali.



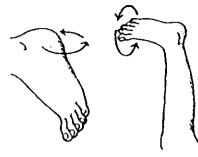
Rajah 2

Angkat setiap kaki sebanyak yang boleh dengan mengekalkan tumit ke atas lantai. Selepas itu, angkat tumit dengan mengekalkan jari kaki di lantai. Lakukan sebanyak sepuluh kall

Seterusnya, letak tumit di atas lantai, angkat kaki dan lukis bulatan. Lakukan sebanyak sepuluh kali.

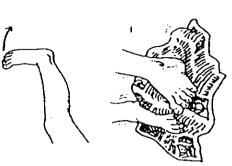


Letakkan jari di atas lantai, angkat tumit dan cuba lukiskan bulatan. Lakukan sepuluh kali. Angkat kaki ke atas dan lukis bulatan besar diudara. Lakukan sebanyak sepuluh kali.



Rajah 4

Duduk, bengkokkan dan luruskan lutut. Lakukan kedua-dua belah lutut sebanyak sepuluh kali. Letakkan sehelai kertas suratkhabar di atas lantai. Renyukkan kertas tersebut menggunakan kedua-dua belah kaki menjadi sebiji bola. Kemudian ratakan kembali. Lakukan sebanyak sekali.



......... UBAT ANTIDIABETES YANG DIMAKAN

Modal 4

Bagaimana ubat antidiabetes yang dimakan berfungsi di dalam badan anda? Ubat antidiabetes yang dimakan, diperbuat dari bahan kimia yang boleh merendahkan kandungan gula dalam darah.

Ferdapat dua cara tindakan:

- Dengan membantu badan membuat lebih banyak insulinnya sendiri atau
 - Dengan membuat sel badan untuk menggunakan insulin dari badan sendiri dengan sepenuhnya. ≘

ia hanya berguna kepada mereka yang masih boleh mengeluarkan insulin sendiri. Pesakit ini dikatakan tidak bergantung kepada suntikan insulin.

Ubatan yang dimakan boleh diklasifikasikan sebagai ubat yang bertindak cepat, sederhana dan jangka panjang.

Contoh kumpulan ini lalah:

Berlindak cepat

Folbutamide

Glizacide, glibenclamide, metformin Bertindak jangka panjang Berlindak sederhana

Chlorpropamide

Makan ubat ini seperti yang diarahkan oleh doktor untuk menentukan Bagaimana ubat antidiabetes yang dimakan perlu diambil? ubat ini berfungsi sepenuhnya.

SEMAK ARAHAN pada sampul ubat berkenaan.

- JANGAN makan ubat semasa perut kosong
- Jika anda terlupa makan ubat ini, makan dengan segera.

Jika tiba masa untuk dos berikutnya, tinggalkan dos tersebut dan ikut semula jadual yang biasa. JANGAN MENGGANDAKAN DOS

8.00 pagi. 2.00 petang dan 8.00 malam 8.00 pagi dan 8.00 malam alau 8.00 pagi atau pada pada pada Tiga kali sehari Oua kali sehari Sekali sehari

Annual Sections

- Jangan mengambil ubat-ubat lain kecuali yang dibenarkan oleh doktor anda.
 - Elakkan meminum alkohol apabila makan ubat.

Adakah Terdapat Sebarang Kesan Sampingan?

Mereka mungkin kehilangan selera makan, merasa loya atau Kesan sampingan mungkin berlaku di kalangan setengah pesakit. nempunyai ruam.

BERJUMPALAH DENGAN DOKTOR JIKA ANDA DAPATI ADA SEBARANG KESAN SAMPINGAN

Kesan sampingan mungkin akan hilang apabila badan anda menyesuaikan diri dengan ubat tersebut. Bagaimanapun, beberapa cesan sampingan tersebut mungkin perlu diberitahu kepada doktor anda. Sekiranya terdapat kemusykilan hubungilah doktor anda. Adakah apa-apa langkah keselamatan yang perlu diambil semasa memakan ubat antidiabetik?

pembedahan, rawatan pergigian Selalulah maklumkan kepada doktor yang anda sedang memakan ubat ini sebelum menjalani atau rawatan kecemasan. Jangan makan ubat antidiabetik jika dengan susu badan (Mesti menukar anda hamil atau menyusukan anak ce cara suntikan insulin dengan nasihat dan bantuan doktor)



endah terjadi dan hubungilah doktor anda segera. Periksa gula darah Makan atau minumlah sesuatu yang manis jika gejala paras gula darah sekiranya anda boleh berbuat demikian. Beberapa contoh gejala gula darah rendah (hipoglisemia) latah : sejuk, peluh dingin dan gemuruh.

- Jauhkan ubat dari kanak-kanak
- Simpan di tempat yang bersih, kering dan sejuk
- Buang ubat yang telah luput tarikh atau ubat yang telah tidak diperlukan lagi.

Ingat

- Dengan pengawalan diet yang betul, senaman dan ubat yang betul seseorang diabetes itu boleh menikmati kehidupan normal dengan sepenuhnya.
- Ubatan boleh membantu mengawal diabetes dan paras gula dlam darah anda
- Jika paras gula andan terkawal, komplikasi diabetes yang serius seperti serangan jantung dapat dielakkan.
- Rawatan diabetes adalah sepanjang hayat. Selalulah mengambil ubat seperti yang diarahkan oleh doktor.

Jika anda mempunyai kemusykilan tentang ubatan anda, hubungi doktor atau ahli farmasi anda.

THE PARTY NITHON AND THE PARTY NAMED IN COLUMN TO THE PARTY NAMED IN COLUM

Apakah dia insulin?

dibuat secara asli oleh badan kumpulan ubat yang di panggil hormon, insulin tenaga gula yang terdapat dalam Insulin tergolong dalam membantu daripada karbohidrat dan menghasilkan makanan.



- secara diet, kawalan berat badan atau dengan ubat antidiabetes untuk pesakit diabetik yang mana diabetesnya tidak boleh dikawal Insulin diberikan oleh doktor yang dimakan. 0
 - Terdapat pelbagai jenis insulin bergantung kepada kepentingan serta sejauh mana tindakannya dapat kekal. J

Contoh insulin :-

- Monotard, Protophana, Humilin N insulin manusia (lernih) Actrapid - Actraphane Tindakan jangka panjang Tindakan jangka pendek Tindakan sederhana

Insulin perlu di suntik di bawah kulit dengan menggunakan jarum dan "syringe" yang telah disucihama.

THE RESERVE OF THE PARTY OF THE

 Insulin tidak boleh di makan kerana apabila ditelan ianya cepat musnah oleh jus penghadam di dalam perut dan tidak akan sampal ke seluruh sel badan untuk membantu mereka mendapatkan glukosa

Apakah cara yang betul untuk memberikan suntikan?

Arahan terperinci tentang bagaimana menyuntik diri anda sendiri boleh di dapati dari doktor dan paramedik anda.

- pegang di antara dua hujung jari dari hujung ke hujung botol itu Jangan goncang botol dengan kuat sebelum digunakan tetapi atau golekkan ia perlahan-lahan antara dua tapak tangan anda. o
- Selalu periksa dos di dalam "syringe" sekurang-kurangnya dua kali sehari sebelum disuntik. o
- Cuci tempat yang hendak disuntik itu bersih-bersih dengan antiseptik seperti alkohol. O
- yang sama setiap kali suntikan, benjolan atau lubang mungkin terjadi pada kulit selepas beberapa ketika. Insulin tidak dapat diserap Tukar tempat suntikan setiap hari. Jika anda menggunakan tempat dengan baik di tempat-tempat berkenaan. ø
- suntikan di kawasan perut adalah lebih baik. Semasa melakukan Tempat-tempat yang sesuai untuk disuntik ialah bahagian lengan atas, paha atas, bahagian atas pinggul dan perut. Bagaimanapun senaman yang serius cuba elakkan kawasan-kawasan badan yang mungkin terdedah kepada jangkitan misalnya paha. O
- Jangan menyuntik insulin yang sejuk.

Apa harus saya lakukan jika anda terlupa satu dos?

- Jadikan suntikan insulin sebagai sebahagian dari jadual harian anda supaya anda tidak terlupa mana-mana dos.
- Jika anda terlupa mana-mana dos, lupakan dos tersebut dan pastikan dos berikutnya diambił tepat pada masanya. ╗

Hubungi doktor anda jika terdapat kemerahan atau bengkak di tempat suntikan, gatal-gatal kulit atau tanda gula darah rendah seperti berpeluh dan denyutan jantung kencang.

Apakah langkah keselamatan yang perlu saya ambil?

- Elakkan minuman beralkohol.
- Selaiulah hubungi doktor anda untuk mendapatkan nasihat sebelum mengambil ubat lain.
- Selalu memaklumkan kepada doktor sebelum sebarang pembedahan, rawatan atau rawatan pergigian.

Bagaimanakah harus saya menyimpan insulin?

- ☐ Insulin hendaklah disimpan di dalam peti sejuk tetapi BUKAN di dalam ruang sejuk beku. Bebuli (vial) yang digunakan bolehlah disimpan didalam tempat sejuk (maksimum 25°C) dan jauh dari cahaya matahari.
- Jauhi ubat dari kanak-kanak.

Ingat:-

Jika anda mempunyai sebarang kemusykilan tentang ubat anda, HUBUNGI DOKTOR ATAU AHLI FARMASI ANDA



Modul 5

🙀 PENGURUSAN DIABETES PADA MASA TERTENTU 🎉

Kawalam diabetes yang baik pada umumnya memerlukan azam yang kuat dan stabil dari segi diet, senaman dan perubatan. Bagaimanapun semasa menjalani kehidupan, seseorang individu itu akan menemui situasi tertentu yang akan mengganggu keharmonian ini, menyebabkannya kehilangan azam untuk mengawal diabetes. Gangguan ini memerlukan penyesuaian yang khusus terhadap pengambilan ubat, diet dan senaman.

1. Bulan Puasa

- Puasa boleh diamalkan oleh mereka yang mempunyai kawalan diabetes yang baik dan dalam keadaan kesihatan yang baik.
- Puasa hendaklah dilakukan dengan nasihat dan persetujuan doktor.
- Di mana terdapat kontraindikasi bahawa apabila puasa boleh menjejaskan kesihatan pesakit secara serius, individu berkenaan hendaklah menghentikan berpuasa (mengikut kebenaran yang diharuskan oleh agama)
- Di mana perlu, nasihat diet hendaklah didapatkan dari pakar misalnya Penyelia Jenis Makanan.
 - Apa jua penyesuaian yang dibuat hendaklah tidak dilaksanakan dengan terlalu ketat.

2. Perjalanan

- Rancangtah jadual perjalanan anda dengan awal
- Hubungi doktor anda sebelum melakukan perjalanan jika anda ragu-ragu tentang kawalan diabetik dari segi taraf kesihatan anda.
- Pastikan bekalan rawatan anda boleh diperolehi di seliap destinasi anda. Bagi pesakit yang menggunakan insulin pastikan "syringe" dan pengesat adalah mencukupi.
- Seboleh-bolehnya ikutilah jadual yang sama misalnya waktu makan. Bawa bersama anda satu bungkusan snek bagi perjalanan yang jauh.
 - Seboleh-bolehnya teruskan tabiat senaman anda
- Sertai "Medic Alert" atau pertubuhan yang sama atau bawa bersama anda pengenatan perubatan atau kad rawatan.

Modul 6

Jika dijemput ke parti/jamuan makan malam tidak bererti ia akan menjejaskan anda dengan syarat :

- Anda menyesuaikan pengambilan makanan anda dalam bersiap sedia menghadiri jamuan sosial jika jamuan ini akan berlangsung agak lewat.
- Pastikan anda memilih makanan yang sesuai dan dalam cuantiti yang betul :≓
 - bahagian anda di rumah dan lakukan penyesuaian yang perlu Jika boleh, makan makanan biasa anda atau makanan dan imbangilah ia semasa anda berada di jamuan sosial. ≔

Mengandung 4

- Rancangan kehamilan anda dan beritahu doktor sebelum nengandung tentang rancangan anda supaya ubat diabetes anda boleh bertukar kepada insulin.
 - Hubungi doktor dan Penyelia Jenis Makanan anda.
- Patuhi semua arahan doktor dan Penyella Jenis Makanan dari segi diet, senaman dan rawatan.
 - Sebaik sahaja anda disahkan hamil, aturkan susulan yang rapi dengan Pakar Perbidanan di samping doktor biasa anda.
 - Rancanglah kelahiran dihospital
- Jika terdapat kontraindikasi, sesorang itu hendaklah mengelakkan dari hamil.
- Amalkan perangcang keluarga
- Kalau diabetes tidak dikawal semasa mengandung keguguran dan kecacatan mungkin berlaku

Penyakit Ringan က်

- Penyakit ringan mengganggu kawalan diabetik dengan menjejaskan selera makan, menyebabkan tekanan, menjejaskan proses dan permintaan metabolik fisiologi.
- Apabila sakit, hubungi doktor anda untuk nasihat yang perlu mengenai rawatan
 - Selalu pastikan pengambilan makanan yang mencukupi apabila ubatan diambil.
- Walaupun anda tidak boleh makan terlalu banyak, khususnya ika anda merupakan pesakit diabetik yang bergantung pada insulin anda perlu terus mengambil insulin mengikut dos yang
- Pastikan anda meminum air dan cecair yang mencukupi.
- Penyesuaian insulin mungkin perlu ada arahan hendaklah dipatuhi dengan tepat
 - Apabila ragu-ragu, hubungi doktor anda.
- Sebelum apa-apa pembedahan, tolong memberitahu doktor, anda adalah seorang pesakit diabetes. ဖ

Pada masa ini diabetes tidak dapat disembuh, jadi pesakit diabetes perlu bertanggungjawab menjaga penyakit mereka. Setlap pesakit perlu memperkuasai diri dengan cukup pemahaman dan pengetahuan tentang diabetes, komplikasinya dan pengurusannya. Pengurusan diri diabetes ialah satu pelan yang merangkumi pengurusan pengambilan makanan, peningkatan tahap aktiviti fizikal pemantauan tahap glukos dalam darah, pengawalan berat badan sihat. dan pengambilan ubatan/insulin.

PEMANTADAN TAHAP GULA DALAM DARAH

Pesakit boleh melakukan ujian ini sendiri dengan menggunakan alat khas (glucometer) yang boleh didapati di kedai farmasi. Pengukuran paras gula darah pada masa tertentu adalah amat berguna untuk pengawalan diabetes. Contohnya ujian gula darah satu atau dua jam selepas makan dapat menunjukkan berapa tinggi paras gula darah naik apabila kita memakan sesuatu jenis/jumlah makanan yang dimakan. Kekerapan gula darah yang diuji bergantung kepada tahap penyakit stau nasihat doktor.

Tahap kawatan yang dikehendaki ialah :

Sebelum makan		4-7mmol/l
Postmeal		bawah 10mmol
Bedtime	•	6mmol/l

5

Paras glucose	Sebelum makan, puasa	Nasihat
Normal	4-7mmol/i	Sambung ujian seperti biasa.
Tinggi sedikit	7-10	Hubungi doktor untuk rawatan jika berterusan.
Meningkat	10-16.7	Jalani ujian keton darah.
Tinggi	>16.7	Jalani ujian keton darah.

Kekerapan menguji paras gula dalam darah bergantung kepada cara hidup dan tahap penyakit diabetes masing-masing. Berbincanglah dengan petugas kesihatan anda.

CONTRACTOR OF THE STATE OF THE A. V. C.

Hipoglicemia ialah keadaan di mana paras gula darah terlalu rendah dari tahap normal. Ia boleh berlaku disebabkan oleh

- Tidak mengikuti jadual/ pelan pemakanan yang betul-makan terlalu sedikit atau menukar masa makan. .:
 - Terlatu banyak senaman yang tidak dirancang/terlatu lama tanpa Snack αí
 - Makan ubat berlebihan atau menukar masa makan ubat က
 - Tekanan

 - Kesan sampingan ubatan lain ഗ്ര
 - Pengambilan alkohol

Salah satu atau kombinasi faktor diatas boleh menyebabkan hipoglisemia.

Apakah gejala hipoglisemia

- Terasa lapar
 - Berpeluh
- Menggigil/sejuk Loya
- Kabur penglihatan
 - Kebas lidah/bibir
- Peningkatan degupan jantung Keletihan
 - Keliru dan koma Pengsan

Apakah yang harus dilakukan jika terjadi hipoglisemia

Jika boleh buat kajian ujian gula dalam darah kerana sesetengah pesakit liada tanda hipoglisemia tetapi tahap gula dalam darahnya rendah sementara bagi sesetengahnya pula mempunyai tanda hipoglisemia sedangkan hakikat sebenarnya tidak. Ambil karbohidrat yang cepat meresap seperti jus buah-buahan (oren/ epal), tablet glukos, madu dan gula-gula. Berehat selama 10-15 minit untuk membolehkan badan meresapkan gula tersebut. Jika tidak merasa pulih ulangi rawatan yang sama. Jika gejala berterusan dapatkan nasihat dan rawatan doktor.

dengan jari yang telah dicelupkan dalam larutan gula. DILARANG KERAS memasukkan cecair ke dalam mulut pesakit yang koma kerana Jika pesakit tidak sedarkan diri, hendaklah membasuhkan mulut pesakit boleh menyebabkan penyedutan cecair ke paru-paru. Bawa'ah pesakit ke klinik dengan segera. Pencegahan adalah lebih baik dari berubat. Hipoglisemia boleh mernbawa maut.

KETOACIDOSIS

Adalah keadaan di mana paras glukos yang tinggi dalam darah menyebabkan pengumpulan bahan toxic (keton) dalam badan dan menyebabkan acidiosis dan boleh membawa maut.

Faktor penyebab:

- Kegagalan mengambil insulin bagi pesakit yang bergantung kepada insulin. O
- Terjadinya tekanan pada pesakit diabetes iaitu jangkitan kuman, serangan jantung, stroke dan lain-lain.

Tanda-tanda awal:

- Dahaga
- Mulut kering σσσσ
- Polyuria
- Paras glukos tinggi dalam darah

Tanda kemudian: (Later symptoms)

- □ Loya/Muntah
- Kurang selera/Keletihan O
- Dahaga dan dehydrasi
 - Nafas berbau keton Kesakitan perut 000000
 - Keliru
- Kehilangan berat badan Rabun mata tiba-tiba
 - Bernafas dengan laju

diabetes
-
type
Pesakit

Semasa tidak sihat, jangkitan kuman atau munth-muntah Pesakit kanak-kanak atau remaja onon

Kegagalan mengambil insulin bagi pesakit yang bergantung kepada nsulin

Pesakit berumur yang mempunyai pelbagai jenis penyakit Perempuan mengandung dengan type 1 diabetes \Box

Bagaimana mencegah DKA (Diabetic Ketoacidosis)

Ujian keton atau pengesanan paras keton darah yang awal dan tindakan yang segera dapat mencegah dari terjadinya ketoacidosis. Pesakit diabetes perlu mengenali tanda-tanda diabetes ketoacidosis dan mendapatkan rawatan yang segera jika mengalami perkara tersebut.

Ujlan keton darah

Paras keton (mmol/l)	Nasihat
<0.6	sambung ujian glukos darah
0.6 – 1.5	ulangi ujian glukos dan keton darah dalam masa 2-4 lam
1.5 – 3	risiko dapat diabetic ketoacidosis hubungi doktor segera
>3	kecemasan segera ke jabatan kecemasan

Tahap kawalan gula darah (diabetes) yang baik adalah amat penting untuk mencegah komplikasi-komplikasi akibat diabetes. Kesedaran dan motivasi serta kerjasama pesakit adalah amat mustahak dalam menangani masalah penyakit kronik seperfi diabetes. Hypoglycemia, diabetic ketoacidosis boleh membawa maut. Tindakan segera adalah amat penting.



APPENDIX F

EXPERT LIST

Five experts were examined the content validity of the instrument for Type 2 persons.

There are

1. Professor Mafauzy Mohamed

Diabetologist, School of Medical Science, University Science Malaysia, Health Campus, Kubang Kerian, Kelantan.

2. Dr. Kanittha Naka

Nursing Lecturer, Department of Surgical Nursing, Faculty of Nursing, Prince of Songkla University, Thailand.

3. Dr. Sudsiri Hirunchunha

Nursing Lecturer, Department of Surgical Nursing, Faculty of Nursing, Prince of Songkla University, Thailand.

4. Mrs. Rogayah Abdul Rahim

Nursing Lecturer of Nursing Program, University Science Malaysia, Health Campus, Kubang Kerian Kelantan.

5. Mrs. Shareen Nui

Diabetes Educator at Diabetes Clinic, University Hospital Science Malaysia, Kubang Kerian, Malaysia.

EXPERT LIST (Continued)

Four experts were evaluated the content of Supportive-Developmental Nursing Plan for the Type 2 persons. There are

- 1. Professor Mafauzy Mohamed
 - Diabetologist, School of Medical Science, University Science Malaysia, Health Campus, Kubang Kerian, Kelantan.
- 2. Assistant Professor Dr. Pleonpit Thaniwatthananon

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3. Dr. Sudsiri Hirunchunha

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4. Mrs. Rogayah Abdul Rahim

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EXPERT LIST (Continued)

Two persons worked on the translation of the instrument:

1. Translation on the instruments

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2. Final checked by

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