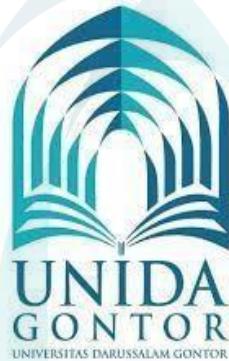


THESIS

**EVALUATION OF ANTIHYPERTENSIVE DRUG USE IN PATIENTS WITH
CHRONIC RENAL FAILURE UNDERGOING HEMODIALYSIS AT RSUD DR.**

MOEWARDI SOLO IN 2022-2023



Compiled by:

**Najiya El-Muna
NIM 412020718035**

PHARMACY STUDY PROGRAM

FACULTY OF HEALTH SCIENCES

UNIVERSITY OF DARUSSALAM GONTOR

PONOROGO

2024

**APPROVAL SHEET
THESIS DEFENCE**

It is hereby stated that the thesis with the title :

**EVALUATION OF THE USE OF ANTIHYPERTENSIVE DRUGS IN
PATIENTS WITH CHRONIC RENAL FAILURE UNDERGOING
HEMODIALYSIS AT RSUD DR. MOEWARDI SOLO YEARS 2022-2023**

Written by:

**Najiya El-Muna
412020718035**

It has been reviewed and recommended to meet scientific standards, in terms of both scope and quality.

Mentor 1

apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm
NIDN/NIY. 0714059105

Mentor 2

apt. Satwika Budi Sawitri, S.Farm, M.Farm
NIDN/NIY. 0721118402

Head of Pharmacy Study Program

apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm.
NIDN/NIY. 0714059105

**UNIDA
GONTOR**
UNIVERSITAS DARUSSALAM GONTOR

VALIDITY SHEET

It is hereby stated that the thesis with the title :

**EVALUATION OF THE USE OF ANTIHYPERTENSIVE DRUGS IN
PATIENTS WITH CHRONIC RENAL FAILURE UNDERGOING
HEMODIALYSIS AT RSUD DR. MOEWARDI SOLO YEARS 2022-2023**

Written by:

**Najiya El-Muna
412020718035**

Has been tested and approved & before the Thesis Examiner Board

On :

Examiner Board :

Mentor 1

apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm
NIDN/NIY. 0714059105



Mentor 2

apt. Satwika Budi Sawitri, S.Farm, M.Farm
NIDN/NIY. 0721118402

Examiner 1

apt. Amal Fadholah, S.Si., M.Si
NIDN/NIY. 0510017002

Approved by,

Head of Pharmacy Study Program



apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm.
NIDN/NIY. 0714059105

**LEMBAR PENGESAHAN
UJIAN SKRIPSI**

**EVALUASI PENGGUNAAN OBAT ANTIHIPERTENSI PADA PASIEN
GAGAL GINJAL KRONIK YANG MENJALANI HEMODIALISA DI
RSUD DR. MOEWARDI SOLO TAHUN 2022-2023**

Oleh:

Najiya El-Muna
412020718035

Telah diuji dan disahkan dihadapan
Dewan Pengaji Skripsi

Pada hari: , Tanggal:

Dewan Pengaji

Pembimbing 1

apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm
NIDN/NIY. 0714059105

Pembimbing 2

apt. Satwika Budi Sawitri, S.Farm, M.Farm
NIDN/NIY. 0721118402

Pengaji 1

apt. Amal Fadholah, S.Si., M.Si
NIDN/NIY. 0510017002

*Mengetahui,
Ketua Program Studi Farmasi*

apt. Nadia Iha Fatihah, S.Farm., M.Clin.Pharm.
NIDN/NIY. 0714059105

UNIVERSITAS DARUSSALAM GONTOR

SURAT PERNYATAAN PENYIMPANAN RAHASIA REKAM MEDIS

Dengan hormat,

Saya yang bertanda tangan dibawah ini, mahasiswa Program Studi Farmasi, Fakultas Ilmu Kesehatan, Universitas Darussalam Gontor.

Nama : Najiya El-Muna

NIM : 412020718035

Dalam rangka pelaksanaan penelitian tugas akhir (skripsi) dengan judul "**Evaluasi Penggunaan Obat Antihipertensi Pada Pasien Gagal Ginjal kronik Yang Menjalani Hemodialisa di RSUD DR. Moewardi**". Perlu dilakukan pengumpulan data penelitian berupa data rekam medis pasien Rumah Sakit Umum Daerah DR. Morwardi yang memenuhi kriteria.

Saya menyatakan bahwa saya berjanji dengan sungguh akan menjaga kerahasiaan data pasien sebaik baiknya dengan ketentuan yang tertulis dalam PERATURAN MENTERI KESEHATAN REPUBLIK INDONESIA NOMOR 269/MENKES/PER/III/2008 TENTANG REKAM MEDIS dan akan mempergunakan data yang diperoleh dengan bijak

Demikian pernyataan ini saya buat dengan sesungguhnya

Surakarta, 20 November 2023

Peneliti



Najiya El-Muna

NIM : 412020718035

UNIVERSITAS DARUSSALAM GONTOR

PERNYATAAN KEASLIAN PENELITIAN

Dengan ini saya,

Name : Najiya El-Muna
NIM : 412020718035
Faculty : Fakultas Ilmu Kesehatan
Study Program : Farmasi
Thesis Title : Evaluasi Penggunaan Obat Antihipertensi Pada Pasien Dengan Gagal Ginjal Kronis Yang Menjalani Hemodialisa di RSUD Dr. Moewardi Solo Tahun 2022-2023

Saya dengan tulus menyatakan bahwa penelitian yang tersusun dalam skripsi ini aslinya adalah karya saya sendiri dan bukan milik peneliti lain untuk derajat yang berbeda. Lebih lanjut, skripsi ini tidak pernah diterbitkan sebelumnya, kecuali beberapa bagian dengan referensi aslinya.

Apabila kemudian hari ditemukan bahwa karya ini adalah plagian, saya siap diberikan sanksi secara administrasi dan akademis.

Ponorogo, 8 Desember 2024
Peneliti,



Najiya El-Muna
NIM. 412020718035

UNIDA
GONTOR
UNIVERSITAS DARUSSALAM GONTOR



RUMAH JURNAL
UNIVERSITAS DARUSSALAM GONTOR

Sertifikat
Bebas Plagiasi

Sertifikat ini diberikan kepada :

Najiba El-Muna

Judul Skripsi:

Evaluation Of Antihypertensive Drug Use In Patients
With Chronic Renal Failure Undergoing Hemodialysis

At Rsud Dr. Moewardi Solo In 2022-2023

Telah dideteksi tingkat plagiasinya dengan TURNITIN
dan dinyatakan BEBAS PLAGIASI dengan kriteria
toleransi $\leq 25\%$ pada tanggal 23 November 2024

Ponorogo, 23 November 2024



Al-Ustadz Muhammad Taqiyuddin, M.Ag

ABSTRACT

EVALUATION OF ANTIHYPERTENSIVE DRUG USE IN PATIENTS WITH CHRONIC RENAL FAILURE UNDERGOING HEMODIALYSIS AT RSUD DR. MOEWARDI SOLO IN 2022-2023

Najiyah El-Muna

412020718035

Loss of kidney function that lasts for months to years is known as chronic kidney failure, and is characterized by parenchymal fibrosis, which gradually replaces the normal form of the kidneys. The purpose of antihypertensive use is to control blood pressure to slow the progression of kidney failure and prevent the onset of new complications. High blood pressure in patients with chronic kidney failure can accelerate the progression of kidney failure itself and give rise to new complications. This study aims to determine the use of antihypertensive drugs in patients with chronic kidney failure undergoing hemodialysis and to assess the use of antihypertensive drugs in patients with chronic kidney failure at Dr. Moewardi Solo Hospital in 2022–2023. The medical records of chronic kidney failure patients at the Dr. Moewardi Solo Hospital Installation in 2022–2023 are the subject of this retrospective descriptive observational research, which uses a purposive sampling approach. The sample in this study is 33 patients who meet the inclusion criteria. Based on information collected from 33 patients, 30% of them are female and 70% are male. With a result of 22%, anemia is the most common comorbidity in chronic kidney failure patients undergoing hemodialysis. With the number of patients undergoing hemodialysis once a week at 53% and 2 times a week at 36%, the frequency of hemodialysis varied across all patient samples. In patients with chronic renal failure, furosemide is the most effective antihypertensive drug in lowering blood pressure when used alone (12%), while candesartan and furosemide together (25%) are the most effective drugs when used in combination. Overall, it can be said that Dr. Moewardi Solo Hospital's assessment of the use of antihypertensive drugs in chronic kidney failure patients undergoing hemodialysis throughout 2022–2023 has been satisfactory.

Keywords: Antihypertensive, Kidney Failure, Hemodialysis, Complications

UNIDA
GONTOR
UNIVERSITAS DARUSSALAM GONTOR

ABSTRAK

EVALUASI PENGGUNAAN OBAT ANTHIPERTENSI PADA PASIEN GAGAL GINJAL KRONIK YANG MENJALANI HEMODIALISA DI RSUD DR. MOEWARDI SOLO PADA TAHUN 2022-2023

Najiyah El-Muna

412020718035

Gagal ginjal kronik didefinisikan sebagai hilangnya kegunaan fungsi ginjal yang terjadi selama beberapa bulan hingga tahun dan ditandai dengan penggantian bentuk ginjal normal secara bertahap dengan fibrosis parenkim. Tekanan darah tinggi yang terjadi pada pasien dengan gagal ginjal kronik dapat mempercepat perkembangan penyakit gagal ginjal itu sendiri dan dapat juga menimbulkan komplikasi baru, sehingga tujuan dari penggunaan antihipertensi adalah untuk mengontrol tekanan sehingga perkembangan penyakit gagal ginjal bisa diperlambat dan mencegah timbulnya penyakit komplikasi baru. Tujuan dari penelitian ini adalah mengetahui penggunaan terapi antihipertensi yang diberikan pada pasien gagal ginjal kronik yang menjalani hemodialisa dan mengetahui evaluasi terapi pada penggunaan terapi antihipertensi pada pasien gagal ginjal kronik di RSUD Dr. Moewardi tahun 2022-2023. Penelitian ini merupakan penelitian observasional deskriptif secara retrospektif menggunakan metode teknik *purposive sampling* terhadap rekam medik pasien gagal ginjal kronik di instalasi RSUD Dr. Moewardi Solo periode 2022 – 2023. Sampel pada penelitian ini sebanyak 33 pasien yang sesuai dengan kriteria inklusi. Berdasarkan data yang diperoleh dari total 33 pasien, 70% adalah laki-laki dan 30% adalah perempuan. Komorbiditas tertinggi pada pasien gagal ginjal kronik yang menjalani hemodialisis adalah anemia dengan hasil 22%. Dari sampel pasien frekuensi hemodialisis bervariasi, dengan 53% pasien menjalani hemodialisis sekali seminggu dan 36% dua kali seminggu. Efektivitas penggunaan terapi antihipertensi pada pasien gagal ginjal kronik yang menunjukkan angka tertinggi dalam menurunkan tekanan darah dalam terapi monoterapi adalah furosemide dengan persentase sebesar 12%, sedangkan untuk terapi kombinasi adalah candesartan dan furosemide dengan persentase sebesar 25%. Secara keseluruhan dapat disimpulkan bahwa evaluasi penggunaan obat antihipertensi pada pasien gagal ginjal kronik yang menjalani hemodialisa di RSUD Dr. Moewardi Solo periode 2022- 2023 bisa dikategorikan baik.

Kata Kunci : Antihipertensi, Gagal Ginjal, Hemodialisa, Komplikasi

GONTOR
UNIVERSITAS DARUSSALAM GONTOR

ACKNOWLEDGMENT

Assalamualaikum Warahmatullahi Wabarakatuh

In the name of Allah, the Most Gracious, the Most Merciful. Praise be to Allah, the Almighty God, because, by His will and abundance of mercy, the author was able to complete the final assignment of the thesis entitled “Evaluation of The Use of Antihypertensive Drugs in Patients With Chronic Renal Failure Undergoing Hemodialysis at RSUD Dr. Moewardi Solo Years 2022-2023“ done well and on time. The author realizes that completing this thesis cannot be separated from various parties' help, guidance, and direction. Therefore, the author would like to thank:

1. Al-Ustadz Prof. Dr Hamid Fahmi Zarkasyi, M.A., M.Phil., Rector of University Darussalam Gontor. Dr. Abdul Hafidz Zaid, M.A., vice Rector I of University Darussalam Gontor. Dr. Setiawan Bin Lahuri, M.A., vice Rector II of University Darussalam Gontor. Dr. Khoirul Imam, M.Ec., vice Rector III of University Darussalam Gontor.
2. Al-Ustadz apt. Amal Fadholah, S.Si., M.Si, Dean of the Faculty of Health Science, and apt. Nadia Iha Fatihah, M.Clin.Pharm, Head of the Pharmacy Study Program at University Darussalam Gontor.
3. Al-Ustadzah apt. Nadia Iha Fatihah, S.Farm, M.Clin. Pharm as the primary supervisor and apt. Satwika Budi Sawitri, S.Farm, M.Farm as the secondary supervisor, for their knowledge, time, guidance, direction, and advice during the preparation of this thesis, allowing its successful completion.
4. All lecturers, laboratory staff, educators, and administrative staff of the Pharmacy Study Program who have shared their knowledge, provided guidance, and offered direction throughout the academic process.
6. My late father wanted his children to be successful but left us before I graduated, my mother was willing to fight desperately for her youngest daughter, and my two older brothers, along with their wives and children, who have given me support both physically and mentally.
7. To the Dr. Moewardi Regional General Hospital, who has permitted the researcher to complete the thesis,

8. My fellow students in the Pharmacy Study Program, Faculty of Health Science, University of Darussalam Gontor Class of 2020, along with friends from the Prominent Generation University of Darussalam Gontor who have provided help, prayers, and encouragement. To all parties who cannot be mentioned one by one.

The author acknowledges the remaining shortcomings and limitations in this thesis. Therefore, the author welcomes constructive criticism and suggestions from all parties to improve this thesis. It is hoped that this thesis will be beneficial and serve as an inspiration to readers. *Aamin Ya Rabbal Alamin.*

Mantingan, 25 December 2024

The Author,

Najiya El-Muna

**UNIDA
GONTOR**
UNIVERSITAS DARUSSALAM GONTOR