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Patients' Knowledge: The Use Of Captropil In The Treatment Of Hypertention Disease In Age 30 -60 Years At The Suai Health Center, Village The Municipality Of Covalima [2024].

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### **ABSTRACT**

**Introduction:** Hypertension is a health problem in all parts of the world and as one of the main risk factors for cardiovascular diseases. Hypertension is also called as a non-communicable disease because hypertension is not transmitted from person to person.

**Research Objective:** To know the level of knowledge of patients the use of drug captropil in the treatment of hypertension diseases in age 30 -60 years in Suai Health Center Village the Municipality of Covalima Timor Leste.

**Research Methodology:** We use quantitative descriptive method, through the technical approach of sectoral study and technique analyzes data is univariate.

Results Discussion: The results of this research were about the level of knowledge of patients about the use of captopril drugs for patients with hypertension at the Suai Vila Health Center. The results of this research are divided into (2) parts as general and specific data. It shows that the level of knowledge knowing, the highest percentage is the level of knowledge of the category sufficient with a percentage of 37 (79%), is the level of knowledge and the lowest category less with a percentage of 6 (8%). Based on the results, the level of knowledge that they understand about the use of captopril drugs for the patient with the highest percentage of higher is the level of knowledge of the category sufficient with a percentage of 34 (47%). The lowest percentage is the level of knowledge in the category less than 9 (13%), cited by (Tilman CB., 2024).

**Conclusion:** patients' level of knowledge the use of captropil drug in the treatment of hypertension diseases at age 30-60 years in Village Health Center the Municipality of Suai Covalima Timor-Leste the approximately are sufficient real situation cited by [Tilman CB., 2024].

AJMCRR, 2024 Volume 3 | Issue 7 | 1 of 9

**Key words:** Knowledge, Hypertension, Medications and Captopril.

### **INTRODUCTION**

the same direct contamination.

country with increasing prevalence. The current Health TL, 2023; Tilman CB., 2024). hypertension disease with temporary duration will man CB., 2024).

Asia Region is 37% and causes the mortality of local data of Captopril drugs were consumed in almost 1,500 people per year. The prevalence of 2021 with 3,974 tablets and in 2022 were 4,269 hypertension in the Soult-East Asia Region is 37% tablets and in 2023 were 4,028 and a total of and causes the mortality of almost 1,500 people per 12,271. tablets used. Data were collected from the year. According to data from Asia 2016, in the patient consuming captopril drugs daily at the Suai countries Indonesia data prevensia had 25.8% of Vila Health Center 2021 – 2022, January-August, hypertensions, the data show more than 30% in 2023. (CSSV, 2023, cited by Tilman CB., 2024). Asia, in Bangka Belitung, and the data are the lowest in Papua 16.8%. (WHO, 2017). Hypertension Research Objective: To know the level of is a common problem in the Soult-East Asia Re- knowledge of patients about the use of the drug

ease. To do this, it is necessary to adapt adult cli-Hypertension is a health problem in all parts of the ents to the treatment and prevention of these hyperworld and as one of the main risk factors for cardi-tension diseases. Obesite has become the first facovascular diseases. Hypertension is also called as a tor of hypertension in the Soult-East Asia Region, non-communicable disease because hypertension is making the descent of obesity help reduce the disnot transmitted from person to person is clearly not ease in the future (WHO, 2019). National data collected by the WHO researcher (2022), in Timor Leste the mortality rate due to hypertension Globally, hypertension is one of the most serious reached 156 (2.21%) of the total deaths, the mortalproblems in the world. However, according to the ity rate by age category was 24.12 per 100,000 (per World Health Organization (WHO, 2018) it is esti- hundred thousand) of the population of Timor mated that 7.5, or 12.8% of the mortality outbreak, Leste and is in the world ranking. 60 meningeal and it is estimated that by 2025 thousand adults diseases due to hypertension. According to data will have had the disease, with Africa prevailing from the Ministry of Health of Timor-Leste, divi-46% of hypertension in the world and less than sion of non-communicable diseases, hypertension 35% in America. The World Health Organization in 2021 was 11,646 cases in 2022 from January to (WHO, 2021) also reports that developed countries December there were 4,477 cases and the fundahave low pressures in the extreme developing mental report mentioned cited by (Ministry of

cause complications such as heart disease, throm- The national Captopril drug data was consumed in bosis, kidney and green failures according the 2021 with 2,720,025 tablets and in 2022 were guidelines standard mentioned (WHO, 2021; Til- 3,223,267 and a total of 5,943,292. tablets used. The data were collected by the Ministry of Health through the National Directorate of Pharmacy of The prevalence of hypertension in the Soult-East Dili, on August 23, 2023 (MSDNFM, 2023). The

gion and is the leading cause of cardiovascular dis- captropil in the treatment of hypertension diseases

**AJMCRR, 2024 Volume 3 | Issue 7 | 2 of 9** 

### THEORETICAL FRAMEWORK

The drug captopril entered the Anjiontensin Con-blood vessel, which causes people's hearts to verting Enzyme Inhibitor (ACEI) group. Accepting smoke as quickly as possible with blood in all bod-Captopril serves as the end of the production of ies according to the results (Tim Bumi Medica, angione hormones. The blood vessel may be nor- 2019; Tilman CB., 2024). According to the Joint mal so that the pressure goes down, the supply of National Committee (JNC), in 2019, the classificaoxygen in the heart increases significantly. The tion of hypertension is as follows: first captopriis drugs treat diseases of high blood pressure or high blood pressure and can be used alone and combined with other anti-hypertension drugs (Swari, 2017, cited by Tilman CB., 2024).

- 1. Accepting medicines that work in a straight way: e.g. Captopril
- 2. Pro- pharmacist that the drugs are not right or inactive: e.g. enalapril, perindopril, ramipril, benazepril, and fisinopril.
- 3. Hypertension

According to the Lanni (2010 cited by Tilman CB., into two groups: 2024) Hypertension diseases are true that result in 1. Essential hypertension or pathology (first sublood vessels that happened from the proliferation of O2 and nutrition that carry in the intucated blood up to the precious tissue. Hypertension is often referred to as a murder and sillent killer, 2. Secondary hypertension indicates that the spesince the sufferers are also mortally deceased and related to the signs that are the victims' memory. Hypertension is one of the deadliest diseases of human life, with a higher risk because it can cause complications from the disease in older people. Hypertension is the highest blood pressure in the human body, when systolic and diaspora pressure pass normal limits. (Comang Erdwin Wicaksana, 2018).

Hypertension is a systolic condition elevated to 120 mmHg and blood pressure higher than 80 mmHg. Blood pressure, which lasts for a longer

in age 30 -60 years in Suai Health Center Village time, can destroy, along with kidneys, hearts, and of the Municipality of Suai Covalima Timor-Leste. brains, other organs. (Iria Noviana, 2016). Hypertension or blood pressure is a disease that, in large part, is due to the increase in blood pressure in the

Table 1. Classification of hypertension

Blood Pressure Rating Abstemi- ous Strongly	Systolic blood pres- sure (mmHg)	Diastolic blood pres- sure (mmHg)
Normal	<120 AM	< 80
Prehypertension	120-139	80-89
Level 1 hypertension	140-159	90-99
Level 2 hypertension	>160 years	100

The etiology or causes of hypertension are divided

- pertension) shows that the causes are still unknown, an essential hypertension of conditions not curable but just controllable.
- cific causes have been detected and patients have been caused by (secular hypertension), doctors will be able to monitor or diagnose patients (Suhadi, 2013; cited by Tilman CB., 2024).

Multi factors with primary hypertension are:

- 1. Coverage of the renin-angiotensteron system, natriuretic hormone, and hyperinsulinemia is not normal.
- Problems of pathology in the nerve center of the otonom capillary, plasma volume and arterial constriction.

**AJMCRR, 2024 Volume 3 | Issue 7 | 3 of 9** 

- Natrium is strongly increased and increases the **Genetics** pressures.
- (ISO Pharmacotherapy, 2018).

The risk factors for hypertension divided into two groups are the risk factor for hypertension that can be changed and there are also risk factors for hypertension that cannot be changed, the continuation in the standard operational cited by (Tim Bumi Medi- Risk Factors Can Change for Hypertension ka, 2019; Tilman CB., 2024).

## Risk factors for hypertension should not be changed

### Age:

Age is one of the factors that has great consequences in finding hypertension or high blood pressure diseases that do not change. Age usually increases in which cases of hypertension also increase and we will continuation of treatment standard medications cited by (Triyanto, 2014; Tilman CB., 2024)

### Sex

Sex is one of the factors that is causing the consequences of suffering from diseases, hypertension that cannot be changed or have to suffer. In this sense, most men face this disease compared to women. at a time when there are alleged men who achieve an unhealthy lifestyle compared to women.but that hypertension diseases prevail in women after their monopause age. It should be recalled that there have been changes in the hormonal in which women are found and then go into monopause.

circulation of natriutetica harmonies that The consequences of this hypertension and tension transport an intracellular natrium, producing are greater with family members of close neighbors and increasing vascular reactivites and blood suffering from or attacking tension diseases. In this sense, the generation factors are also related to the 4. Increase the concentration of calcium in- metabolism of salt form (NaCl) and the renunciatraceluler, and alter asscular, lighter muscle tion of cell membranes. Hence, the factor has functions and increase peripheral vascular re- marked consequences on tensions, which can minisistance International Standard Operational mize or eliminate through obeseness, the smoking tone, smoking, the consumption of alcohol and coffee, the consumption of salt, long-standing, and the balance in the hormonal system to be functions cited by. (Tim Bumi Medika, 2019; Tilman CB., 2024).

# **Obesity:**

Obesitas has been known to supply hypertension and potential denegueta diseases such as strokes and heart attack diseases that is the key point cited by. (Tim Bumi Medika, 2019; Tilman CB., 2024).

### Smoke:

Smoking is one of the factors associated with hypertension, so smoking is continuous. Cigarette smoke can cause nicotins to be absorbed by blood vessels in the lower lungs and then carried to the brain. In the nicotinal brain, the adrenal glands are signaled to abandon and extract epinephrines or adrenalines, which give a small blood vessel and force the heart to work more closely in the face of high arterial pressure in human body cited by (Tim Bumi Medika, 2019; Tilman CB., 2024).

### **Alcohol consumption**

Alcohol or wine are also one of the factors that have great consequences for sowing hypertension or stroke diseases to strong-headed symptoms. Thought has an impact on the red blood cells in our bodies, which cause the bodies to clot and ultimate-

AJMCRR, 2024 **Volume 3 | Issue 7 | 4 of 9**  (Tim Bumi Medika, 2019; Tilman CB., 2024).

### **Consume more salt**

Salt consumption is largely caused by hyperten- therapies are the same: sion. The subject refers to salt (NaCl), here very natrium and they can attract blood out of the cells Diuretic class and even remove it to happen to the dead cells of Diuretic thiazide is usually a primary treatment the body. This problem is the increase in blood vol-drug for patients with hypertension. Diuretics helps ume.

### **Stress (suffering) more aspects:**

of hypertension diseases is very dangerous for kidney pain. those who have their own problems with others until the person suffers from tension disorders. People ACE-inhibitor of human (Tim Bumi Medika, 2019; Tilman CB., tients with diabetic proteinuria. 2024).

pertension in the primary does not give any sign, if Converting Enzyne (ACE)-inhibitor. the blood pressure is taken to physical tests in clinics to understand the hypertension of the patients. Antagonistic football The diagnosis of minimal hypertension two times Antagonis calcitated dilation of blood vessels with pertension way and more understanding of the conheadaches in the process of treatment. ditions in human being cited by (Tomashi, 2019; addition to non- Vasodilator Tilman CB.. 2024). In pharmacological forms of treatment, the first treat- Vasodilator directly dilated blood vessels. Drugs in on factors such as high arterial pressure, damage medical treatment based on guidelines.

ly give rise to tension process bodies indicated worthy of some organs, clinical manifestations of cardiovascular disease, or other risk factors. The treatment of hypertension as the treatment is long, it can be treated throughout life. Pharmacology

the kidneys draw out salt and water, which reduces the volume of fluid throughout the body while lowering artery pressure. Dilation can also be done in Suffering or too many ideas are serious conse- blood vessels. Diuretics is more effective than inquences of a serious stress disorder. The occurrence creasing black skin, age, heart failure patients, and

are on an equal footing; Stutterers, fear, patience, Dilate arteries. The drug is even more effective by upset and feel with a mistake of action and that the donating it: the patients who were piled up, at the heart can suffer a serious illness of tension in body ages of the young, the cardiac incifuences, the pa-

### Angitenci-II-blocker

The most well-known hypertension in the Lingues Angiotensin-II-blocker lowers arterial pressure World is that "silent killer" since a person with hy- with a mechanism similar to that of Angiotensin

should be made regularly in the clinic to know the different mechanisms. The most effective are the results of arterial hypertension or through the num- data for whom black skin, with increased age, pabers identified by the classification of arterial hy-tient's angina pectoris (eye cuts), faster heart rates,

ment of hypertension from drugs is the first. The this group are almost always used additionally decision to launch antihypertensive drugs is based against other forms of antihypertension that exist in

AJMCRR, 2024 **Volume 3 | Issue 7 | 5 of 9** 

### RESEARCH METHODOLOGY

Sectional study and technique analyzes data is uni- Timor-Leste. variate. Samples of this research totaled prescriptions with (72) captopril drugs obtained through sloven formulations. We use technical data collection directly descended from local search data to Sciences) computer program version 22.

### **RESULTS OR FINDING:**

Table 4.1 Frequency distribution according to respondent characteristics based on gender.

No	Sex	F	%
1	Male	22	31
2	Female	50	69
	Total	72	100

Table 4.2 Frequency distribution according to respondent characteristics based on age.

No	Age	F	%
1	30-35	19	26
2	35-45	39	54
3	45-50	5	7
4	50-60	9	13
	Total	72	100

Table 4.3 Frequency distribution of respondent characteristics based on profession level.

		E	
		Frese-	
	Profes-	quenc	
No	sion.	e	%
	Civil		
1	servant	13	18
2	Service	12	17
3	Farmer	7	10
	House-		
4	wife	29	40
5	Students	11	15
То	tal	72	100

Table 4.4 Types of Knowledge Level for the Use of We use quantitative descriptive method, through Captopril Drugs for Hypertension at the Suai Vilthe technical approach of sectoral study or Cross- lage Health Center of the Municipality of Covalima

No	Category Knowledge	Frequency	%
1	Good	29	40
2	Enough	37	51
3	Less	6	8
Total		72	100

primary data collection and questionnaire. The Based on the table above, it shows that the level of technical sample was used for the Non probability knowledge knowing, the highest percentage is the sampling in an accidental sampling and analysis Knowledge Level of the category sufficient with a using the SPSS (Statistical Package for the Social percentage of 37 (79%), the table further shows that the lowest percentage is the level of Knowledge and the lowest category less with a percentage of 6 (8%).

Table 4.5 Type of Knowledge Level Understanding of the Use of Captopril Drugs for Hypertension at the Suai Village Health Center.

No	Category Knowledge	Frequency	%
1	Good	29	40
2	Enough	34	47
3	Less	9	13
	Total	72	100

Based on the search results in the table above, the level of knowledge that they understand about the use of captopril drugs for the patient with the highest percentage of the highest is the level of knowledge of the category sufficient with a percentage of 34 (47%). The lowest percentage is the level of knowledge in the lower category with 9 (13%), cited by (Tilman CB., 2024).

### **DISCUSSION**

Based on the age results, the majority of respondents from the 35 - 45 age groups 39 (54%) and a minority from the 45 - 50 age groups (7%). According to Budi, 2015 states that from the age of 18, hypertension can be a risk. As age increases, it may be less than its elasticity. When the blood

AJMCRR, 2024 **Volume 3 | Issue 7 | 6 of 9**  pump heals throughout the body it can increase, affecting blood pressure as well. According to the writer, increasing the age of a person's knowledge and experience also increases the improvement of hypertension and being able to have a better view of treatment when they have hypertension.

Based on the above-mentioned findings, the majority of respondents were housewives 29 (40%) and a minority of farmers 7 (10%). Poor work is done to 2. meet people, especially in family life. Working is not a source of joy, but most of them, like the search for self-esteem, continue to face many obstacles. It starts to be enough; the level of maturity and strength of the person starts to be more mature, the age of each person starts to age, then the mentality of the developmental process increases well, but the age of the person who ends up increasing the mental development process is faster than the age of the young person.

1. In the discussion, the results of the research will be explained based on the following variables: to know and understand the patient's knowledge about the use of captopril drugs for **CONCLUSION** the respondent had 72 respondents at the Suai the Municipality of Covalima, as follows; Village Health Center. The majority of the interview had a sufficient percentage of 37 Level of knowledge (51%), while the majority had less than 6 (8%) The patient's level of knowledge is mainly known

as: seeing (seeing), hearing (hearing), feeling (spanking), holding (indulgence), and day (smell). Second Fryanti (2015) stated that knowledge is usually derived from experiences that come from diverse sources, such as mass media, electronic media, personal books. To help strengthen one's belief in something so that the person's actions are in line with your knowledge and belief.

Knowledge about the level of understanding of the use of captopril drugs at Suai Vila Health Center. Based on the above findings, the majority of the respondent had 72 based on their understanding at the Suai Health Center, the majority had sufficient knowledge with 34 (47%) and the majority had less knowledge with 9 (13%). According to Notoamodjo (2018), comprehention is the same as giving an explanation of the right things about the object that is known and being interpreted the right things that are understood to clarify and mention a certain subject or subject. For example, remove the completion and predict the object.

patients with hypertension at the Suai Village It lists the main aspects of the research phase of the Health Center, according to the results obtained project, with the beginning and end of the project's at the research site are as follows. Knowledge- development period. Based on the results of the level data based on the level of knowledge research and discussion discussed on the topic of about the use of captopril drugs in patients with patients' level of knowledge the use of captropil hypertension at the Suai Village Health Center. drug in the treatment of hypertension diseases in Based on the above findings, the majority of age 30 -60 years in Suai Village Health Center of

knowledge. The knowledge that results from for the use of captopril sheets for the treatment of this knowledge and reanimation are detected patients with hypertension, mainly in the sufficient through the meanings of the human body, such category of percentage known as 37 (51%) and less

**AJMCRR, 2024 Volume 3 | Issue 7 | 7 of 9**  than 6 (10%).

### **Level Comprehension**

The patient's level of knowledge, especially the understanding of the use of captopril medication for the treatment of patients with hypertension, is mostly in the sufficient category by the percentage of sufficient comprehension 34 (47%) and less than 9 (13%), based on research results cited by (Tilman CB., 2024).

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AJMCRR, 2024 **Volume 3 | Issue 7 | 8 of 9** 

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AJMCRR, 2024 **Volume 3 | Issue 7 | 9 of 9**