**DESCRIPTIVE STUDIES OF KIDNEY FAILURE**

**IN BANGAH VILLAGE, GEDANGAN SUB-DISTRICT**

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***Abstract:***

*Kidney failure is the inability of the kidneys to function adequately for the body's needs (must be assisted by dialysis or transplantation. Generally, patients are not aware that they are suffering from terminal kidney failure because this disease progresses gradually and takes years as the patient's kidney function declines. There are two general terms for Kidney Failure, namely, Acute Kidney Failure and Chronic Kidney Failure. According to 2018 World Health Organization (WHO) data, around 71% of deaths in the world are caused by Non-Communicable Diseases (PTM).In 2020, it is estimated that the death rate this will increase to 73%.The results of basic health research (Riskesdas) 2013, stated that Chronic Kidney Failure (CKD) increased from 20% to 38% in 2018. The problem is that the authors are interested in conducting research entitled "Descriptive Study of Kidney Failure RT 08 RW 02 Bangah Village, Gedanga District. Based on the background above, it can be seen that the incidence of Kidney Failure in Sidoarjo is increasing and high in Bangah Village. So the problem is that the authors are interested in conducting research entitled "Descriptive Study of Kidney Failure Disease RT 08 RW 02 Bangah Village, Gedangan District. This study aims to find out about descriptive studies of kidney failure. The type of research used is descriptive analytic with a cross sectional approach. The sampling technique in this study is total sampling. Data collection was carried out by filling out a questionnaire prepared by the researcher. The results of the study revealed that of the 40 respondents in Bangah village, it was shown that the majority. Enough knowledge about kidney failure with the criteria of 16 respondents (40%).*

***Keywords:*** Knowledge, Disease, Kidney Failure.

1. **INTRODUCTION**

Kidney failure is the inability of the kidneys to function adequately for the body's needs (must be assisted by dialysis or transplantation. Generally, patients do not realize that they are suffering from terminal kidney failure because this disease progresses gradually and takes years as the patient's kidney function declines.

Patients with Kidney Failure require Kidney Replacement Therapy (TPG) to be able to replace their kidney function. Until now there are two types of kidney replacement therapy, namely hemodialysis or in common terms known as dialysis therapy and kidney transplantation which can be obtained from living donors and corpses.

When a person is sentenced to suffer from Kidney Failure, he must undergo hemodialysis therapy regularly for life one to three times a week depending on the condition of the patient's kidneys. They not only experience physical suffering but also mental suffering such as anxiety disorders, depression or even psychosis. Generally, the symptoms that sufferers show more often are depression and disappointment, because on the one hand they have to depend for life on dialysis machines and on the other hand they have to continue to carry out roles and activities in their lives (Purnama, 2016).

The kidneys regulate the balance of body fluids, electrolytes and acid base by filtering blood through the kidneys, selectively reabsorbing water, and excreting excess as urine and removing metabolic waste (urea, creatinine and uric acid) and foreign chemicals (Rivandi & Yonata, 2015 ).

Kidney failure is a condition where there is a decrease in kidney function optimally to remove waste products and excess fluids from the body. Decreased kidney function can occur as a result of a disease, anatomical abnormalities of the kidneys and diseases that attack the kidneys themselves. If only 10% of the kidneys are functioning, the patient is said to have reached kidney disease. Kidney failure is a world health problem seen from the increasing incidence, prevalence, and morbidity rates (Hartini, 2016). Kidney disease is an important organ in our body's metabolic system, because of the busy activity, we often forget to take care of it (Azhar et al., 2014).

According to data from the World Health Organization (WHO) for 2018, around 71% of deaths in the world are caused by Non-Communicable Diseases (PTM). In 2020, it is estimated that this mortality rate will increase to 73%. The results of basic health research (Riskesdas) 2013, stated that Chronic Kidney Failure (CKD) increased from 20% to 38% in 2018 (Ummi et al., 2021).

Kidney failure is a condition where there is a decrease in kidney function optimally to remove excess waste and fluids from the body. Decreased kidney function can occur as a result of a disease, anatomical abnormalities of the kidneys and diseases that attack the kidneys themselves. If only 10% of the kidneys are functioning, the patient is said to have reached end-stage renal disease (ESRD) or end-stage kidney disease. Onset of Renal Failure may be Acute, that is, it develops rapidly within hours or days. Kidney failure can also be chronic, that is, it occurs slowly and develops slowly, perhaps over several years. Kidney failure patients need renal replacement therapy, namely hemodialysis. These patients must undergo hemodialysis therapy throughout their lives, usually 3 times a week for at least 3 hours or 4 hours per treatment. Family support is needed by patients to comply with hemodialysis therapy for the rest of their lives.

Kidney Failure is a condition where the kidneys cannot perform their functions properly. All over the world, cases of kidney failure, which are increasing every year, are chronic kidney failure. In Indonesia, according to data from researchers (Indonesian Neutrology Association), there are an estimated 70 thousand sufferers of chronic kidney disease (Wijayanti et al., 2018).

The aim of the study was to identify the characteristics of RT 08 RW 02 Bangah Village, Gedangan District, and identify knowledge about Kidney Failure in RT 08 RW 02 Bangah Village, Gedangan District, about Kidney Failure.

1. **RESEARCH METHOD**

The type of research used in this research is quantitative research with the research design used is a descriptive survey. This research is a descriptive study of Kidney Failure in RT 08 Rw 02 Bangah Village, Gedangan District. The population in this study was in RT 16 RW 03 Bangah Village, Gedangan District with a total of 40 respondents. The sample in this study is people who meet the following criteria:

1. Is a resident of RT 08 RW 02 Bangah Village, Gedangan District
2. Middle adults aged 40-59 years male and female, totaling 40 people, because kidney failure is more common in adults.

The research location was at RT 08 RW 02 Bangah Village, Gedangan District. The research was conducted in January - May 2023 at RT 08 RW 02 Bangah Village, Gedangan District. The data collection method is a technique for obtaining data which is then analyzed in a study. The data collection technique used in this study is a questionnaire. The questionnaire is a data collection technique that is carried out by giving a number of questions or written statements to the respondent to answer.

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1. **RESULTS AND DISCUSSION**

**Characteristics of Respondents**

Table 3.1: Distribution of Clients by age in RT 08 RW 02 Desa Bangah in March-May 2023.

|  |  |  |  |
| --- | --- | --- | --- |
| NO | Age  | Frequency | Percentage |
| 1. | 41-45 year | 11 | 28% |
| 2. | 46-50 year | 14 | 35% |
| 3. | 51-55 year | 8 | 20% |
| 4. | 56-59 year | 7 | 17% |
| Amount | 40 | 100% |

Table 3.2: Distribution of respondents by gender in RT 08 RW 02 Bangah Village in March-May 2023.

|  |  |  |  |
| --- | --- | --- | --- |
| NO | Gender | Frequency | Percentage |
| 1. | Male | 6 | 15% |
| 2. | Female | 34 | 85% |
| Amount | 40 | 100% |

Table 3.3: Distribution of clients based on last education at RT 08 RW 02 Desa Bangah in March-May 2023.

|  |  |  |  |
| --- | --- | --- | --- |
| No | Education | Frequency | Percentage |
| 1. | Elementary School | 3 | 7% |
| 2. | Junior High School | 6 | 15% |
| 3. | Senior High School | 16 | 40% |
| 4. | Vocational School | 9 | 23% |
| 5. | Banchelor | 6 | 15% |
| Amount | 40 | 100% |

Table 3.4: Distribution of clients based on work in RT 08 RW 02 Desa Bangah in March-May 2023.

|  |  |  |  |
| --- | --- | --- | --- |
| NO | Type of work | Frequency | Percentage |
| 1. | Private employees | 15 | 37% |
| 2. | Housewife | 21 | 52% |
| 3. | Civil servants | 1 | 3% |
| 4. | Businessman | 2 | 5% |
| 5. | Doesn`t work | 1 | 3% |
| Amount | 40 | 100% |

**Level of knowledge about kidney Failure**

Table 3.5: Knowledge of Kidney Failure in RT 08 RW 02 Bangah Village in March-May 2023

|  |  |  |  |
| --- | --- | --- | --- |
| NO  | Knowledge category | Frequency | Percentage |
| 1. | Good | 14 | 35% |
| 2. | Enough | 16 | 40% |
| 3. | Not enough | 10 | 25% |
| Amount | 40 | 100% |

1. **CONCLUSIONS AND SUGGESTIONS**

CONCLUSION

1. Knowledge characteristics of Kidney Failure based on age found that the majority were aged 46-50 years as many as 14 people (35%). Knowledge characteristics of Kidney Failure based on gender found that the majority were female as many as 34 people (85%). Characteristics of knowledge of Kidney Failure based on the last education, most of the last high school education amounted to 16 respondents (40%). Characteristics of knowledge of Kidney Failure based on the work of most of the work of Housewives (IRT) totaling 21 respondents (52%).
2. According to the research above, it can be seen that as many as 14 people (35%) are good knowledgeable. As many as 16 people (40%) have sufficient knowledge and only 10 people (25%) have less knowledge. So it can be concluded in this study that the knowledge of Kidney Failure in RT 08 RW 02 Bangah Village. As many as 16 people (40%) have sufficient knowledge.

SUGGESTION

1. For Respondents

For respondents with knowledge of Kidney Failure who have just been diagnosed or just found out if Kidney Failure is expected to increase their curiosity, concern for their disease, starting from causes, complications, methods of treatment. This is due to the danger of Kidney Failure which can be fatal.

1. For Further Researchers

For future researchers, it is hoped that they will conduct research in other villages related to Kidney Failure, so that they know how the level of public knowledge of Kidney Failure is.

1. For Educational Institutions

It is hoped that the results of this research will become a study and a source of literature for Medical Surgical Nursing on Kidney Failure, so that nursing students have a good understanding of Kidney Failure in Villages/other service facilities.

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