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Horizontality Patients' Knowledge About the Use of Omeprazole Medication for the Treatment of Gastritis Disease at the Same Health Center Manufahi Timor-Leste, 2025

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## Abstract

**Introduction:** The drug omeprazole is a proton pump inhibitor (PPI) commonly used to treat various stomach conditions, such as gastritis. Gastritis occurs due to inflammation of the stomach lining, resulting in abdominal pain.

**Research Objectives:** To determine patients' knowledge about the use of omeprazole for gastritis in the same health center.

**Research Methodology:** A descriptive quantitative method was used, using a cross-sectional study approach using a questionnaire. The sampling technique for this study was accidental sampling. Use with the cross-sectional study.

**Results Discussion:** It showed that most patients apply it well to their daily lives, especially because they followed the instructions of their doctors who prescribed omeprazole for gastritis, based on their knowledge and understanding. Based on the survey results, the majority were in the true category, with a percentage of 83%, and the fewest were in the non-true category, with a percentage of 17%.

Conclusion: The "knowledge" aspect, the process of counting the distribution of respondents, obtained the highest value, 93%, in the true category, and the lowest value, 7%, in the non-true category. The "understanding" aspect and the process of counting the distribution of respondents obtained the highest value, 83%, in the true category, and the lowest value, 17%, in the non-true category cited by (Tilman CB., et al, 2025).

**Keyword:** Knowledge of drug use and Omeprazole.

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## Introduction

disease in the lower intestine. It is also used to treat ranking diseases, with 30,154 cases. ulcers associated with Helicobacter pylori infecdisease, when there is hyperacidity.

tion, and are influenced by the side effects of 2025). NSAID (nonsteroidal anti-inflammatory drug) use.

groups, but it strikes in the working age, according of Timor-Leste of the disease control service directo Hamdani et al (2022). Gastritis is an infection torate on gastric disease in the territory of Timorcaused by Mycobacterium and Helicobacter pylori, Leste based on data that the researcher collected causing inflammation of the stomach mucosa, charwith a total of 6,437 patients suffering from gastric acterized by epigastric discomfort, nausea, vomit- disease in the territory of Timor-Leste in the year ing, anorexia, and headaches. This disease attacks 2023 from the beginning of January to the month of many organs, especially those with irregular eating December 2023. Data on the use of the drug patterns, particularly those who drink alcohol and omeprazole used by asthmatics that the researcher smoke tobacco, and also suffer from individual collected within the Ministry of Health Timorstress.

in the stomach wall. When this mucosal barrier is ment of gastritis in the territory of Timor-Leste, damaged, it allows the gastric juice produced by the these data are from the year 2023.

stomach to cause erosions or infections in the The drug omeprazole is a proton pump inhibitor or stomach's protective lining (AGUIAR et al., 2012). PPI (Proton Pump Inhibitor) commonly used to The World Health Organization conducted a review treat various stomach conditions, such as gastritis. of several countries and obtained percentage results Gastritis occurs due to inflammation of the stomach on the incidence of gastritis worldwide, including lining, resulting in abdominal pain, according to England (22%), China (31%), Japan (14.5%), Can-Faridabad, A. (2020). This drug is used to treat the ada (35%), and France (29.5%). Globally, the inciexcessive secretion of gastric juice that occurs in dence of gastritis is around 1.8-2.1% of the world's some conditions, such as gastric ulcers in the stom-population each year (WHO, 2023). The incidence ach or duodenal ulcers and gastroesophageal reflux of gastritis in Indonesia is one of the 10 highest-

tions in combination with antibiotics. Omeprazole From research conducted by the Basic Health Surcan also be used in patients with Zollinger-Ellison vey in (2013), the incidence of gastritis in various regions of Indonesia is quite high, with a prevalence of 274,396 cases in 238,452,952 residents. Gastritis, often called an ulcer, is an inflammatory The data below are that in the city of Surabaya the process or health problem caused by irritation and incidence of gastritis is 31.2%, of which it is 46%, infection in the gastric mucosa and submucosa. while in Central Java the incidence of infection is Gastric disorders can occur due to an imbalance quite due to the unhealthy eating pattern, and less between aggressive factors such as HCl and pepsin, vitamins according to the research carried out by as well as the presence of Helicobacter pylori infec- work according to (Julian, KD, 2021; Tilman CB.,

In fact, gastritis is experienced and felt by all age National data agreement of the Ministry of Health Leste, from the National Directorate of Pharmacy and Medicine (DNFM) with a total of 12,15,302 Gastritis is characterized by inflammatory reactions people who use the drug omeprazole for the treat-

tient knowledge about the use of the drug omepra- pepsin. If the gastric mucosa is damaged, the preszole in the treatment of gastritis disease in Commu- ence of HCl in the gastric mucosa stimulates the nity Health Center Same Administrative Post Same conversion of pepsinogen to pepsin. Pepsin stimu-City, in the Municipality of Manufahi, 2025.

### **Theoretical Framework**

Gastritis, commonly known as stomach ulcers, is pillary damage, resulting in gastric bleeding, a valinflammation of the stomach walls, especially the uable study in applied clinical pathology (Kunti & mucous membranes. Gastritis is the most common Briganti, 2021; cited by Tilman CB., 2024). disorder seen in clinics because diagnosis is based solely on clinical symptoms. This disease often re- Pharmacological treatment of gastritis involves the curs, typically characterized by nausea and vomit- use of medications, such as omeprazole. Omepraing, pain with bleeding, weakness, decreased appe- zole is a medication used to treat excess stomach tite, or headache. Gastritis is a local or generalized acid and its associated complaints. Omeprazole is inflammation of the gastric mucosa that develops commonly used to treat gastroesophageal reflux when the mucosa's protective mechanisms are over- disease (GERD), stomach ulcers (gastritis), or gaswhelmed by bacteria or other irritants, ingested too tric ulcers. Omeprazole can aid in the healing proquickly or by very spicy foods, or infected by other cess of damaged stomach or esophageal tissue due causes, such as alcohol, reflux, gallbladder disease, to irritation caused by excess stomach acid. This or radiation therapy, according to a study by Kunti medication can also increase the effectiveness of & Briganti (2021).

The causes of these diseases are divided into two Allomother (2024). types: external and internal substances. External ing to stomach pain, primarily (Kunti et al, 2021).

damage the gastric mucosa (erosive gastritis). The an N.S. (2023), gastritis can be prevented by: gastric mucosa plays an important role in protect- 1. Eat small amounts frequently and limit foods

Research Objective: To determine the level of pa- ing the stomach or in its autodigestion by HCl and lates the release of histamine from cells. Histamine causes an increase in capillary permeability, resulting in a fluid shift from extracellular fluid and ca-

> antibiotics in combating Helicobacter pylori infection, which causes stomach ulcers, according to

substances are substances that can cause stomach Non-pharmacological treatment for gastritis pacorrosion or irritation. Internal substances produce tients involves eliminating or reducing psychologiexcessive and irregular stomach acid. People with cal stress and reducing the use of NSAIDs irregular eating patterns are susceptible to gastritis. (including aspirin). Patients should also avoid, as When the stomach needs to be filled but becomes much as possible, spicy foods, caffeinated beveragempty or full, stomach acid digests the stomach's es, and alcohol, which can worsen gastritis sympmucous lining. When the stomach is empty, there toms. To normalize stomach acid production, efare more intense gastric peristaltic movements that forts can be made to increase the frequency of constimulate increased stomach acid production, lead-sumption of small, starchy foods, such as rice, corn, and bread, as well as avoiding foods that may irritate the stomach, especially acidic, spicy, fried, or Drugs, alcohol, bile salts, and other irritants can fatty foods. According to the scientific work Eridi-

- that can irritate your stomach, such as very spicy, fried, or fatty foods.
- 2. Eliminate the habit of drinking alcohol. High levels of alcohol consumption can irritate or stimulate the stomach, even causing the lining • of the stomach to peel away, leading to inflammation and stomach bleeding.
- 3. Do not use pain relievers such as aspirin, ibu- Gastritis Disease Classification profen, and naproxen because these medications Acute gastritis can irritate the stomach.
- can prevent the causes of ulcers.
- 5. Exercise regularly
- 6. Stress level management.
- cause stomach bloating, GINTING FF (2021).

Some of the symptoms commonly experienced by dogenous gastritis. Not long ago, it became surpristhose suffering from gastritis is the following:

- stomach
- Nausea and vomiting
- Swollen
- Vomiting blood
- Loss of appetite
- Black stools
- Experiencing digestive disorders

tests to confirm the diagnosis, such as:

lori bacteria.

- Gastroscopy (gastric endoscopy) to determine stomach inflammation. This procedure involves inserting a tube with a camera through the mouth.
- X-ray, to monitor the condition of the upper digestive tract.

Acute gastritis is an acute clinical disorder with a 4. Choose your ideal body weight. Gastrointestinal clear cause, with characteristic signs and sympproblems, such as heartburn, bloating, and con- toms, usually found in acute inflammation. Acute stipation, are more common in obese people. gastritis is an acute inflammation of the stomach, Therefore, maintaining an ideal body weight usually limited to the mucosa. Broadly speaking, acute gastritis can be divided into two categories: acute exogenous gastritis and acute endogenous gastritis. Chemical, thermal, mechanical, and bacte-7. Reduce foods that may contain gas that can rial irritation are the causative factors that usually occur in exogenous gastritis, while irritation due to normal bodily conditions is the cause of acute ening to learn that gastritis or stomach ulcers are usu-Burning sensation and pain in the pit of the ally not caused solely by stress factors or the use of nonsteroidal anti-inflammatory drugs (NSAIDs) such as aspirin.

## **Chronic Gastritis**

Chronic gastritis is a gastritis whose cause is unclear, often multifactorial, and whose clinical course is closely related to Heliobacter pylori infection. Chronic gastritis is a chronic inflammation of Before making a diagnosis, the doctor will ask the gastric mucosal surface that is usually multifacquestions about the patient's symptoms and health torial and has a variable clinical course. Most cases history. This is followed by a physical examination. of chronic gastritis have two types, namely type A, Afterward, doctors often recommend additional which is autoimmune gastritis. Histological changes occur mainly in the body and fundus of the stom-Blood tests, stool sample tests, and urea breath ach. The second type frequently found in cases of tests to detect the presence or absence of H. py- chronic gastritis is type B. Chronic gastritis type B is the most common and is closely related to the

al. (2021).

# Research Methodology

To use the descriptive quantitative method and approximate cross-sectional study to determine the level of patient knowledge about the use of omeprazole for the treatment of gastritis at the tient's level of knowledge regarding the use of focuses on the aspect of patients' knowledge. omeprazole.

## **Result Discussion**

The data that the researcher has already collected at pect. the research site based on general data about the respondent's characteristics and shares based on sex, age and profession.

Table 1. Respondent distribution by gender group.

Sex	Frequency (n)	Percentage (%)
Masculine	11	37
Feminine	19	63
Total	30	100

Table 2. Respondent distribution based on age group.

Age	Frequency (n)	Percentage (%)
17-25	18	27
26-45	16	53
46-65	6	20
Total	30	100

bacterium Heliobacter pylori, according to Kunti et Table 3. Respondent distribution based on profession group.

Profession	Frequency (n)	Percentage (%)
Student	9	30
Employee	16	53
Unemploy- ment	2	7
Farmer	3	10
Total	30	100

Same Health Center. A total sample of 30 patients, The research data that the researcher collected at male and female, began in January and continued the research site from 30 respondents with a total through May 2025. The sample collection tech- of 15 questions based on three (3) aspects with pernique used by the researcher was non-probability centage values of each aspect as follows: sampling, approximated with purposive sampling knowledge of the aspect at 93%, understanding at (Tilman CB. et al., 2025). The technician collects 83% and application at 83% of the total is a result data, and the researcher uses a questionnaire, which of the respondents to the questions that the rethe researcher provides to patients who consult searcher designed in the questionnaire with the corwith the doctor and patients who use omeprazole. rect category. Aspect of "knowledge" characteris-Univariate analysis is used to distribute frequencies tics of the respondents based on the aspect of paand percentages for each variable related to the pa-tients' knowledge for pharmaceutical care which

Table .4. Frequency distribution based on the respondent's characteristics in the "knowledge" as-

No	Category Answers	Frequency	Percentage %
Questions 1	TRUE	21	70
	No	9	30
	Total	30	100
Ques- tions 2	TRUE	28	93
tions 2	No	2	7
	Total	30	100
Questions 3	TRUE	24	80
	No	6	20
	Total	30	100
Questions 4	TRUE	20	67
	<u>No</u>	10	33
	Total	30	100
Questions 5	Yes	25	83
	No	5	17
	Total	30	100

closely at the knowledge aspect, which, through the spondent in this aspect. counting process in the distribution of respondents, the patient's pharmaceutical care or the respond- omeprazole. ent's understanding of medication use.

Table 5. Frequency distribution according to the spondent characteristics based on the "application" characteristics of the respondent or patient based on aspect. aspects of "understanding".

No	Category An- swers	Frequency	Percentage %
Ques- tions 6	TRUE	25	83
	No	5	17
	Total	30	100
Ques- tions 7	TRUE	16	53
tions /	No	14	47
	Total	30	100
Questions 8	TRUE	25	17
	No	5	83
	Total	30	100
Ques- tions 9	TRUE	10	33
	No	20	67
	Total	30	100
Questions 10	TRUE	21	70
	No	9	30
	Total	30	100

the results of the researcher's research from the patients for the application aspect.

Based on the data results in table 4, looking more point of view of understanding the patient or re-

received the highest value of 93%, falling into the Characteristics of the "application" aspect of the "true" category, and the "no" category at 7%. respondents based on the patient level patient as-Therefore, the research results for the knowledge pect of pharmacy services that focus on the patient aspect involve obtaining responses from patients or application aspects of using omeprazole in the responding to them regarding the "understanding " community according to the patients' knowledge, aspect of the respondent's characteristics based on understanding and application of how to consume

Table 6. Frequency distribution by patient or re-

No	Category An- swers	Frequency	Percentage %
Ques- tions 11	TRUE	25	
	No	5	
	Total	30	100
Ques- tions	TRUE	23	
12	No	7	
	Total	30	100
Questions 13	TRUE	24	
	No	6	
	Total	30	100
Ques- tions 14	TRUE	23	
	No	7	
	Total	30	100
Questions 15	TRUE	14	
	No	16	
	Total	30	100

Based on the data results in table 4.2.8. looking at Based on the results of the data in table 2.4.7. look- the application aspect with the counting process in ing at the aspect of understanding that with the pro- the distribution of respondents or patients in the cess of counting the distribution of the respondents application of how to use omeprazole for gastritis, or patients you received the highest value of 83% the highest value is the true category with a perin the category of true aspect, and in the aspect of centage of 83%, and the non-percentage category is not with its percentage which is small is 17%, then the lowest 17%, this is the result of respondents or

## **Conclusion**

Related to the results of the collected research data, to conclude the important points are the following:

"Knowledge" aspect

That with the process of counting the distribution of respondents obtained the highest value of 93%, 6. falls into the category of true and the lowest value is 7%, falls into the category of not.

Aspect "Understanding"

That with the process of counting the distribution 7. of respondents obtained the highest value of 83%, falls into the category of true and the lowest value is 17%, falls into the category of not.

"Application" aspect

of respondents obtained the highest value of 83%, falls into the category of true and the lowest value is 17%, falls into the category of not (Tilman CB., et al, 2025).

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