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Factors Affecting the Quality of Life Among Hemodialysis Patients					
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Abstract: In patients with end-stage renal illness, personal satisfaction is a key determinant of outcome. Therefore, should be regularly assessed in this context assessment reflects only physiological and psychological variables linked with permanent hemodialysis patients in General Hospital Lahore. Data were gathered using a modified questionnaire from Lahore General Hospital, and participants were chosen using a practical technique that included all patients receiving ubiquitous permanent hemodialysis. 110 patients receiving hemodialysis made up the study's sample size. The findings indicate that physiological and psychological variables had a good impact on the quality of life of haemodialysis patients. Work, however, was the most dreadful aspect of quality of life, while the best variables were subjective capability and the type of social collaboration. Additionally, it has been found that factors such as older age, female sexual orientation, poorer socioeconomic level, and higher instructional dimension are linked to lower results.

Key Words: Hemodialysis, Patients, General Hospital, Lahore, Pakistan.

Introduction

Chronic kidney Disease is a huge general medical issue that is identified with a high rate of horribleness and mortality. Quality of life is an instrument to quantify the well-being of perpetual kidney sickness patient's few investigations demonstrate that the QOL of hemodialysis patients is lower than the patients accepting other renal substitution treatments like peritoneal dialysis and renal transplantation (Xhulia, Needs of Hemodialysis Patients and Factors Affecting Them, 2015). Quality of life is characterized as 'an individual impression of their situation in life with regards to the way of life and worth framework, where they live and in and connection to their objectives, desires, norms and concerns. OOL of Haemodialysis patients is lower than in contrast with the sound populace in Pakistan because generally meeting with nephrologists, high rate of sorrow, deficient nephrology benefits a modest number of Nephrologists and poor access to

dialysis administrations and insufficiency of the specialized staff (Anees, $\frac{2014}{1}$).

Hemodialysis is the most widely recognized renal supplanting treatment in patients with ESRD, there are various components that influence their life, for example, loss of significant time a patient needs to remain on three or four hours twice week by week on a dialysis machine, misgiving about the results of illness and its treatment, machine reliance and transplant and its dismissal and so forth (Xhulia, 2016). However, hemodialysis is considered a genuine and safe technique that abatement side effects by evacuating waste items and increment the QOL, however despite everything it denies normal exercises because of infection and its results the patients experience various side effects identified with ailment, for example, sickness, regurgitating, tingling, hypotension or hypertension, a sleeping disorder, iron deficiency (Shim, Factors Influencing the Quality of Life of Hemodialysis Patients according to Symptom Cluster). Tolerant support hemodialysis

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needs to confront distinctive physiological, mental, and conservative issues. personal satisfaction Patients with constant kidney ailment who are on dialysis have a decline in personal satisfaction instead to the individuals who are on peritoneal dialysis assessment of QOL of patients with interminable kidney sickness is not just valuable to assess the nature of dialysis yet, in addition, is useful to control Nephrologist to make better intercessions and plans of patients care for what's to come (Joshi, 2017). Hindered physiological and mental prosperity and low confidence dialysis treatment can explicitly impact self-perception, and the patient feels as appalling for instance various systems for access to dialysis like at venous fistula, jugular or femoral twofold lumen catheter, and peritoneal catheter, that change selfperceptions and low sexual drive cause changes in a conjugal relationship (Jennifer Finnegan-John, 2012).

Depression is the most well-known mental factor which affects the personal satisfaction of Haemodialysis patients and their family, influencing their mental prosperity sorrow is in charge of the most noteworthy yearly mortality of hemodialysis patients in Pakistan more re-occurrence in patients with constant renal disappointment for the most part between the third to ninth year of treatment and influences females with more prominent recurrence it gives basically pity, tension, discouraged disposition, poor confidence, cynicism about the future, diminished charisma, rest issue and constrained craving. Anaemia introduces clinically as a weakness and despondency, because of the diminished discharge of erythropoietin by the kidneys and adversely influences the personal satisfaction of these patients the organization of erythropoietin, folic corrosive, nutrient B12, nutrient buildings and iron are significant in the treatment of anaemia and iron insufficiency while transfusions are suggested for extreme frailty. The causation of torment is multifactorial and might be either because of the strategy of dialysis (cut, muscle issues, and cerebral pains) or because of the nearness of going with foundational ailments and agonizing disorders agony is the most well-known side effect uneasiness of patients which causes altogether disabled personal satisfaction (Stavroula K. Gerogianni, 2014). The point of this examination was to investigate the necessities of Haemodialysis patients and the variables influencing them. The essentials of this exploration are to improve the personal satisfaction of Haemodialysis patients and to give rules to upgrade their dialysis viability and well-being conditions, which will help in the survival of these patients. People groups are not cognizant of their

well-being conditions, there isn't periodical checkup conduct exists in the nation, and after such sickness, no standard follow up organized by the patients or their specialists, there is likewise a shortage of Nephrologists, specialized staff, and dialysis restoration units in Pakistan (Mortality rate of hemodialysis patients in Pakistan, 2018).

Literature Review

Chronic renal failure, has as of late been incorporated into the gathering of a way of life illnesses of the 21st century, Chronic kidney Disease is a dynamic and regularly hopeless infection this implies a few patients with this irreversible disorder will, following various years the sickness begin and gets ceaseless; they require renal substitution treatment the quantity of patients accepting RRT is always enduring reasons incorporate growing in treatment quality, legitimate determination, and patient life expectation the astounding decrease in dialysis patients.' personal satisfaction was because of more awful physiological and Psychological conditions side effects like physical wellness uneasiness and wretchedness quality of life relies upon sort of the ailment, length from the beginning, the seriousness of indications, treatment alternatives, and treatment eventual outcomes, confinements coming about because of the ailment, the patient's age and self-care possibilities. patients who are on treatment with hemodialysis are an exceptional gathering of incessantly sick, who are in danger of intermittent hospitalizations and a few issues because of the renal shutdown and the Haemodialysis treatment itself (BeataJankowska-Polan' ska1,2016).

definition, WHO's the Quality life of concentrates should once in a while be completed for the all-encompassing assessment including physical, otherworldly and mental elements of life since personal satisfaction assessments may give significant pieces of information for the improvement of the administrations offered, it is very huge to assess the personal satisfaction of haemodialysis patients multidimensional (Mollaoğlu,2017). The spaces of Quality of life for patients have been continuing as physical working, mental angles, and social arrangement of personal satisfaction for endorganize renal illness patients plots appraisals of useful status, well-being status, prosperity, and patient fulfilment (Patel, 2006).

Depression is the most widely recognized mental factor among patients with ESRD, it influences the individual consideration of these patients which leads to poor attachment to dialysis. These patients have a danger of wretchedness that is multiple times more noteworthy than the overall public discouraged dialysis patients are most presumably to confront complexities; the death rate in these patients on haemodialysis is twice as likely or require hospitalization in a year contrasted and those without sorrow. Sadness among peritoneal dialysis patients has been related to a higher occurrence of peritonitis it is a typical under-perceived and undertreated issue among these patients (AlDukhayel, 2015). Anemia of Chronic kidney Disease is a noteworthy physiological factor that seems from the get-go in the headway of incessant kidney sickness, with seriousness creates as renal capacity break down the majority of the patients with stage V. Chronic kidney Disease and requirements renal substitution treatments as dialysis have Anemia, which adds to low personal satisfaction and results sickliness of unending kidney illness is related principally to lacking nephric yield of erythropoietin and inadequacy of iron prompting diminished erythropoiesis treatment of frailty incorporates expanded requires a reassess of weakness the executives approaches in haemodialysis and for various procedures to help right the confusion while outside supplementation of erythropoietin and iron remains the foundation of iron deficiency treatment in perpetual kidney Disease, the potential for expanding the condition by controlling fundamental circumstances that add to the pathogenesis of frailty, or by dialysis-explicit systems, still can't seem to be completely seen (Bowry, 2011).

Pain is a most normal factor as grumbling of hemodialysis patients the data in regards to its beginning, recurrence, and the executives is practically sparse most distributed information come by implication from studies concentrating on wellbeing-related personal satisfaction the revealed recurrence of torment fluctuates broadly in these patients in an audit of manifestations in ESRD, The International Association for the Study of Pain (IASP) has characterized pain as "an undesirable tactile and enthusiastic experience related with a real or potential mischief to the body". In many patients, the seriousness of torment ranges from moderate to extreme (Ghonemy, 2015).

Methodology

A study was conducted to assess the factors affecting the Ouality of life of haemodialysis patients. The study adopted a quantitative research design to assess the quality of life of Haemodialysis patients and factors affecting them. The Setting of the study was the patients who are twice or thrice a week on dialysis. The targeted population is patients of the dialysis unit of the Lahore General Hospital. The participants will be belonging to different socioeconomic levels and different demographic backgrounds the participants were male and female. Data collected from the participant through an adapted questionnaire and the participant will be selected through a convenient method. The sample size for the study is 110, which is calculated through the Slovenes method. A 25-item self-administered modified version adapted from the SF-36 scale to evaluate the quality of life of kidney disease patients. The data collection plan is the main source of collecting data. Self-administered Questionnaire was used to collect data from participants. About 110 duly filled questionnaires were returned. SPSS version 20.0v was used for data analysis and the hypothesis was tested through the frequency distribution technique. Including criteria, patients on haemodialysis. Excluding criteria Doctors, Nurses, and rest of the employees. Time framework for the study, approximately taken 5-6 months. Informed consent, approval from all participants and free participation provided to participants in participation in studies or refusal to participate. Ethical consideration of sufficient research information was provided to the participants with the full approval of the agreement and this was achieved through an approval form attached to the questionnaire. To keep the teacher secret, no one will even allow the other researcher to read the guestionnaire. The Nuremberg Code of Ethics will protect the right of participants.

Results

Demographic Characteristics of Respondents

T	a	bl	e	1	

Characteristics	Catagorica	Respondents		
Characteristics	Categories	Number	Percentage	
Conder	Male	46	44.7	
Gender	Female	57	55.3	
Acc	21-25	11	10.7	
Age	26-30	15	14.6	

Characteristics	Categories	Respondents		
		Number	Percentage	
	31-35	12	11.7	
	36-40	16	15.5	
	41-45	20	19.4	
	Above 45	29	28.2	
Marital status	Married	63	61.2	
	Unmarried	40	38.8	

Data was collected from both genders. The results in Table 1 show that 53.3 % of responses were taken from male patients and 44.6% of respondents were females distribution can be seen in the table. The respondents included 10.7% of the 20-25 age group, 14.6% 26-30 age group, 11.7% of the 31-35 age

group, 15.5 % 36-40 age group, 19.4% 41-45 age group, and 28.2 % respondents were belonging to 46 above age group. The married ratio of respondents was 61.2% and the rests of the respondents were unmarried.

Descriptive Analysis

Table 2

S.		YES (%)	No (%)
No		F	F
1	Performance activities, such as running, lifting heavy objects, and participating in strenuous sports	24(23.3)	79(76.7)
2	Performing activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf	44(42.7)	59(57.3)
3	Lifting or carrying groceries	59(57.3)	44(42.7)
4	Lifting or carrying groceries	43(41.7)	60(58.3)
5	Bending, kneeling, or stooping	60(58.3)	43(41.7)
6	Walking more than a mile	50(48.5)	53(51.5)
7	Bathing or dressing yourself	78(75.7)	25(24.3)
8	Cut down the amount of time you spent on work or other activities	54(52.4)	49(47.6)
9	Feeling limited in the kind of work or other activities	54(52.4)	49(47.6)
10	Felt difficulty performing the work or other activities	64(62.1)	39(37.9)
11	A very nervous person	47(45.6)	56(54.4)
12	Felt so down in the dumps that nothing could cheer you up?	54(52.4)	49(47.6)
13	Felt calm and peaceful	60(58.3)	43(41.7)
14	Have a lot of energy	27(26.2)	76(73.8)
15	Felt downhearted and blue	57(55.3)	46(44.7)
16	Did you feel exhausted?	72(69.9)	31(30.1)
17	Have you been a happy person?	59(57.3)	44(42.7)
18	Feeling tired	67(65.0)	35(34.0)
19	Seem to get sick a little easier than other people	57(55.3)	46(44.7)
20	Seem to get sick a little easier than other people	57(55.3)	46(44.7)
21	As healthy as anybody I know	45(43.7)	58(56.3)
22	Expect my health to get worse	62(60.2)	41(39.8)
23	Health is excellent	34(33.0)	69(67.0)
24	Much better now than one year ago	51(49.5)	52(50.5)
25	About the same as one year ago	46(44.7)	57(55.3)

Results of Table 2 show that 23.3% of respondents answered yes and 76.6 % of respondents answered no regarding question 1. Table 4.2 also shows that 42.7% of respondents show that the answer is yes

and 57.3% of respondents answer no regarding question no. 2. Further, Table 4.2. reveals that 57.3% of respondents agreed and 42.7% of respondents said no regarding question no. 2.

Similarly Table 4.2 shows that 58.3% of respondents answered yes and 41.7% of respondents answered no regarding question no.3. Furthermore, most of the respondents agreed regarding the asked questions which can be seen in Table 4.2

Discussion

Medical assistants and experts ought to collaborate with patients to assemble timetables and plans that will improve patients' wellbeing-related personal satisfaction, similar to diminishing discouragement as their ailment gets unending (Mousa, 2018). Chronic kidney disease seriously impacts the quality of life of patients with unfriendly impacts watched physical and mental areas. The gravity of the infection and its ceaseless nature make it critical to give due consideration to the quality of life of such people. OOL is developing as a significant result parameter to survey patients experiencing Haemodialysis and screen their advancement and adequacy of ailment the executives. This examination shows the quality of life in various spaces, of patients with constant kidney illness experiencing maintenance Haemodialysis, and the elements in charge of such results. Past investigations demonstrate that the quality of life of Haemodialysis patients is lower than those of the overall public. Despite the exacerbating of the physical well-being status the psychological wellbeing status of Haemodialysis patients is generally protected and announced. The statistical factors demonstrate that more seasoned Age over 46, 55.3% Female gender, 68.2% Married and low financial status level influence the personal satisfaction of hemodialysis patients. In our investigation of physiological and mental variables influencing the Quality of life of Haemodialysis patients, 76.70% of people are not ready to play out their exercises of the day by day life, for example, running, lifting substantial items and taking part in strenuous games, 58.3% are not ready for climbing a few flights of stairs, 51.5% are not ready to walk in excess of a mile, 52.43 likewise chopped down the measure of time spent on work or different exercises. 54.43 They feel dumped that nothing can perk up, and 69.90 people feel depleted. 61.19% expect their well-being to deteriorate, and 50.5% felt sad and blue.

Recommendations

Haemodialysis patients more than 65 years of age experience useful hindrance and incapacity expressed that inability in haemodialysis patients is related to hospitalization uneasiness and necessities of patients appear to be intuitive. Tension expands patients' needs, however; then again, neglected needs may build nervousness. Additionally, analysis and treatment of tension in hemodialysis patients are regularly thought little of or deferred on the grounds that the side effects of nervousness are normally credited to uremia. In our examination, patients over 46 years of age patients, experience most physical issues during Haemodialysis (DhimaXhuliaJakuGerta, et al). Low financial status is connected with the higher demise rate, potentially, because of low social help or constrained monetary assets that may thusly influence emotional wellness. On the other hand, high financial status is connected with better personal satisfaction, larger amounts of everyday exercise and lower dimensions of sorrow. It is basic for Nephrology attendants to give more opportunities to Haemodialysis patients on a customary premise, in this manner understanding their more profound needs, qualities and recognitions of the infection (Maria Polikandrioti, et al).

Conclusion

Different factors like gender, age, marital status, unemployment, and socioeconomic status, affect QOL in HD patients. Physiological and psychological factors positively affect the Quality of life of haemodialysis patients. The explanation behind the most noticeably terrible score in the physical area in Haemodialysis patients is reliance on therapeutic help, severe treatment routine of twice or thrice a week by week HD, detail of torment and wretchedness every one of the occasions, aggravated rest and stability which influence their Quality of life. These patients need to confront numerous circumstances, for example, explicit dietary routine, changes in their self-perception, and reliance on machines which builds uneasiness and influence Quality of life. Different elements are late referral to nephrologists, utilization of essential access catheter for dialysis and lacking dialysis, which influences Ouality of life as indicated by worldwide writing. Sexual orientation influences Quality of life when all is said in done populace and Haemodialysis patients too. Females have a low

quality of life when contrasted with male patients. People have a better quality of life in the social relationship area when contrasted with females. Gender has positive outcomes on physiological and mental well-being. (Muhammad Anees, et al).

Limitations of the Study

The study was conducted at a single centre and recruited only patients from one hospital. Therefore,

we cannot generalize the results for all chronic kidney disease patients.

References

- Aldukhayel, A. (2015). Prevalence of Depressive Symptoms among Hemodialysis and Peritoneal Dialysis Patients. *International Journal of Health Sciences*, 9(1), 9–15. https://doi.org/10.12816/0024678
- Anees, D. M. (1969). DEMOGRAPHIC FACTORS AFFECTING QUALITY OF LIFE OF HEMODIALYSIS PATIENTS-LAHORE,PSKISTAN. *Pakistan Journal of Medical Sciences*, *30*(5). https://doi.org/10.12669/pjms.305.5239
- Bowry, S. K., & Gatti, E. (2011). Impact of Hemodialysis Therapy on Anemia of Chronic Kidney Disease: The Potential Mechanisms. *Blood Purification*, *32*(3), 210–219. https://doi.org/10.1159/000329573
- Finnegan-John, J., & Thomas, V. J. (2013). The Psychosocial Experience of Patients with End-Stage Renal Disease and Its Impact on Quality of Life: Findings from a Needs Assessment to Shape a Service. *ISRN Nephrology*, 2013, 1–8. https://doi.org/10.5402/2013/308986
- Gerogianni, S. K. (2014). Psychological Aspects in Chronic Renal Failure. *HEALTH SCIENCE JOURNAL*, *8*(2), 10. <u>https://www.itmedicalteam.pl/articles/psycholo</u> <u>gical-aspects-in-chronic-renal-failure.pdf</u>
- Ghonemy, T. A. (2016). Chronic pain in hemodialysis patients: Role of bone mineral metabolism. *Alexandria Journal of Medicine*, *52*(4), 337–342. https://doi.org/10.1016/j.ajme.2015.12.002
- Jankowska-Polańska, B., Uchmanowicz, I., Wysocka, A., Uchmanowicz, B., Lomper, K., & Fal, A. M. (2016). Factors affecting the quality of life of chronic dialysis patients. *The European Journal* of *Public Health*, 262–267. <u>https://doi.org/10.1093/eurpub/ckw193</u>

- Joshi, U., Subedi, R., Poudel, P., Ghimire, P. R., Panta, S., & Sigdel, M. R. (2017). Assessment of quality of life in patients undergoing hemodialysis using WHOQOL-BREF questionnaire: a multicenter study. *International Journal of Nephrology and Renovascular Disease*, Volume 10, 195–203. https://doi.org/10.2147/ijnrd.s136522
- Mollaoğlu, M. (2017, may 29). Quality of Life in Patients with Chronic Renal Failure and Some Affecting Factors. *Archives of Renal Diseases and Management*, 07. <u>https://www.peertechzpublications.com/Renal-</u> Diseases-Management/ARDM-3-120.php
- Mousa, I., Ataba, R., Al-ali, K., Alkaiyat, A., & Zyoud, S. H. (2018). Dialysis-related factors affecting self-efficacy and quality of life in patients on haemodialysis: a cross-sectional study from Palestine. *Renal Replacement Therapy*, 4(1). https://doi.org/10.1186/s41100-018-0162-y
- Seica, A., Segall, L., Verzan, C., Vaduva, N., Madincea, M., Rusoiu, S., Cristea, S., Stefan, M., Serbanescu, D., Morosanu, P., Grajdeanu, L., Andronache, R., Nechita, M., Dragos, D., Dronca, A., Gusbeth-Tatomir, P., Mircescu, G., & Covic, A. (2008). Factors affecting the quality of life of haemodialysis patients from Romania: a multicentric study. *Nephrology Dialysis Transplantation*, *24*(2), 626–629. https://doi.org/10.1093/ndt/gfn506
- Shim, H. Y., & Cho, M.-K. (2017). Factors influencing the quality of life of haemodialysis patients according to symptom cluster. *Journal of Clinical Nursing*, 27(9-10), 2132–2141. https://doi.org/10.1111/jocn.13904
- Xhulia, D., Gerta, J., Dajana, Z., Koutelekos, I., Vasilopoulou, C., Skopelitou, M., & Polikandrioti, M. (2015). Needs of Hemodialysis Patients and Factors Affecting Them. *Clobal Journal of Health Science*, 8(6), 109. https://doi.org/10.5539/gjhs.v8n6p109

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