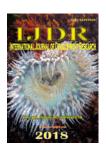


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ORIGINAL RESEARCH ARTICLE

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SATISFACTION WITH CARE IN HEMODIALYSIS UNIT AMONG MAINTENANCE HEMODIALYSIS (MHD) PATIENTS

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ABSTRACT

The study was aimed to assess the Maintenance Hemodialysis (MHD) Patients' Satisfaction with Care in Hemodialysis Unit. A descriptive design was used on 70 Maintenance Hemodialysis (MHD) Patients of hemodialysis unit of Deep Kidney Care Centre, Model Town, Ludhiana, Punjab. With the help of total enumerative sampling technique, 70 Maintenance Hemodialysis (MHD) Patients were selected. Structured Patient Satisfaction Scale (PSS) was used to assess Maintenance Hemodialysis (MHD) Patients' Satisfaction with Care in Hemodialysis Unit. Patient Satisfaction Scale (PSS) included various dimensions of satisfaction related to care like direct nursing care, safe environment, collaboration, therapeutic communication, ethics and documentation in hemodialysis unit. The data was obtained through self-report (interview schedule) method. Analysis was done in accordance with the objectives of the study. Results showed that out of 70 Maintenance Hemodialysis (MHD) Patients, 47(67.1%) of maintenance hemodialysis patients were satisfied with the care, followed by 20(28.6%) of maintenance hemodialysis patients, who were partially satisfied and only 03(4.3%) of maintenance hemodialysis patients were not satisfied with the care and Mean and SD of overall Patients' Satisfaction score was on higher side i.e. 69.36+9.49.

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INTRODUCTION

Patient satisfaction has been often defined as the extent of agreement between what a patient expects to result or obtain from the healthcare experience and the perception of care they actually receive (La Monica *et al.*, 1986). This definition implies that the individual has formed expectations prior to or during the healthcare experience, and that at some point, must consider whether of the services received during the experience meet, do not meet, or exceed those expectations. The first attempts to evaluate patient satisfaction with healthcare services originated in 1956 (Merkouris *et al.*, 1999). In the 1990s, the Healthcare Effectiveness Data and Information Set standards required provider organizations to survey patient satisfaction with care. Scholars have distinguished between responses regarding amenities and those about presumably more fundamental aspects of care, such as

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interpersonal care, communication, and coordination, thought ultimately to matter more to patients than the elegance of medical facilities (Press, 2006). The evaluation of patients' satisfaction when dealing with chronic illnesses is an increasingly important domain. Firstly, patient satisfaction is associated with adherence to treatment regimens. Furthermore, patient satisfaction is also increasingly considered as an important outcome in its own right. For instance, it is one of nine key dimensions of quality addressed in the European Foundation for Quality Management's excellence Model (European Foundation for Quality Management). Health-care quality and its improvements have become increasingly important in healthcare (Bodenheimer, 1999) including endstage renal disease (ESRD) care (Lowrie et al., 1981). Patient satisfaction is also an important aspect of dialysis care and is considered as an indicator for evaluating the health care outcomes, while also affects clinical performance, patient retention and medical malpractice (Prakash, 2010) Furthermore it may be a very effective outcome to measure the success of health care team in dialysis unit when dealing with chronic undergoing hemodialysis therapy.

improvement pertains to both the quality of dialysis treatment and its related products and services. Hard outcomes in ESRD patients treated with hemodialysis (HD), such as mortality, are associated with psychosocial variables such as depression, social support, or patients' perception of their illness (Kimmel et al., 1998) as well as affected by age, diabetes mellitus, and other medical conditions. Numerous scientific and technical advances in hemodialysis therapy and the outcomes of patients with end stage renal disease are far from reaching the desired targets (Pinheiro et al., 2013). However better outcomes absolutely are associated with patient involvement in the health care process (Kovac et al., 2002). Owing to the chronicity of ESRD, dialysis patients can spend years of treatment in centers with extensive interaction with dialysis staff. Previous findings suggested patient satisfaction with care is associated with perception of quality of life (QOL) and burden of illness, as well as improved intermediate outcomes, in ESRD HD patients (Kimmel, 2000). Dialysis Clinic, Inc. (DCI; www.dciinc.org), has measured patient satisfaction since 1995, using an internally developed nine-item instrument modeled after Eugene Nelson's Patient Comment Card (Nelson et al., 1991). Patient satisfaction with care and caregivers is an important aspect of dialysis treatment, which should be evaluated time to time to for the benefit of the patient (Kovac et al., 2002).

MATERIALS AND METHODS

The objective of the study was to assess the Maintenance Hemodialysis (MHD) Patients' Satisfaction with Care in Hemodialysis Unit. The study was approved by research and ethical committee of Deep Kidney Care Centre, Model Town, Ludhiana, Punjab. Instructions were given to Maintenance Hemodialysis (MHD) Patients and they were assured that their responses would be kept confidential. Informed Consent was obtained from the patients undergoing Hemodialysis. A non-experimental descriptive research design was used on 70 Maintenance Hemodialysis Patients (MHP) undergoing hemodialysis in Deep Kidney Care Centre, Model Town, Ludhiana, Punjab. Total enumerative sampling was used to enroll the patients in the Study. The tool was organized in two Parts.

Part A: Patient's Profile including Section I: Sociodemographic Profile: It included age, gender, marital status, religion, habitat, educational status and occupation and Section II: Clinical Profile: It included dialysis vintage, HIV status, HbsAg status, HCV status, Hepatitis Vaccination, frequency of dialysis per week, no of missed dialysis, hours of dialysis, post dialysis complications, access type, access related complications, comorbidities present, intradialytic weight gain, serum values of Sodium, Potassium, Hemoglobin, Creatinine and Urea, pre, intra and post dialysis Blood Pressure and Heart Rate.

Part B: Structured Patient Satisfaction Scale (PSS): Structured Patient Satisfaction Scale (PSS) includes various dimensions of satisfaction related to care like direct nursing care, safe environment, collaboration, therapeutic communication, ethics and documentation in hemodialysis unit. All dimensions include number of statements i.e direct nursing care includes 7 statements. safe environment includes 5 statements. collaboration includes statements, therapeutic communication includes 5 statements, ethics includes 5 statements and documentation includes 3 statements. Each statement was scored on a 3-point scale ranging from 1

(Never) to 3(Always). Tool was validated by various experts and reliability of the tool is predetermined by using a Cronbach's alpha coefficient to assess internal consistency (r=0.80). The data obtained was analyzed by using both descriptive and inferential statistics.

RESULTS

Table 1 depicts that 30(42.9%) of Maintenance Hemodialysis Patients were in the age group of 55-72 years with the mean age of 54.9 + 14.67. More than half i.e. 47(67%) of patient were males. Most of the patients i.e. 63(90%) were married. More than half 38(54.3%) were from Sikh families. Maximum i.e. 49(70%) of patients were residing in urban areas.24 (34.3%) were educated up to elementary level. More than half i.e. 44 (62.9%) patients were non-working. Table 2 depicts that more than half of Maintenance Hemodialysis Patients i.e. 42(60%) were having dialysis vintage <12 months. All the patients 70(100%) were non-reactive for HIV infection. 3(43%) of patients were reactive for Hbs Ag infection. 20(28.3%) of patient were reactive for HCV infection. All 70(100%) of patient were vaccinated for hepatitis. 44(62.8%) of patients were coming twice a week for dialysis.62 (88.6%) of patients had never missed their dialysis sessions.63 (90%) of patients had each dialysis session of 2-4 hours. More than half i.e. 36 (51.4%) of patients had various post dialysis complications. Majority of patients i.e. 65(92.9%) had no access related complications but 5(7.1%) of patients had various access related complications and majority of patients i.e. 56(80%) had comorbidities present along with CKD. Figure 1 shows the distribution of Maintenance Hemodialysis (MHD) Patients as per post dialysis complications. Total 36 patients out of 70 had post dialysis complications. Out of which, majority 13(36.1%) of patients had nausea and Vomiting as post dialysis complications, 10 (27.8%) of patients had weakness and tiredness, 5(13.9%) of patients had cramps, 4(11.1%) of patients had Hypertension, 4(11.1%) of patients had Headache, 3(8.3%) of patients had Ghabrahat, 2(5.6%) of patients had Chest pain, 1(2.8%) of patients had constipation and 1(2.8%) of patients had seizures as post dialysis complications. Figure 2 shows the distribution of Maintenance Hemodialysis (MHD) Patients as per access related complications. Only 5 patients out of 70 had access related complications Majority of them i.e. 3(60 %) had ecchymosis on the access site, 1(20 %) had nodules on the access site, 1(20 %) had swelling at the access site and 1(20 %) had numbness in hand on the same side that of access site. Figure 3 shows the distribution of Maintenance Hemodialysis (MHD) Patients as per Comorbidities present. Total 56 patients out of 70 had Comorbidities present. Out of 56 patients majority of them i.e. 48(85.7%) hypertension,34(61%) had diabetes, 6(10.7%) had CAD, 6(10.7%) had Retinopathy, 4(7.14%) had peripheral neuropathy, 2(3.6%) had CVA, 2(3.6%) had malignancy, 2(3.6%) had Nephrolithiasis, 1(1.8%) had GI bleeding, 1(1.8%) had Cholelithiasis,1 (1.8%) had Backpain,1(1.8%) had liver disease and 1(1.8%) had Gout. Figure 4 shows the distribution of Maintenance Hemodialysis (MHD) Patients as per access type. Majority of patients i.e. 47(67.1%) had AV Fistula, 12(17.1%) of patients had Catheter, 11(15.8%) of patients had femoral catheter and none of the patient had Graft as an access for hemodialysis. Table 3 depicts that more than half of Maintenance Hemodialysis Patients i.e. 44 (62.9%) had desirable Intra-dialytic Weight Gain. More than half i.e. 40 (57.1 %) had desirable serum sodium level.

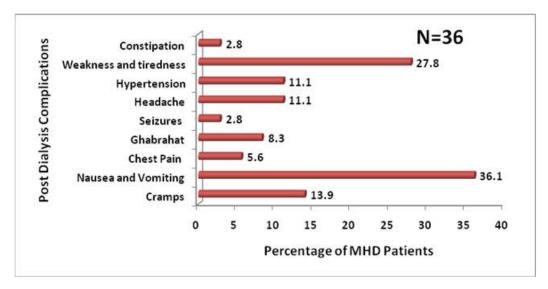


Fig 1: Distribution of Maintenance Hemodialysis (MHD) Patients as per post dialysis complications

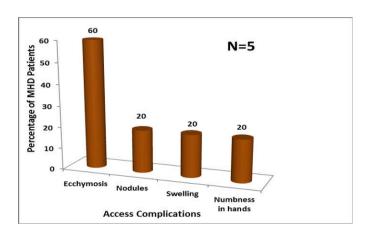


Fig 2. Distribution of Maintenance Hemodialysis (MHD) Patients as per Access related complications

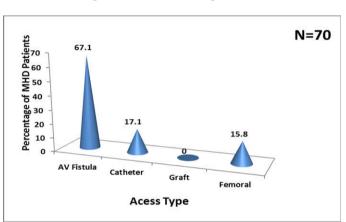


Fig 4. Distribution of Maintenance Hemodialysis (MHD) Patients as per Access type

More than half i.e. 42 (60 %) had desirable serum potassium level. All i.e. 70 (100%) of maintenance hemodialysis patients had undesirable hemoglobin and creatinine in serum. Majority i.e. 65(92.9%) of maintenance hemodialysis patients had undesirable serum urea level and only 5(7.1%) had desirable serum urea level. Table 4 depicts the mean and standard deviation of values of clinical profile (intra-dialytic weight gain and serum values of Sodium, Potassium, Hemoglobin, Creatinine and Urea) of Maintenance Hemodialysis (MHD)

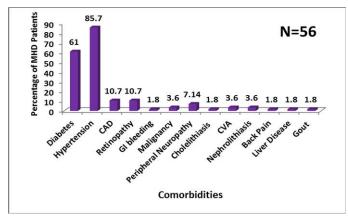


Fig 3. Distribution of Maintenance Hemodialysis (MHD) Patients as per Comorbidities present

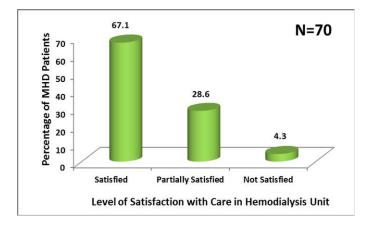


Fig 5. Distribution of Maintenance Hemodialysis (MHD) Patients as per their Level of Satisfaction with Care in Hemodialysis Unit

Patients Table 5 depicts the mean and standard deviation of pre, intra and post dialysis vital parameters like blood pressure and heart rate of Maintenance Hemodialysis (MHD) Patients. Figure 5 depicts that majority i.e. 47(67.1%) of maintenance hemodialysis patients were satisfied with the care, followed by 20(28.6%) of maintenance hemodialysis patients, who were partially satisfied and only 03(4.3%) of maintenance hemodialysis patients were not satisfied with the care. Table 6 depicts the frequencies, percentage, mean and SD of Level of

Table 1. Distribution of Maintenance Hemodialysis Patients (MHP) as per their Socio-Demographic profile

		N=70
Socio Demographic Profile	f	%
Age(in years)		
8-36	16	22.8
37-54	22	31.4
55-72	30	42.9
>72	02	2.9
Gender		
Male	47	67
Female	23	33
Marital Status		
Married	63	90
nmarried/Single	07	10
ivorced/Separated	0	0
/idow/Widower	0	0
eligion		
indu	27	38.5
kh	38	54.3
hristian	02	2.9
Iuslim	02	2.9
ny other	01	1.4
abitat		
ural	21	30
rban	49	70
ducational Status		
iterate	07	10
ementary	24	34.3
econdary	20	28.6
enior secondary	09	12.8
raduate and above	10	14.3
ccupation		
Vorking	26	37.1
on-working	44	62.9

Mean age=54.9 ± 14.67

Table 2: Distribution of Maintenance Hemodialysis Patients (MHP) as per their selected Clinical Profile

N=7	0	
Clinical Profile	f	%
Dialysis Vintage (in months)		
<12	42	60
13-24	17	24.3
25-36	05	7.1
37-48	03	4.3
>48	03	4.3
HIV status		
Reactive	0	0
Non-reactive	70	100
HbsAg status		
Reactive	03	4.3
Non-reactive	67	95.7
HCV status		
Reactive	20	28.6
Non-reactive	50	71.4
Hepatitis Vaccination		
Yes	70	100
No	0	0
Frequency of dialysis per week		
Once	20	28.6
Twice	44	62.8
Thrice	06	8.6
No of missed dialysis		
Never	62	88.6
Once	06	8.6
Twice	01	1.4
Thrice	01	1.4
Hours of dialysis(in hours)		
0-2	0	0
2-4	63	90
4-6	07	10
Post dialysis complications		
Yes	36	51.4
No	34	48.6
Access related complications		
Yes	05	7.1
No	65	92.9
Comorbidities present		
Yes	56	80
No	14	20

Table 3: Distribution of Maintenance Hemodialysis Patients (MHP) as per their selected Clinical Profile (Intra-dialytic Weight Gain and Serum Values of Sodium, Potassium, Hemoglobin, Creatinine and Urea)

		N=70
Clinical Profile	f	%
Intra-dialytic Weight Gain		
Desirable	44	62.9
Undesirable	26	37.1
Serum Sodium		
Desirable	40	57.1
Undesirable	30	42.9
Serum Potassium		
Desirable	42	60
Undesirable	28	40
Hemoglobin		
Desirable	0	0
Undesirable	70	100
Serum Creatinine		
Desirable	0	0
Undesirable	70	100
Serum Urea		
Desirable	05	7.1
Undesirable	65	92.9

Table 4: Mean and Standard Deviation of values of Clinical Profile (Intra-dialytic Weight Gain and Serum Values of Sodium, Potassium, Hemoglobin, Creatinine and Urea)

		N=70
Clinical Profile	Normal Value	Mean <u>+</u> SD
Intra-dialytic Weight Gain	<5.7% of dry weight	2.38 <u>+</u> 1.737
Serum Sodium	135-145 mEq/L	135.51 <u>+</u> 5.498
Serum Potassium	3.5-5.0 mEq/L	4.9 <u>+</u> 0.913
Serum Hemoglobin	13.5-17.5 g/dl (for men)	8.02 <u>+</u> 1.523
	12.0-15.5 g/dl (for women)	
Serum Creatinine	0.6-1.2 mg/dl (males) 0.5-1.1 mg/dl(females)	8.21 <u>+</u> 3.466
Serum Urea	7-20 mg/dl	126.07 <u>+</u> 53.02

Table 5: Mean and Standard Deviation of pre, intra and post dialysis vital parameters like blood pressure and heart rate

		N=70
Clinical Profile	Mean <u>+</u> SD	
Pre dialysis-Systolic Blood Pressure	149.66 <u>+</u> 20.18	
Intra dialysis-Systolic Blood Pressure	150.11 <u>+</u> 17.102	
Post dialysis-Systolic Blood Pressure	147.03 <u>+</u> 17.699	
Pre dialysis -Diastolic Blood Pressure	82.71 <u>+</u> 10.621	
Intra dialysis -Diastolic Blood Pressure	82.43 <u>+</u> 8.918	
Post dialysis -Diastolic Blood Pressure	82 <u>+</u> 9.72	
Pre dialysis-Heart Rate	78.91 <u>+</u> 4.931	
Intra dialysis- Heart Rate	78.69 <u>+</u> 4.766	
Post dialysis- Heart Rate	78.26 <u>+</u> 5.687	

Table 6: Frequencies, percentage, mean and SD of Level of Patients' Satisfaction with Care in Hemodialysis units among Maintenance Hemodialysis (MHD) Patients

			N=70
Level of Patients' Satisfaction	f	%	Mean <u>+</u> SD
Satisfied	47	67.1	73.79 <u>+</u> 2.904
Partially Satisfied	20	28.6	64.1 <u>+</u> 6.496
Not Satisfied	03	04.3	35 <u>+</u> 2.646

Mean+SD of Overall Patients' Satisfaction score was 69.36+9.49

Maximum Score-90

Minimum Score-30

Table 7 .Mean and SD of Level of Patients' Satisfaction with Care according to subcomponents of Patient's Satisfaction among Maintenance Hemodialysis (MHD) Patients

		N=70
Sub Components of Patient's Satisfaction	Score Range	Mean <u>+</u> SD
Direct Nursing Care	7-21	16.53 <u>+</u> 3.892
Safe Environment	5-15	11.71 <u>+</u> 2.415
Collaboration	5-15	11.54 <u>+</u> 1.733
Therapeutic Communication	5-15	11.17 <u>+</u> 1.667
Ethics	5-15	11.16 <u>+</u> 1.69
Documentation	3-9	7.24 <u>+</u> 1.083

Maximum Score-90 Minimum Score-30

Table 8: Association of Patients' Satisfaction related to Care with Socio-Demographic profile among Maintenance Hemodialysis (MHD) Patients

N=70 Socio-Demographic Profile Patients' Satisfaction Partially Satisfied Not Satisfied Statistics Satisfied f(%) f(%) Age(in years) 08 08 00 7.981 18-36 36-54 14 06 02 df=6 $p = .240^{NS}$ 54-72 05 01 24 01 >72 01 00 Gender 6.362 27 17 03 df=2Male $p=.042^{NS}$ 20 03 00 Female Marital Status 45 15 03 7.057 Married Unmarried/Single 02 05 00 df=2 $p{=}.029^{\rm NS}$ Divorced/Separated 00 00 00 Widow/Widower 00 00 00 Religion 19 06 02 3.755 Hindu Sikh 24 13 01 df=8 $p=.879^{NS}$ Christian 01 01 00 Muslim 00 00 02 Any other 0100 00 Habitat 2.361 13 08 00 df=2Rural $p=.307^{NS}$ Urban 34 12 03 Educational Status 03 6.437 04 00 Illiterate Elementary 18 06 00 df=8 $p = .598^{NS}$ 14 04 02 Secondary Senior secondary 06 03 00 Graduate and above 05 04 01 Occupation 1.383 Working 31 12 01 df=2 $p = .501^{NS}$ Non-working 16 08 02

Table 9. Association of Patients' Satisfaction related to Care with selected Clinical profile among Maintenance Hemodialysis (MHD) Patients

N=70

Clinical Profile	Patients' Satisfact	Patients' Satisfaction		
Cimical Frome	Satisfied f(%) Partially Satisfied f(%) Not Satisfied f(%)		Statistics	
Dialysis Vintage (in months)	(**)		(,	
<12	27	14	01	
12-24	11	05	01	10.223
24-36	05	00	00	df=8
36-48	02	00	01	p=.250 ^{NS}
>48	02	01	00	1
HbsAg status				1.534
Reactive	03	00	00	df=2
Non-reactive	44	20	03	p=.464 ^{NS}
HCV status				1.624
Reactive	13	07	00	df=2
Non-reactive	34	13	03	p=.444 ^{NS}
Frequency of dialysis in a week				1.294
Once	12	07	01	df=4
Twice	30	12	02	p=.862 ^{NS}
Thrice	05	01	00	1
No of missed dialysis				7.079
Never	44	15	03	df=6
Once	03	03	00	$p=.314^{NS}$
Twice	00	01	00	1
Thrice	00	01	00	
Hours of dialysis (in hours)				1.288
2-4	41	19	03	df=2
>4	06	01	00	p=.525 ^{NS}
Any post dialysis complications				2.610
Yes	21	13	02	df=2
No	26	07	01	p=.271 ^{NS}
Access type				7.783
AV Fistula	31	15	01	df=4
Catheter	08	04	00	$p=.100^{NS}$
Femoral	08	01	02	
Access related complications				.518
Yes	03	02	00	df=2
No	44	18	03	p=.772 ^{NS}
Comorbidities present				.694
Yes	37	17	02	df=2
No	03	03	01	p=.707 ^{NS}

			1	N=70
Clinical Profile	Patients' Satisfaction			χ ²
	Satisfied	Partially Satisfied	Not Satisfied	Statistics
	f(%)	f(%)	f(%)	
Intra-dialytic Weight Gain				6.367
Desirable	29	15	00	df=2
Undesirable	18	05	03	$p=.041^{NS}$
Serum Sodium				.915
Desirable	25	13	02	df=2
Undesirable	22	07	01	p=.633 ^{NS}
Serum Potassium				1.318
Desirable	26	14	02	df=2
Undesirable	21	06	01	$p=.517^{NS}$
Serum Urea				3.282
Desirable	03	01	01	df=2
Undogirable	4.4	10	0.2	104 ^{NS}

Table 10 Association of Patients' Satisfaction related to Care with selected Clinical profile (Intra-dialytic Weight Gain and Serum Values of Sodium, Potassium and Urea) among Maintenance Hemodialysis (MHD) Patients

Patients' Satisfaction with Care in Hemodialysis units among Maintenance Hemodialysis (MHD) Patients. Mean and SD of Patients' Satisfaction score for satisfied patients was 73.79+2.904. Mean and SD of Patients' Satisfaction score for partially satisfied patients was 64.1+6.496. Mean and SD of Patients' Satisfaction score for not satisfied patients was 35+2.646 and Mean and SD of overall Patients' Satisfaction score was on higher side i.e. 69.36+9.49. Table 7 depicts the Mean and SD of Level of Patients' Satisfaction with Care according to subcomponents of Patient's Satisfaction among Maintenance Hemodialysis (MHD) Patients. Table 8 depicts that there is no significant association of level of Patients' Satisfaction related to Care with various Socio-Demographic variables like age, gender, marital status, religion, habitat, educational status and occupation. Table 9 depicts that there is no significant association of level of Patients' Satisfaction related to Care with clinical variables like dialysis vintage in months, HbsAg status, HCV status, frequency of dialysis in a week, no of missed dialysis, hours of dialysis, any post dialysis complications, access type, access related complications and comorbidities present. Table 10 depicts that there is no significant association of level of Patients' Satisfaction related to Care with clinical variables like Intra-dialytic Weight Gain, serum sodium, potassium and urea.

DISCUSSION

The present study revealed that out of 70 Maintenance Hemodialysis (MHD) Patients, 47(67.1%) of maintenance hemodialysis patients were satisfied with the care, followed by 20(28.6%) of maintenance hemodialysis patients, who were partially satisfied and only 03(4.3%) of maintenance hemodialysis patients were not satisfied with the care. and Mean and SD of overall Patients' Satisfaction score was on higher side i.e. 69.36+9.49. A similar study was conducted by Ferentinou et al. (2016) to assess the satisfaction regarding care among patients on Hemodialysis from selected hospitals in Greek. The results revealed that 50.7% of patients were totally satisfied with care, 37.1% of patients were satisfied with care, 11.4% of patients were neither satisfied nor dissatisfied with care and only 0.8% of patients were dissatisfied with care in hemodialysis unit. The present study revealed that there is no significant association of level of Patients' Satisfaction related to Care with various Socio-Demographic and clinical variables. A cross-sectional prospective study was conducted by Domenick et al. (2018) to assess the association of Maintenance Hemodialysis

(MHD) Patient's satisfaction related to care with access type and it was revealed that there is a significant association of patient satisfaction with access type (p=.013)

Conclusion

The study concluded that, out of all Maintenance Hemodialysis (MHD) Patients, majority of maintenance hemodialysis patients were satisfied with the care in hemodialysis unit of Deep Kidney Care Centre, Model Town, Ludhiana, Punjab and overall Patients' Satisfaction score was on higher side.

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