THESIS

COST-EFFECTIVENESS ANALYSIS OF THE COMBINATION OF VALSARTAN-FUROSEMIDE AND AMLODIPINE-FUROSEMIDE ANTIHYPERTENSION IN HYPERTENSION PATIENTS WITH HEART FAILURE AT DR. MOEWARDI HOSPITAL SURAKARTA



Arranged by:

Helida Haning Taqia Alfiani NIM 422021718037

DEPARTMENT OF PHARMACY FACULTY OF HEALTH SCIENCE UNIVERSITY OF DARUSSALAM GONTOR PONOROGO 2024

VALIDITY SHEET THESIS EXAM

It is hereby stated that the thesis with the title:

COST EFFECTIVENESS ANALYSIS OF THE COMBINATION OF VALSARTAN-FUROSEMIDE AND AMLODIPINE-FUROSEMIDE ANTIHYPERTENSION IN HYPERTENSION PATIENTS WITH HEART FAILURE COMPLICATIONS AT Dr. MOEWARDI HOSPITAL SURAKARTA

Writen by:

Helida Haning Taqia Alfiani 422021718037

Has been tested and approved & before the Thesis Examiner Board

On:.....

Examiner Board:

Mentor 1

apt. Amal Fadholah, S.Si., M.Si NIDN. 0721118402

Mentor 2

apt. Nadia Iha Fatihah, M.Clin.Pharm NIDN. 0714059105

Examiner 1

Mahmud Carica Dewi, M.Pharm

NIY. 210867

Approved by,

Head of Pharmacy Study Program

apt. Nadia Iha Fatihah, M.Clin.Pharm. NIDN. 0714059105

STATEMENT OF RESEARCH ORIGINALITY

I hereby,

: Helida Haning Taqia Alfiani Name

NIM : 422021718037 Faculty : Health Sciences Study Program : Pharmacy

Research Title : Cost Effectiveness Analysis of the Combination of Valsartan-

Furosemide and Amlodipine-Furosemide Antihypertension in Hypertension Patients With Heart Failure Complications at Dr.

Moewardi Hospital Surakarta.

I sincerely declare that the research compiled in this thesis is originally my own work and does not belong to other researchers to different degrees. Furthermore, this thesis has not been previously published, except for some parts with original references.

If in the future it is found that this work is plagiarism, I am ready to be given administrative and academic sanctions.

Ngawi, October 25th, 2024

Researcher



Helida Haning Taqia Alfiani

NIM 422021718037

ACKNOWLEDGEMENT

All praise is due to Allah Subhanahu wa Ta'ala, who has bestowed His mercy, guidance, and blessings, enabling the author to complete this thesis titled "COST-EFFECTIVENESS ANALYSIS OF THE ANTIHYPERTENSION COMBINATION OF VALSARTAN-FUROSEMIDE AND AMLODIPINE-FUROSEMIDE IN HYPERTENSION PATIENTS WITH HEART FAILURE AT DR. MOEWARDI HOSPITAL SURAKARTA." May peace and blessings always be upon the Prophet Muhammad Shallallahu 'alaihi wa sallam, along with his family, companions, and all those who follow his footsteps until the Day of Judgment.

The preparation of this thesis is a requirement for completing studies in the Undergraduate Program (S1) at the Faculty of Health Sciences, Darussalam Gontor University. It is undeniable that this thesis would not have been completed without the assistance, support, and guidance of various individuals. Therefore, with all humility, the author wishes to express the deepest gratitude to:

- Al-Ustadz Prof. Dr. Hamid Fahmy Zarkasyi, M.A., M.Phil., as the Rector of Darussalam Gontor University; Dr. Abdul Hafidz Zaid, M.A., as Vice Rector I of Darussalam Gontor University; Dr. Setiawan bin Lahuri, M.A., as Vice Rector II of Darussalam Gontor University; and Dr. Khoirul Umam, M.Ec., as Vice Rector III of Darussalam Gontor University.
- 2. Al-Ustadz apt. Amal Fadholah, S.Si., M.Si., as the Dean of the Faculty of Health Sciences at Darussalam Gontor University and the Primary Supervisor, for his availability, time, and guidance, which greatly assisted the author in completing this thesis.
- 3. Al-Ustadzah apt. Nadia Iha Fatihah, M.Clin.Pharm., as the Head of the Pharmacy Program at Darussalam Gontor University and Second Supervisor, for her invaluable input, suggestions, and direction throughout the thesis preparation process.
- 4. Al-Ustadzah Mahmud Carica, M.Pharm., as the Examiner, for dedicating time to assess the author's work and providing feedback to perfect this thesis.

- 5. All lecturers and staff of the Faculty of Health Sciences, especially the Pharmacy Program at Darussalam Gontor University, for the knowledge and support provided throughout study.
- 6. The Pharmacy Department, Administration Section, as well as the Education and Research Department of Dr. Moewardi General Hospital, Surakarta, for their assistance and cooperation during the research process.
- 7. My father, Hary Sulaksana, my mother, Lestariningsih, and my extended family, have tirelessly given their prayers, sacrifices, love, moral and material support, and motivation to complete this thesis.
- 8. Friends who have offered prayers, moral support, and assistance throughout the thesis writing process.
- 9. Fellow pharmacy students of the 2021 class who encouraged the thesis preparation.

The author realizes that this thesis is far from perfect due to limitations in knowledge and ability. Therefore, constructive criticism and suggestions are warmly welcomed to enhance this work in the future. May this thesis benefit readers, contribute to the advancement of knowledge, especially in the field of pharmacy, and become a lasting act of charity that benefits both in this world and the hereafter. Amin.

