APPENDIX – H -1

Data Collection Instrument

Tool to assess the effect of planned teaching on knowledge and practices in relation to selected components of health- related quality of life (HRQoL) in hemodialysis patients. This tool consists of structured interview schedule which has 4 parts

PART I Part I-A : Demographic Characteristics (16 items)

Part I-B : Medical characteristics (16 Items)

PART II Part II-A : Knowledge of anatomy and physiology of kidney,

kidney disease and its treatment (21 items)

Part II-B : Knowledge related to symptoms of hemodialysis

patients (selected components of HRQoL) (12 Items)

PART III Part III-A: HRQoL related to selected components (12 items)

Part III-B : Practices related to selected components of HRQoL

(12 Items)

PART IV Part IV : Views of patients about instruction manual (10 items)

Instructions:

- 1. Part I-A & Part I-B- Place a check mark () against the choice
- 2. <u>Part II-A</u>, <u>Part II-B</u> & <u>Part III-B</u> Give 1 mark for the each right answer & 0 for the wrong answer
- 3. Except in Part II-A, Item No. 2.2, 2.3, 16.1, 17.1, 17.2, 18.2, 18.3, 19.1 all the answers are right answers.
- 4. <u>Part III-A</u> The symptoms if present during the past one week to be ranked according to the intensity as perceived by the subjects during pre test and post test.
- 5. <u>Part III-B</u> To be administered to only those who are experiencing the particular symptoms during the past one week during pre test or post test.

Structured Interview Schedule

Part-I A

Demographic Characteristics

		Demographic Charact	eristics	
1.	Your Name	÷		
2	Age in years	:	2.1	18 to 39
		:	2.2	40 to 49
		:	2.3	50 to 59
		:	2.4	60 to 69
3	Gender	÷	3.1	Male
		:	3.2	Female
4	Marital status	÷	4.1	Unmarried
		:	4.2	Married
		:	4.3	Widowed
5	Type of Family	:	5.1	Nuclear
		:	5.2	Joint
		:	5.3	Extended
6	Care Giver	:	6.1	Wife
		:	6.2	Husband
		:	6.3	Mother
		:	6.4	Father
		:	6.5	Son
		:	6.6	Daughter-in-law
		:	6.7	Daughter
		:	6.8	Any other

7	Education:	:	7.1	Illiterate
	Self	:	7.2	Primary
		:	7.3	Secondary
		:	7.4	Higher Secondary
		:	7.5	Graduate/Diploma & above
7.1	Spouse/Care taker	:	7.1.1	Illiterate
		:	7.1.2	Primary
		:	7.1.3	Secondary
		:	7.1.4	Higher Secondary
		:	7.1.5	Graduate/Diploma & above
8	Occupation :	:	8.1	Home bound
	Self	:	8.2	Professional
		:	8.3	Clerical
		:	8.4	Technical
		:	8.5	Business
		:	8.6	Laborer
		:	8.7	Agriculturist
		:	8.8	Student
		:	8.9	Unemployed
		:	8.10	Retired
		:	8.11	Disabled
8.1	Spouse/Care taker	:	8.1.1	Home bound
		:	8.1.2	Professional
		:	8.1.3	Clerical
		:	8.1.4	Technical
		:	8.1.5	Business
		:	8.1.6	Laborer
		: :		

		:	8.1.7	Agriculturist
		:	8.1.8	Student
		:	8.1.9	Unemployed
		:	8.1.10	Retired
		:	8.1.11	Disabled
9	Total income per month in Rupees	:	9.1	< 5000
		:	9.2	5001-10000
		:	9.3	10001-15000
		:	9.4	15001-20000
		:	9.5	>20001
10	Number of family members	:	10.1	One
		:	10.2	Two
		:	10.3	Three
		:	10.4	Four
		:	10.5	More than four
11	Source of payment for hemodialysis	:	11.1	Self
		:	11.2	Employer
		:	11.3	Insurance
		:	11.4	Charity Trust
		:	11.5	Pension
		:	11.6	Parents
		:	11.7	Other
12	Place of residence and address	:	12.1	Suburban
		:	12.2	Urban
		:	12.3	Rural
13.	Mode of travel for attending	:	13.1	Drive self
	hemodialysis	:	13.2	By taxi/auto

13.3 By public transport : : By walk 13.4 Total time spent for dialysis excluding dialysis time (per dialysis) 14. 14.1 Up to 2 hours 14.2 2 to 4 hours 14.3 4 to 6 hours 14.4 6 to 8 hours More than 8 hours 15.5

Part-I B

Medical Characteristics

				D: 1
1.	Your primary cause of kidney disease	:	1.1	Diabetes
		:	1.2	Hypertension
		:	1.3	Infections
		:	1.4	Drugs
		:	1.5	Any other
2.	Co-morbid conditions	:	2.1	Diabetes
		:	2.2	Hypertension
		:	2.3	Diabetes & Hypertension
		:	2.4	Infections
		:	2.5	Any other
3.	Adherence to hemodialysis schedule	:	3.1	Once a week
		:	3.2	Twice a week
		:	3.3	Thrice a week
4.	Length of time on hemodialysis	:	4.1	1 to 6 months
	treatment	:	4.2	6 months to 1 years
		:	4.3	1 year to 3 years
		:	4.4	3 to 5 years
		:	4.5	> 5 years
5.	Adherence to medications	:	5.1	All
		:	5.2	Some-specify
		:	5.3	Non
6.	Dietary Habits	:	6.1	Vegetarian
		:	6.2	Non Vegetarian
7.	Hemoglobin	:	7.1	< 5 gms
		:	7.2	5.1 to 7 gms

		:	7.3	7.1 to 10 gms
		:	7.4	> 10 gms
8.	Blood transfused in last 30 days	:	8.1	Yes
		:	8.2	No
9.	Serum Albumin	:	9.1	< 4.0 gm/dl
		:	9.2	> 4.1 gm/dl
10			10.1	× 1.5.1
10.	Inter dialytic weight gain (Median of last 3 readings)	:	10.1	< 1.5 kgs
		:	10.2	1.6kgs -3 kgs
		:	10.3	3.1 kgs -4.5 kgs
		:	10.4	> 4.6 kgs
11.	Rate of blood flow through access/minute	:	11.1	< 200ml
	access/minute	:	11.2	201 ml – 300 ml
		:	11.3	> 301 ml
12.	General nutritional status	:	12.1	Good
		:	12.2	Poor
13.	Body Mass Index	:	13.1	< 18.5
		:	13.2	18.6 - 24.9
		:	13.3	> 25
14.	Taking erythropoietin injection	:	14.1	Yes
		:	14.2	No
1.5	Dungan as of blooding	_	1.5.1	Vaa
15.	Presence of bleeding	•	15.1	Yes
		:	15.2	No
16.	Any hospitalization within 30 days	:	16.1	Yes
-	J 1	:	16.2	No
		-	-	

Instructions:

The questions will be read out to you. Please give your answers Yes, No, or Do not know. Please note that more than one answer can be correct .please answer as honestly as possible.

PART-II-A

PRE & POST TEST

KNOWLEDGE OF ANATOMY AND PHYSIOLOGY OF KIDNEY,

KIDNEY DISEASE AND ITS TREATMENT

1	Where	the	kidnev	s are	situated?
	,,,,,,,,	ULIU	ili aii o ,	S are	Ditactou.

1.1 In the abdomen behind the lower : Yes / No / Do not know

ribs along the spinal column

1.2 In the pelvic region : Yes / No / Do not know

1.3 On either side of abdomen : Yes / No / Do not know

2. Parts of the urinary system are

2.1 Kidneys : Yes / No / Do not know

2.2 Ureters : Yes / No / Do not know

2.3 Urinary bladder : Yes / No / Do not know

2.4 Urethra Yes / No / Do not know

3. What are the functions of kidneys?

3.1 Gets rid of waste products : Yes / No / Do not know

3.2 Balances the body's fluid content : Yes / No / Do not know

3.3 Maintains salt levels : Yes / No / Do not know

3.4 Controls Blood Pressure : Yes / No / Do not know

3.5 Helps to make red blood cells : Yes / No / Do not know

3.6 Maintains healthy bones : Yes / No / Do not know

4. What are the common causes of kidney failure?

4.1 Diabetes : Yes / No / Do not know

	4.2	High blood pressure	:	Yes / No / Do not know
	4.3	Repeated kidney infections	•	Yes / No / Do not know
	4.4	Stones in the kidney	•	Yes / No / Do not know
	4.5	Hereditary conditions	:	Yes / No / Do not know
	4.6	Toxic drugs	:	Yes / No / Do not know
	4.7	Toxic substances	:	Yes / No / Do not know
5.	What ar	e the changes in the body when kidney	fails?	
	5.1	Kidneys continue to produce urine in small quantities or stops	:	Yes / No / Do not know
	5.2	Salt and waste products get collected in the blood	:	Yes / No / Do not know
	5.3	All the organs in the body get affected	:	Yes / No / Do not know
	5.4	Bone marrow produces less red blood cells	:	Yes / No / Do not know
6.	What ar	e some of the signs and symptoms of ea	arly s	tages of kidney failure?
	6.1	High blood pressure	:	Yes / No / Do not know
	6.1 6.2	High blood pressure Blood in urine	:	Yes / No / Do not know Yes / No / Do not know
			: :	
	6.2	Blood in urine	: : :	Yes / No / Do not know
	6.2 6.3	Blood in urine Foaming urine	: : : : : : : : : : : : : : : : : : : :	Yes / No / Do not know Yes / No / Do not know
7.	6.26.36.46.5	Blood in urine Foaming urine Puffiness around the eyes	: : : : tient	Yes / No / Do not know
7.	6.26.36.46.5What ar	Blood in urine Foaming urine Puffiness around the eyes Fever	: : : : tient	Yes / No / Do not know
7.	6.26.36.46.5What ar failure?	Blood in urine Foaming urine Puffiness around the eyes Fever e the signs and symptoms present in pa	: : : : tient	Yes / No / Do not know with end stage kidney
7.	6.26.36.46.5What ar failure?7.1	Blood in urine Foaming urine Puffiness around the eyes Fever the signs and symptoms present in pa	: : : : tient	Yes / No / Do not know with end stage kidney Yes / No / Do not know
7.	6.26.36.46.5What ar failure?7.17.2	Blood in urine Foaming urine Puffiness around the eyes Fever e the signs and symptoms present in pa Swelling of body Less quantity of urine or no urine	: : : : tient '	Yes / No / Do not know with end stage kidney Yes / No / Do not know Yes / No / Do not know
7.	6.26.36.46.5What ar failure?7.17.27.3	Blood in urine Foaming urine Puffiness around the eyes Fever e the signs and symptoms present in pa Swelling of body Less quantity of urine or no urine Increased BP	: : : : tient '	Yes / No / Do not know with end stage kidney Yes / No / Do not know Yes / No / Do not know Yes / No / Do not know
7.	6.26.36.46.5What ar failure?7.17.27.37.4	Blood in urine Foaming urine Puffiness around the eyes Fever e the signs and symptoms present in pa Swelling of body Less quantity of urine or no urine Increased BP Nausea and vomiting	: : : : : : :	Yes / No / Do not know with end stage kidney Yes / No / Do not know
7.	6.26.36.46.5What ar failure?7.17.27.37.47.5	Blood in urine Foaming urine Puffiness around the eyes Fever the the signs and symptoms present in particles and symptoms present in particles quantity of urine or no urine Increased BP Nausea and vomiting Tiredness	: : : : : : : :	Yes / No / Do not know with end stage kidney Yes / No / Do not know
7.	 6.2 6.3 6.4 6.5 What ar failure? 7.1 7.2 7.3 7.4 7.5 7.6 	Blood in urine Foaming urine Puffiness around the eyes Fever the the signs and symptoms present in particles and symptoms present in particles quantity of urine or no urine Increased BP Nausea and vomiting Tiredness Breathlessness	: : : : : : : : :	Yes / No / Do not know with end stage kidney Yes / No / Do not know

8. What are the treatments for chronic kidney disease of end stage kidney failure? 8 1 Medicines alone Yes / No / Do not know 8.2 Medicines and special diet Yes / No / Do not know 8.3 Medicine + Special diet + Dialysis Yes / No / Do not know Kidney transplantation + medicines 84 Yes / No / Do not know 9. What are the different types of medicines that H D patients are advised? 9.1 Anti hypertensive's Yes / No / Do not know 9.2 phosphate binders Yes / No / Do not know 9.3 Calcium tablets Yes / No / Do not know 9.4 Iron tablets and Epojen injection Yes / No / Do not know 9.5 Yes / No / Do not know Alkalysers Vitamins 9.6 Yes / No / Do not know 9.7 **Stool Softeners** Yes / No / Do not know What are the important points to be remembered regarding medicines? 10. 10.1 Get instructions about taking of Yes / No / Do not know medicines 10.2 Fix a routine for taking medicines Yes / No / Do not know 10.3 Yes / No / Do not know Learn about medicines affected by dialysis and should be taken before or after dialysis 10.4 Buy medicines from same shop : Yes / No / Do not know Carry always the list of medicines 10.5 Yes / No / Do not know 10.6 Never take any other medicines Yes / No / Do not know without doctor's order 10.7 Avoid drugs containing aluminum Yes / No / Do not know phosphate, potassium& sodium What are the food items allowed in patients on hemodialysis? 11.

Normal to high protein of first class :

type (high biological value)

Yes / No / Do not know

Yes / No / Do not know

Energy giving food Fiber rich food 113 Yes / No / Do not know 12. What are the food items restricted in hemodialysis patients? 12.1 Salt& sodium containing food Yes / No / Do not know 12.2 Potassium rich food Yes / No / Do not know 12.3 Phosphorous rich food Yes / No / Do not know 13. What important points to be remembered regarding diet by hemodialysis patients? 13.1 Know the reasons for special diet Yes / No / Do not know 13.2 Talk to your dietitian about creating Yes / No / Do not know an eating plan 13.3 Make a fluid plan including all types : Yes / No / Do not know of fluid for 24 hours Take protein as advised Yes / No / Do not know 13.4 13.5 Take food supplements as advised Yes / No / Do not know by doctor 13.6 Take iron rich food Yes / No / Do not know 13.7 Limit foods that are high in Yes / No / Do not know potassium 13.8 Limit milk and milk products or Yes / No / Do not know Replace with nondairy substitutes. Discard liquids from canned fruits 13.9 Yes / No / Do not know and vegetables. Yes / No / Do not know 13.10 Avoid salt substitutes and other seasonings that contain potassium 13.11 Read labels on "low salt" or "low Yes / No / Do not know sodium" packaged foods to be sure ingredients like potassium chloride are not added. 13.12 Keep an eye on serving size. Yes / No / Do not know 13.13 Leach high potassium vegetables Yes / No / Do not know

	13.14	Do not skip dialysis	:	Yes / No / Do not know		
14.	What a	re the types of dialysis?				
	14.1	Hemodialysis	:	Yes / No / Do not know		
	14.2	Peritoneal dialysis	:	Yes / No / Do not know		
15.	How de	oes hemodialysis work				
	15.1	Exchange of blood	:	Yes / No / Do not know		
	15.2	Removes excess water	:	Yes / No / Do not know		
	15.3	Balances electrolytes	:	Yes / No / Do not know		
	15.4	Removes wastes & toxins	:	Yes / No / Do not know		
16.		nany times a week hemodialysis she patients?	ould be do	ne for ends stage renal		
	16.1	Once a week	:	Yes / No / Do not know		
	16.2	Twice a week	•	Yes / No / Do not know		
	16.3	Thrice a week	:	Yes / No / Do not know		
17.	What is	s the normal duration of hemodial	ysis sessior	n?		
	17.1	Four hours	:	Yes / No / Do not know		
	17.2	Three hours	:	Yes / No / Do not know		
	17.3	Two hours	:	Yes / No / Do not know		
18.	What is the quantity of blood runs through the machine every minute during hemodialysis?					
	18.1	Less than 200 ml	:	Yes / No / Do not know		
	18.2	201 ml to 300 ml	:	Yes / No / Do not know		
	18.3	more than 301 ml	:	Yes / No / Do not know		
19.	What a	re the types of access to blood stre	eam for dia	lysis?		
	19.1	Fistula	:	Yes / No / Do not know		
	19.2	Graft	:	Yes / No / Do not know		

19.3 Perma cath catheter : Yes / No / Do not know

19.4 Central venous catheter : Yes / No / Do not know

20. What are the symptoms of the patient when dialysis is not adequate?

20.1 Swelling of body : Yes / No / Do not know

20.2 Body pain : Yes / No / Do not know

20.3 Nausea, vomiting : Yes / No / Do not know

20.4 Cramps : Yes / No / Do not know

20.5 Itching of the skin : Yes / No / Do not know

20.6 High blood pressure : Yes / No / Do not know

20.7 Changes in potassium level : Yes / No / Do not know

20.8 Breathing difficulty : Yes / No / Do not know

21. What are the blood tests to be done every month when on hemodialysis?

21.1 Urea : Yes / No / Do not know

21.2 Creatinine : Yes / No / Do not know

21.3 Potassium : Yes / No / Do not know

21.4 Calcium : Yes / No / Do not know

21.5 Phosphorous : Yes / No / Do not know

21.6 Albumin : Yes / No / Do not know

21.7 Hemoglobin : Yes / No / Do not know

21.8 Hepatitis B&C : Yes / No / Do not know

21.9 H.I.V. : Yes / No / Do not know

Part-II-B

$Knowledge\ Related\ to\ Symptoms/Problems\ of\ Hemodialysis\ Patients$

(Health Related Quality of Life)

1. What do you think are the reasons for breathing difficulty in patients on H.D. from the following?

1.1 Excess fluid intake
1.2 Intake of salt and salty food
1.3 Rise of BP
1.4 Excess inter dialytic weight gain
1.5 Anemia
Yes / No / Do not know

1.6 Irregular dialysis : Yes / No / Do not know

2. What do you think are the causes of excessive thirst and dry mouth in patients on H.D from the following?

2.1 Restricted fluid intake
2.2 More salt intake
3.3 Yes / No / Do not know
4.3 Yes / No / Do not know
5. Yes / No / Do not know

2.3 More sweet intake : Yes / No / Do not know

 $2.4 \qquad \text{Side effect of some medication} \qquad : \qquad \text{Yes / No / Do not know}$

2.5 Irregular dialysis : Yes/No/Do not know

3. What do you think are the causes of loss of taste & appetite in patients on H.D. from the following?

3.1 Collection of waste products in the : Yes / No / Do not know body

3.2 Side effect of some medication : Yes / No / Do not know

3.3 Dry mouth : Yes / No / Do not know

3.4 Lack of exercise : Yes / No / Do not know

3.5 Anemia : Yes / No / Do not know

3.6 Irregular dialysis : Yes / No / Do not know

4. What do you think are the causes of constipation in H.D. patients from the following?

4.1 Restricted fluid intake : Yes / No / Do not know

4.2 Lack of intake of vegetables & fruits : Yes / No / Do not know

4.3 Lack of activities : Yes / No / Do not know

4.4 Absence of exercise : Yes / No / Do not know

4.5 Effect of certain medication : Yes / No / Do not know

(Lophos)

4.6 Irregular dialysis : Yes / No / Do not know

5. What do you think are the causes of body pain (Headache, soreness in muscles, Joint pain, back pain) in HD patients from the following?

5.1 Swelling of body including fistula : Yes / No / Do not know

site

5.2 Changes in B P : Yes / No / Do not know

5.3 Calcium deficiency : Yes / No / Do not know

5.4 Changes in potassium level : Yes / No / Do not know

5.5 Involvement of bone : Yes / No / Do not know

5.6 Aluminum toxicity : Yes / No / Do not know

5.7 Lack of activities & exercises : Yes / No / Do not know

5.8 Lying down most of the time : Yes / No / Do not know

5.9 Anemia : Yes / No / Do not know

5.10 Irregular dialysis : Yes / No / Do not know

6. What do you think are the causes of cramps during and after dialysis?

6.1 Rapid removal of excess fluid : Yes / No / Do not know

during H.D.

6.2 Rapid change in level of sodium : Yes / No / Do not know

6.3 Low calcium level : Yes / No / Do not know

6.4 Cold extremities : Yes / No / Do not know

6.5 Irregular dialysis : Yes / No / Do not know

Yes / No / Do not know

7. What do you think are the causes of weakness after dialysis? 7.1 Rapid removal of excess fluid Yes / No / Do not know during H.D. 7.2 Lack of food intake Yes / No / Do not know 7.3 Changes in blood pressure Yes / No / Do not know 7.4 Low hemoglobin Yes / No / Do not know 7.5 Irregular dialysis Yes / No / Do not know 8. What do you think are the causes of disturbed sleep in HD patients from the following? 8.1 Breathlessness due to fluid retention Yes / No / Do not know 8.2 Body pain Yes / No / Do not know 8.3 Cramps Yes / No / Do not know Change in blood pressure 8.4 Yes / No / Do not know 8.5 Day time sleeping Yes / No / Do not know 8.6 Lack of exercise Yes / No / Do not know 8.7 Intake of tea or coffee in the evening Yes / No / Do not know 8.8 Irregular dialysis Yes / No / Do not know 9. What do you think are the causes of dryness and itching of the skin in H.D. patients from the following? 9.1 Increased level of phosphate Yes / No / Do not know 9.2 Deposition of urea on the skin Yes / No / Do not know 9.3 Lack of oil on the skin Yes / No / Do not know 9.4 Use of strong soap for bath Yes / No / Do not know 9.5 Use of too much detergents on Yes / No / Do not know clothes 9.6 Allergy to the dialysate Yes / No / Do not know

9.7

Irregular dialysis

10. What do you think are the causes of restricted mobility in H.D. patients from the following? 10.1 Swelling of body Yes / No / Do not know 10.2 Fatigue Yes / No / Do not know 10.3 Body pain Yes / No / Do not know 10.4 Lack of exercise Yes / No / Do not know 10.5 Lack of protein in the diet Yes / No / Do not know 10.6 Lack of control of sodium & Yes / No / Do not know potassium in the diet 10.7 Fear of worsening of symptoms Yes / No / Do not know 10.8 Presence of infections Yes / No / Do not know 10.9 Yes / No / Do not know Dizziness & fainting 10.1 Restricted by family members Yes / No / Do not know 0 10.1 Yes / No / Do not know Irregular dialysis 1 What do you think are the causes of dialysis access failure? 11. 11.1 Low blood pressure Yes / No / Do not know 11 2 Bleeding from the puncture site Yes / No / Do not know 11.3 Clot formation in the vascular access Yes / No / Do not know 11.4 Swelling of the affected hand Yes / No / Do not know Infection at the puncture site Yes / No / Do not know 11.5 12. What do you think are the causes of sexual dysfunction in HD patients? 12.1 Changes in hormones Yes / No / Do not know 12.2 High B.P. or Low B.P. Yes / No / Do not know 12.3 Tiredness Yes / No / Do not know 12.4 Anemia Yes / No / Do not know 12.5 Effect of medicines used for high B.P.: Yes / No / Do not know

126

12.7

12.8

Fear and ignorance of spouse

Lack of exercise

Irregular dialysis

Yes / No / Do not know

Yes / No / Do not know

Yes / No / Do not know

PART-III-A

Assessment of symptoms/problems of Hemodialysis Patients or

HRQoL related to selected components

Many patients on hemodialysis have symptoms/problems due to the disease and treatment. Do you have these symptoms/problems? If so please rate them according to the key given below.

0 = Not at All

1 = Somewhat

2 = Moderately

3 = Very Much

1. Breathing difficulty : Not at All/Somewhat/Moderately/Very Much

2. Excessive thirst and dry : Not at All/Somewhat/Moderately/Very Much

mouth

3. Loss of taste & appetite : Not at All/Somewhat/Moderately/Very Much

4. Constipation : Not at All/Somewhat/Moderately/Very Much

5. Body pain : Not at All/Somewhat/Moderately/Very Much

6. Cramps after dialysis : Not at All/Somewhat/Moderately/Very Much

7. Weakness after dialysis : Not at All/Somewhat/Moderately/Very Much

8. Disturbed sleep : Not at All/Somewhat/Moderately/Very Much

9. Dry skin & itching of skin : Not at All/Somewhat/Moderately/Very Much

10. Restricted mobility : Not at All/Somewhat/Moderately/Very Much

11. Clotting or problem with : Not at All/Somewhat/Moderately/Very Much

access site

12. Sexual dysfunction : Not at All/Somewhat/Moderately/Very Much

Part III – B

Practices related to symptoms/problems in Hemodialysis Patients

(Health related quality of life)

1. What do you think can be done to manage breathing difficulty in H.D. patients?

patient	s?		
1.1	Prepare a fluid plan for 24 hours and follow that	:	Yes / No / Do not know
1.2	Calculate all types of fluid	:	Yes / No / Do not know
1.3	Limit salt & salty food items	:	Yes / No / Do not know
1.4	Take adequate protein	:	Yes / No / Do not know
1.5	Take medicines to control BP	:	Yes / No / Do not know
1.3	Take iron rich food, iron tablets erythropoietin	:	Yes / No / Do not know
1.7	Check weight daily	:	Yes / No / Do not know
1.8	Regular dialysis	:	Yes / No / Do not know
What c	lo you think can be done to manage exc	essiv	e thirst in H.D. patients?
2.1	Follow fluid plan to have fluid available throughout 24 hours	:	Yes / No / Do not know
2.2	Drink water as allowed after retaining in the mouth for some time	:	Yes / No / Do not know
2.3	Use small cup to drink water	:	Yes / No / Do not know
2.4	Suck Lemon (if permitted)	:	Yes / No / Do not know
2.5	Suck chewing gum	:	Yes / No / Do not know
2.6	Suck ice cube	:	Yes / No / Do not know
2.7	Rinse or spray mouth with cold water	:	Yes / No / Do not know
2.8	Avoid salty food items	:	Yes / No / Do not know
2.9	Check the label of food items for sodium and salt	:	Yes / No / Do not know

Yes / No / Do not know

2.

Regular dialysis

patients? 3.1 Take frequent mouth wash Yes / No / Do not know 3.2 Suck lemon (if permitted) Yes / No / Do not know 3.3 Use more spices (mustard, pepper) Yes / No / Do not know while cooking 3 4 Use of vinegar in cooking Yes / No / Do not know 3.5 Keep mouth moist by frequent Yes / No / Do not know rinsing 3.6 Take small frequent meals Yes / No / Do not know 3.7 Add more sugar if not a diabetic Yes / No / Do not know 3.8 Eat essential food items first Yes / No / Do not know 3.9 Use food supplements as advised Yes / No / Do not know 3.10 Regular moderate exercise Yes / No / Do not know 3.11 Regular dialysis Yes / No / Do not know 4. What do you think can be done to manage constipation in H.D. patients? 4.1 Take more leafy vegetable (after Yes / No / Do not know draining the water) and fruits like guava, apple, pineapple, papaya and pear 4.2 Do exercise - yoga, walking, Yes / No / Do not know swimming 4.3 Regular schedule time for passing Yes / No / Do not know motion Yes / No / Do not know 4.4 Take medicines (stool softeners) as prescribed 4.5 Regular dialysis Yes / No / Do not know 5. What do you think can be done to manage body pain in H.D. patients? Restrict fluid to avoid water 5.1 Yes / No / Do not know retention 5.2 Yes / No / Do not know Take calcium supplement

What do you think can be done to manage loss of taste & appetite in H.D.

3.

5.3

Take Vitamin D supplement

Yes / No / Do not know

	5.4	Apply anesthetic cream on the fistula site before dialysis	:	Yes / No / Do not know
	5.5	Avoid strenuous work	:	Yes / No / Do not know
	5.6	Control blood pressure	:	Yes / No / Do not know
	5.7	Treat anemia by diet & medications	:	Yes / No / Do not know
	5.8	Learn about activities & exercises permitted	:	Yes / No / Do not know
	5.9	Regular exercise for about 30 minutes	:	Yes / No / Do not know
	5.10	Regular dialysis	:	Yes / No / Do not know
6.	What c	lo you think can be done to manage cra	mps c	luring and after dialysis
	6.1	Follow fluid plan strictly to avoid excess ultra filtration process	:	Yes / No / Do not know
	6.2	Follow diet plan strictly (to avoid potassium changes)	:	Yes / No / Do not know
	6.3	Keep the extremities warm by using socks, hot water bag etc.	:	Yes / No / Do not know
	6.4	Follow all the medications	:	Yes / No / Do not know
	6.5	Report any symptoms promptly	:	Yes / No / Do not know
	6.6	Avoid walking bare foot indoors	:	Yes / No / Do not know
	6.7	Regular dialysis	:	Yes / No / Do not know
7.	What c	lo you think can be done to mange weal	kness	after dialysis?
	7.1	Avoid excess rapid fluid removal by limiting weight gain between dialysis sessions	:	Yes / No / Do not know
	7.2	Have regular meals during dialysis	:	Yes / No / Do not know
	7.3	Take rest following dialysis	:	Yes / No / Do not know
	7.4	Take all medications as prescribed	:	Yes / No / Do not know
	7.5	Tale iron rich food	:	Yes / No / Do not know
	7.6	Avoid exertion	:	Yes / No / Do not know
	7.7	Regular dialysis	:	Yes / No / Do not know

8.	What do you think can be done to manage disturbed sleep in H.D. patients?					
	8.1	Avoid day time sleeping except for a nap	:	Yes / No / Do not know		
	8.2	Take regular exercise	:	Yes / No / Do not know		
	8.3	Take medicines for blood pressure Phosphates as prescribed	:	Yes / No / Do not know		
	8.4	Take calcium supplements	:	Yes / No / Do not know		
	8.5	Avoid tea/coffee in the evenings	:	Yes / No / Do not know		
	8.6	Restrict fluid intake	:	Yes / No / Do not know		
	8.7	Take warm milk before bed time	:	Yes / No / Do not know		
	8.8	Regular dialysis	:	Yes / No / Do not know		
9.	What d	o you think can be done to manage drynatients?	ness a	and itching of the skin in		
	9.1	Use of medication (phosphorus binders)	:	Yes / No / Do not know		
	9.2	Use mild soaps	:	Yes / No / Do not know		
	9.3	Use oil on the skin	:	Yes / No / Do not know		
	9.4	Avoid prolonged hot bath	:	Yes / No / Do not know		
	9.5	Do not rub alcohol or any chemical producing scent on the skin	:	Yes / No / Do not know		
	9.6	Use only soft cotton fabrics for under clothing and avoid wool and rough polyesters	:	Yes / No / Do not know		
	9.7	Use as little detergent as possible	:	Yes / No / Do not know		
	9.8	Regular dialysis	:	Yes / No / Do not know		
10.	What d	o you think can be done to manage rest	ricted	l mobility in H.D. patients?		
	10.1	Restrict fluid and salt intake to avoid Swelling	:	Yes / No / Do not know		
	10.2	Check weight regularly	:	Yes / No / Do not know		
	10.3	Rest adequately to prevent fatigue	:	Yes / No / Do not know		
	10.4	Learn about activities & exercises permitted	:	Yes / No / Do not know		

10.5	Do household works like chopping vegetables & cleaning	:	Yes / No / Do not know
10.6	Try walking, cycling & swimming	:	Yes / No / Do not know
10.7	Regular exercises for 30 minutes, 3 times a week	:	Yes / No / Do not know
10.8	Stop exercise if symptoms like chest pain, increased heart rate, breathlessness, cramps, fainting, nausea develops	:	Yes / No / Do not know
10.9	Do not exercise if there is fever or increased blood pressure	:	Yes / No / Do not know
10.1 0	Include family members/care takers in planning activities	:	Yes / No / Do not know
10.1 1	Discuss with doctor/nurse regarding activities & exercise	:	Yes / No / Do not know
10.1 2	Take adequate first class proteins to maintain albumin level	:	Yes / No / Do not know
10.1 3	Take calcium and vitamin D supplements as prescribed	:	Yes / No / Do not know
10.1 4	Prevent infections by following all precautions	:	Yes / No / Do not know
10.1 5	Educate spouse, family members about the disease	:	Yes / No / Do not know
10.1 6	Regular dialysis	:	Yes / No / Do not know
What	do you think can be done to manage pro	oblen	ns with dialysis access site?
11.1	Check for "thrill" every day while rising and before going to bed	:	Yes / No / Do not know
11.2	Keep pressure dressing at least for four hours after dialysis	:	Yes / No / Do not know
11.3	Do not allow checking of BP on the affected hand	:	Yes / No / Do not know

Do not allow blood collection from the affected hand	:	Yes / No / Do not know							
Protect the access site from any injury	:	Yes / No / Do not know							
No tight wrist watch or jewelry on the affected hand	:	Yes / No / Do not know							
No tight band or clothing on the affected hand	:	Yes / No / Do not know							
No heavy activity with the affected hand	:	Yes / No / Do not know							
Do not sleep on the affected arm or keep it bent for long period	:	Yes / No / Do not know							
11.1 Exercise the fistula by squeezing 0 small ball in the hand in case of fistula every day	:	Yes / No / Do not know							
Inform doctor/nurse if swelling,increased warmth, bleeding or pain are noticed	:	Yes / No / Do not know							
11.1 Check blood pressure & avoid low blood pressure	:	Yes / No / Do not know							
What do you think can be done to manage sexual dysfunction?									
12.1 Control blood pressure	:	Yes / No / Do not know							
12.2 Treat anemia	:	Yes / No / Do not know							
12.3 Maintain physical intimacy with the spouse as before dialysis	:	Yes / No / Do not know							
12.4 Avoid tension on access site during contact	:	Yes / No / Do not know							
12.5 Follow birth control measures as advised	:	Yes / No / Do not know							
12.6 Report to the physician so that drug	:	Yes / No / Do not know							
may be changed 12.7 Educate spouse about the disease	:	Yes / No / Do not know							
12.8 Regular exercise	:	Yes / No / Do not know							
12.9 Regular dialysis	:	Yes / No / Do not know							

Part -IV Views of hemodialysis patients about the Instruction Manual

Sr. No.	Views		0	1	2	3	4
1	Language of the manual is simple to understand	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
2	The Content of the Manual is adequate, covering all the symptoms	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
3.	The Content of the Manual is written in logical sequence	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
4.	The pictures help in understanding the content	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
5	The Manual is referred to when ever there are any doubts	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
6.	The size of the Manual is easy to handle	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
7.	The manual is interesting to read	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
8.	The suggestions/advice regarding the symptoms given in the Manual are easy to follow in daily life	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
9	Review part of the Manual helps in remembering important points	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree
10	Will recommend the Manual to other Hemodialysis patients	:	Strongly Agree	Agree	No Opinion	Disagre e	Strongly Disagree