

## ATTACHMENT

### *Attachment 1 Explanation Sheet Before Respondent Consent*

#### **EXPLANATION SHEET BEFORE RESPONDENT'S APPROVAL**

##### **Research Title:**

The Relationship between Mobility and the Incidence of Urinary Tract Infections in Elderly Patients with Catheters in the Inpatient Ward of IHC Lavalette Hospital, Malang City.

##### **Summary of Research:**

My name is Alfi Ika Purwati, a student of the Applied Nursing Undergraduate Program, Malang, Health Polytechnic, Ministry of Health, Malang, will conduct a research to compile a final assignment or thesis entitled "The Relationship between Mobility and the Incidence of Urinary Tract Infections in the Elderly with Catheters in the Inpatient Room of IHC Lavalette Hospital, Malang City". This study aims to determine whether there is a relationship between elderly mobility and the incidence of urinary tract infections in the elderly with catheters in the Inpatient Room of IHC Lavalette Hospital, Malang City.

##### **Treatment:**

Researchers will ask for consent from respondents containing respondent characteristic data including name (initials only), age, gender, medical history, history of catheter installation, clinical symptoms, vital signs examination, and UTI clinical data.

##### **Benefit:**

The benefits obtained by respondents after participating in this study are that they can increase their knowledge and information about the relationship between mobility and the incidence of urinary tract infections in elderly people with catheters in the inpatient room of the IHC Lavalette Hospital in Malang City.

##### **Confidentiality:**

All data related to this study will be kept confidential. The data obtained are known only to the researcher and the respondents. The data obtained will be presented in the study while maintaining the confidentiality of identity and will only be used for the development of geriatric nursing science and will not be used for other purposes.

##### **Potential Hazards:**

There is no potential harm resulting from the involvement of respondents in this study, because this study is observational and invasive through filling out observation sheets and is not harmful to respondents.

##### **Right to Withdraw:**

Respondents' participation in this study is voluntary. Respondents have the right to withdraw at any time, without causing any consequences that may harm the respondents. If there are things that require explanation, you can contact the researcher:

Researcher Name : Alfi Ika Purwati

Phone/Mobile : 081335728495

Institution : Ministry of Health Polytechnic of Health, Malang

*Attachment 2 Information Sheet***INFORMATION SHEET**

Dear.

Dear Prospective Respondents

In place

With Respect, I, the undersigned, Student of the Health Polytechnic of the Ministry of Health, Malang, Nursing Department, Applied Nursing Undergraduate Study Program, Malang:

Name: Alfi Ika Purwati

NIM: P17211217145

Currently, I am working on a thesis as my final assignment. In this regard, I would like to ask for your willingness to be a respondent in a study on "The Relationship between Mobility and the Incidence of Urinary Tract Infections in Elderly Patients with Catheters in the Inpatient Room of IHC Lavalette Hospital, Malang City".

I will guarantee the confidentiality of the identity and results obtained. The results of this study are expected to be useful, therefore filling in this observation is in accordance with what you feel. Such answers will only be used for research purposes.

Thus is my request, I express my gratitude for your willingness and assistance.

Malang,.....2025

Researcher



**Alfi Ika Purwati**  
P17211217145

*Attachment 3 Informed Consent Form*

**INFORMED CONSENT SHEET**

I, the undersigned below:

Name (Initials) :

Age :

Hereby declare that I have understood the explanation of everything regarding the research entitled "The Relationship between Mobility and the Incidence of Urinary Tract Infections in Elderly People with Catheters in the Inpatient Room of IHC Lavalette Hospital, Malang City" and I am willing to be a respondent in this research without coercion and with full awareness from anyone.

Researchers,

Malang,.....2025



**Alfi Ika Purwati**  
**P17211217145**

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## Attachment 4 The Barthel Index

**THE BARTHEL INDEX**

Initial name :		
Date and time :		
<b>Activity : Score</b>		
<b>FEEDING</b>	0 = unable	
	5 = needs help cutting, spreading butter, etc., or requires modified diet	
	10 = independent	
<b>BATHING</b>	0 = dependent	
	5 = independent (or in shower)	
<b>GROOMING</b>	0 = needs to help with personal care	
	5 = independent face/hair/teeth/shaving (implements provided)	
<b>DRESSING</b>	0 = dependent	
	5 = needs help but can do about half unaided	
	10 = independent (including buttons, zips, laces, etc.)	
<b>BOWEL</b>	0 = incontinent (or needs to be given an enema)	
	5 = occasional accident	
	10 = continent	
<b>BLADDER</b>	0 = incontinent, or catheterized and unable to manage alone	
	5 = occasional accident	
	10 = continent	
<b>TOILET USE</b>	0 = dependent	
	5 = needs some help, but can do something alone	
	10 = independent (on and off, dressing, wiping)	
<b>TRANSFERS (BED TO CHAIR AND BACK)</b>	0 = unable, no sitting balance	
	5 = major help (one or two people, physical), can sit	
	10 = minor help (verbal or physical)	
	15 = independent	
<b>MOBILITY (ON LEVEL SURFACES)</b>	0 = immobile or < 50 yards	
	5 = wheelchair independent, including corners, > 50 yards	
	10 = walks with help of one person (verbal or physical) > 50 yards	
	15 = independent (but may use any aid; for example, stick) > 50 yards	
<b>STAIRS</b>	0 = unable	
	5 = needs help (verbal, physical, carrying aid)	
	10 = independent	
Total Score (0-100):		

<p>The Barthel ADL Index: Guidelines</p> <ol style="list-style-type: none"><li>1. The index should be used as a record of what a patient does, not as a record of what a patient could do.</li><li>2. The main aim is to establish a degree of independence from any help, physical or verbal, however minor and for whatever reason.</li><li>3. The need for supervision renders the patient not independent.</li><li>4. A patient's performance should be established using the best available evidence. Asking the patient, friends/relatives and nurses are the usual sources, but direct observation and common sense are also important. However direct testing is not needed.</li><li>5. Usually the patient's performance over the preceding 24-48 hours is important, but occasionally longer periods will be relevant.</li><li>6. Middle categories imply that the patient supplies over 50 per cent of the effort.</li><li>7. Use of aids to be independent is allowed.</li></ol>
<p>The Score of Barthel Index:</p> <ul style="list-style-type: none"><li>- Score 0-20: Total dependency</li><li>- Score 21-60: Heavy dependency</li><li>- Score 61-90: Moderate dependence</li><li>- Score 91-99: Mild dependence</li><li>- Score 100: Independent</li></ul>
<p>Mahoney FI, Barthel D. "Functional evaluation: the Barthel Index." Maryland State Med Journal 1965;14:56-61.</p>

## Attachment 5 Observation Sheet

**OBSERVATION SHEET***Modified from research according to Nafidatul Khoiroh, et al (2020).*

<b>Respondent Characteristics</b>		
Initials of Name:		
Age:		
Gender :		
<b>Health History</b>		
MRS Chief Complaint		
There are signs of infection before MRS		
<b>Catheter Insertion History Yes No</b>		
Reason for installing the device		
Installation Date		
Release Date		
Catheter Number	6, 8, 10, 11, 12, 14, 16, 18, 20, 22	
Types of Catheters Folley      Silicone	Length of Days to Install Equipment <4 Days    5-7 days    >10 days	
<b>Clinical Symptoms Felt</b>		
- Fever - Dysuria - Suprapubic pain	- Frequency of urination (.....) - Bradycardia - Cloudy or bloody urine	
<b>TTV Examination</b>		
TD :		
Body temperature:		
Pulse:		
Abdominal Examination:    Tenderness    Yes    No,    Distension    Yes    No		
<b>UL Laboratory Results</b>	<b>Date:</b>	<b>Urine Culture Results:</b>
Leukocytes:	Types of Microbes	
Erythrocytes:		
Diagnosis of :	Symptomatic UTI	Asymptomatic UTI

\*Circle the answer











## Attachment 6 Thesis Guidance Sheet



**THESIS GUIDANCE SHEET**  
**BACHELOR'S DEGREE PROGRAM IN APPLIED NURSING**  
**DEPARTMENT OF NURSING**  
**MINISTRY OF HEALTH, REPUBLIC OF INDONESIA HEALTH**  
**POLYTECHNIC OF MALANG**

Student Name : ALFI IKA PURWATI  
 NIM : P17211217145  
 Supervisor Name : Joko Wiyono, S.Kp., M.Kep., Sp.Kom  
 Thesis Title : The Relationship Between Mobility and Timing of Urinary Tract Infection Incidence in Elderly With Catheter in Inpatient Ward of IHC Lavalette Hospital, Malang City

NO	DATE	SUPERVISOR RECOMMENDATION	SIGNATURE	
			SUPERVISOR	STUDENT
1.	January, 3 2025	Title consultation, Relationship between Mobility Limitations and Risk of Urinary Tract Infection in the Elderly Using Urinary Catheters. - "Limitations" removed - "Risk" replaced with incidence. <b>Become:</b> The Relationship between Mobility and the Incidence of Urinary Tract Infection in Elderly Patients Using Urinary Catheters.		
2.	Januari, 6 2025	Guidance on Chapter 1: <ul style="list-style-type: none"> <li>Added the scale for Elderly with UTI (Urinary Tract Infection)</li> <li>Specifically referring to the location ACC Chapter 1</li> </ul>		
3.	January, 8 2025	Guidance on Chapter 2: <ul style="list-style-type: none"> <li>Added the SOP for Catheter Insertion</li> <li>Conceptual Framework refined</li> </ul> ACC Chapter 2		
4.	January, 14 2025	Approval of Research Study at IHC Lavalette Hospital, Malang City		
5.	January, 16 2025	Consultation on Chapter 3: <ul style="list-style-type: none"> <li>Conceptual Framework refined</li> </ul>		
6.	January, 17 2025	ACC Seminar Thesis Proposal		

7.	May, 22 2025	Improve Univariate Data Processing and Test Results The respondent data should be specifically selected, including thorough examination of Urinalysis (UL) and Urine Culture.		
8.	May, 23 2025	Added UL results and urine culture in the operational definition, and added theory chapter 2 to assess UTI based on leukocyte and erythrocyte results.		
9.	May, 26 2025	Revise the Catheter Duration Category Change the catheter duration category to reflect the timing of urinary tract infection (UTI) occurrence. Group the data based on existing theoretical frameworks.		
10.	May, 27 2025	Revise the Discussion Section The discussion must include facts, relevant theories, and the author's opinions.		
11.	May, 28 2025	Fixing chapter 5 recommendations ACC thesis result seminar		

Knowing,  
Head of the Bachelor of Applied Nursing Study  
Program Malang



Dr. Arief Bachtiar, S.Kep., Ns., M.Kep.  
NIP. 197407281998031002

Malang, May, 28 2015  
Supervisor,





Joko Wiyono, S.Kp., M.Kep., Sp.Kom  
NIP. 196909021992031002

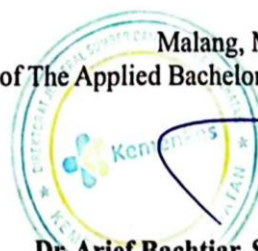
## Attachment 7 Thesis Proposal Revision Sheet

**EXAM REVISION SHEET**  
**BACHELOR'S DEGREE PROGRAM IN APPLIED NURSING**  
**DEPARTMENT OF NURSING**  
**MINISTRY OF HEALTH, REPUBLIC OF INDONESIA**  
**HEALTH POLYTECHNIC OF MALANG**

Student Name : Alfi Ika Purwati  
 NIM : P17211217145  
 Examiner Name : Dr. Arief Bachtiar, S.Kep.,Ns., M.Kep  
 Tester : Chief Examiner  
 Thesis Title : Relationship Between Mobility and Urinary Tract Infection  
 Incidence in Elderly with Catheters  
 Exam Date : January 21, 2025

NO	CHAPTER/ PAGE	EXAMINER REVISION DETAILS	NOTE	SIGNATURE
1.	CHAPTER 1	- The problem statement in the background is clarified again	Fixed	
2.	CHAPTER 3	- The data collection method was replaced with secondary data to find out the results of the urine culture lab.	Has been fixed and adjusted	




Malang, March 26, 2025  
 Head of The Applied Bachelor's Nursing Study Program



  
**Dr. Arief Bachtiar, S.Kep., Ns., M.Kep.**  
 NIP. 197407281998031002

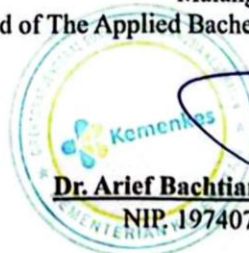
**EXAM REVISION SHEET**  
**BACHELOR'S DEGREE PROGRAM IN APPLIED NURSING**  
**DEPARTMENT OF NURSING**  
**MINISTRY OF HEALTH, REPUBLIC OF INDONESIA**  
**HEALTH POLYTECHNIC OF MALANG**

Student Name : Alfi Ika Purwati  
 NIM : P17211217145  
 Examiner Name : Dr. Tri Anjaswarni, S.Kp., M.Kep  
 Tester : Examiner 1  
 Thesis Title : Relationship Between Mobility and Urinary Tract Infection  
 Incidence in Elderly with Catheters  
 Exam Date : January 21, 2025

NO	CHAPTER/ PAGE	EXAMINER REVISION DETAILS	NOTE	SIGNATURE
1.	FOREWORD	- Parents' words of gratitude are placed above (number 1)	Fixed	
2.	CHAPTER 2	- Improvement in physical changes in the elderly - Improvement in clinical manifestations of UTI - Improvement in physical mobility changes in elderly with UTI (Focus on Urinary Elimination) - Hypothesis H0 is eliminated (hypothesis that the researcher does not believe)	It has been fixed and the change point in the elderly has been linked to the changes when the elderly experience UTI. Then, the improvement in clinical manifestations has been reviewed again by the author. And, the improvement of urine elimination in elderly mobility	
3.	CHAPTER 3	- Number of research samples - The data collection procedure is clarified again until it reaches the research objectives.	The research sample and data collection procedures have been improved.	

Malang, March 26, 2025

Head of The Applied Bachelor's Nursing Study Program








**Dr. Arief Bachtiar, S.Kep., Ns., M.Kep.**  
 NIP. 197407281998031002

**EXAM REVISION SHEET**  
**BACHELOR'S DEGREE PROGRAM IN APPLIED NURSING**  
**DEPARTMENT OF NURSING**  
**MINISTRY OF HEALTH, REPUBLIC OF INDONESIA**  
**HEALTH POLYTECHNIC OF MALANG**

Student Name : Alfi Ika Purwati  
 NIM : P17211217145  
 Examiner Name : Joko Wiyono, S.Kep., M.Kep., Sp.Kom  
 Tester : Examiner Member 2/Supervisor  
 Thesis Title : Relationship Between Mobility and Urinary Tract Infection  
 Incidence in Elderly with Catheters  
 Exam Date : January 21, 2025

NO	CHAPTER/ PAGE	EXAMINER REVISION DETAILS	NOTE.	SIGNATURE
1.	TITLE	- Focus on Urinary Tract Infection Events not Risks	Fixed	
2.	CHAPTER 1	- Background plus previous research - The specific purpose is justified by the words	Improved writing and added previous research	
3.	CHAPTER 3	- Sample Population is fixed - Spearman rank calculation formula improved - Operational definitions are adjusted numerically or ordinally	It has been fixed and adjusted	

Malang, March 26, 2025  
 Head of The Applied Bachelor's Nursing Study Program

  
**Dr. Arief Bachtiar, S.Kep., Ns., M.Kep.**  
 NIP. 197407281998031002

*Attachment 8 Preliminary Study Submission Letter*



**Kementerian Kesehatan**  
**Poltekkes Malang**

📍 Jalan Besar Ijen 77C  
Malang, Jawa Timur 65112  
☎️ (0341) 566075  
🌐 <https://poltekkes-malang.ac.id>

Nomor : PP.06.02/F.XXI.15/1768/2024 19 Desember 2024  
Perihal : Permohonan Ijin Studi Pendahuluan untuk Penyusunan Proposal Skripsi Mahasiswa Jurusan Keperawatan Poltekkes Kemenkes Malang

Kepada Yth:  
Direktur RS IHC Lavalette Malang  
Jl. W.R. Supratman No. 10, Rampil Celaket, Kec. Klojen  
di –

Tempat

Bersama ini kami mohon bantuan demi terlaksananya kegiatan Studi Pendahuluan untuk bahan penyusunan Proposal Skripsi bagi Mahasiswa Sarjana Terapan Keperawatan Malang Jurusan Keperawatan Poltekkes Kemenkes Malang di wilayah kerja RS IHC Lavalette Malang.

Adapun mahasiswa yang akan melaksanakan Studi Pendahuluan adalah:

Nama : Alfi Ika Purwati  
NIM/Semester : P17211217145 / VII  
Asal Program Studi : Sarjana Terapan Keperawatan Malang  
Judul Skripsi : Hubungan Antara Mobilitas dan Kejadian Infeksi Saluran Kemih (ISK) pada Lansia yang Terpasang Kateter  
No. HP : 081335728495

Demikian atas perhatian dan kerjasamanya disampaikan terima kasih.

Ketua Jurusan Keperawatan Poltekkes Kemenkes  
malang,



Dr. Erlina Suci Astuti, S.Kep, Ns, M.Kep

Kementerian Kesehatan tidak menerima suap dan/atau gratifikasi dalam bentuk apapun. Jika terdapat potensi suap atau gratifikasi silahkan laporkan melalui HALO KEMENKES 1500567 dan <https://wbs.kemkes.go.id>. Untuk verifikasi keaslian tanda tangan elektronik, silahkan unggah dokumen pada laman <https://tte.kominfo.go.id/verifyPDF>.



Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh Balai Besar Sertifikasi Elektronik (BSrE), Badan Siber dan Sandi Negara

## Attachment 9 Ethical Approval



### Kementerian Kesehatan

Direktorat Jenderal  
Sumber Daya Manusia Kesehatan  
Politeknik Kesehatan Malang  
Komisi Etik Penelitian Kesehatan  
Jalan Besar Ijen Nomor 77 C Malang  
(0341) 566075  
komisietik@poltekkes-malang.ac.id

**KETERANGAN LAYAK ETIK**  
*DESCRIPTION OF ETHICAL APPROVAL*  
"ETHICAL APPROVAL"

No.DP.04.03/F.XXI.30/00382/2025

Protokol penelitian versi 2 yang diusulkan oleh :  
*The research protocol proposed by*

Peneliti utama : Alfi Ika Purwati  
*Principal In Investigator*

Nama Institusi : Poltekkes Malang  
*Name of the Institution*

Dengan judul:  
*Title*

**"Hubungan Antara Mobilitas dan Waktu Kejadian Infeksi Saluran Kemih Pada Lansia yang Terpasang Kateter di Ruang Rawat Inap RS IHC Lavalette Kota Malang"**

*"The Relationship Between Mobility and Timing of Urinary Tract Infection Incidence in Elderly With Catheter in Inpatient Ward of IHC Lavalette Hospital, Malang City"*

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

*Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.*

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 26 Mei 2025 sampai dengan tanggal 26 Mei 2026.

*This declaration of ethics applies during the period May 26, 2025 until May 26, 2026.*



May 26, 2025  
Chairperson,



Dr. Susi Milwati, S.Kp., M.Pd.

*Attachment 10 Data Collection Permit letter*



**Kementerian Kesehatan**  
**Direktorat Jenderal**  
**Sumber Daya Manusia Kesehatan**  
 Politeknik Kesehatan Malang  
 Jalan Besar Ijen 77C  
 Malang, Jawa Timur 65112  
 (0341) 566075  
<https://poltekkes-malang.ac.id>

Nomor : PP.06.02/F.XXI.15/579/2025 16 April 2025  
 Perihal : Permohonan Ijin Pengambilan Data untuk Penyusunan Skripsi Mahasiswa  
 Jurusan Keperawatan Poltekkes Kemenkes Malang

Kepada Yth:  
 Direktur RS IHC Lavalette Malang  
 Jl. W.R. Supratman No. 10, Rampal Celaket, Kec. Klojen  
 di –  
Tempat

Bersama ini kami mohon bantuan demi terlaksananya kegiatan Pengambilan Data untuk bahan penyusunan Skripsi bagi Mahasiswa Jurusan Keperawatan Poltekkes Kemenkes Malang di wilayah kerja RS IHC Lavalette Malang. Pengambilan data yang dimaksud akan dilaksanakan mulai tanggal 28 April – 11 Mei 2025.

Adapun mahasiswa yang akan melaksanakan Pengambilan Data adalah:

Nama : Alfi Ika Purwati  
 NIM/Semester : P17211217145 / VIII  
 Asal Program Studi : Sarjana Terapan Keperawatan Malang  
 Judul Skripsi : Hubungan Antara Mobilitas & Kejadian Infeksi Saluran Kemih Pada Lansia  
 Yang Terpasang Kateter di Ruang Rawat Inap RS IHC Lavalette Kota  
 Malang  
 No. HP : 081335728495

Demikian atas perhatian dan kerjasamanya disampaikan terima kasih.

Ketua Jurusan Keperawatan Poltekkes Kemenkes  
 malang,



Dr. Erlina Suci Astuti, S.Kep, Ns, M.Kep

Kementerian Kesehatan tidak menerima suap dan/atau gratifikasi dalam bentuk apapun. Jika terdapat potensi suap atau gratifikasi silahkan laporkan melalui HALO KEMENKES 1500567 dan <https://wbs.kemkes.go.id>. Untuk verifikasi keaslian tanda tangan elektronik, silahkan unggah dokumen pada laman <https://tte.kominfo.go.id/verifyPDF>.



Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh Balai Besar Sertifikasi Elektronik (BSrE), Badan Siber dan Sandi Negara

*Attachment 11 Reply Letter for Data Collection Permit*



Jl. WR. Supratman No. 10 Kota Malang  
Jawa Timur Indonesia 65111  
E : [rslavalette.nsm@gmail.com](mailto:rslavalette.nsm@gmail.com)  
T : +62341-482612  
F : +62341-470804  
[www.nusamed.co.id](http://www.nusamed.co.id)

Malang, 30 April 2025

Nomor Surat : DA01-INSIP-BB/P-B/25-04-30/442  
Perihal : Persetujuan Penelitian  
Lampiran : -

Kepada Yth,  
**Ketua**  
**Prodi Sarjana Terapan Keperawatan**  
**Jurusan Keperawatan**  
**Poltekkes Kemenkes Malang**  
Jl. Besar Ijen No. 77 C Malang

Menindaklanjuti Surat dari Ketua Jurusan Keperawatan Poltekkes Kemenkes Malang nomor PP.06.02/F.XXI.15/579/2025 tentang Surat Permohonan Ijin Penelitian tanggal 16 April 2025. Bersama ini kami sampaikan bahwa pada dasarnya kami menyetujui permohonan tersebut yang dilakukan oleh Mahasiswa Poltekkes Kemenkes Malang, sebagai berikut :

Nama : Alfi Ika Purwati  
NIM/Semester: P17211217145 / VIII  
Asal Prodi : Sarjanan Terapan Keperawatan Malang  
Judul : Hubungan Antara Mobilitas & Kejadian Infeksi Saluran Kemih Pada Lansia Yang Terpasang Kateter di Ruang Rawat Inap RS IHC Lavalette Kota Malang.

Adapun pengambilan data dapat dilaksanakan dengan ketentuan, sebagai berikut :

1. Tidak diperkenankan mengambil data keuangan / kinerja Rumah Sakit Lavalette;
2. Setelah selesai pengambilan data, diwajibkan menyerahkan laporan hasil penelitian kepada Rumah Sakit Lavalette, paling lambat 1 (satu) bulan setelah selesai;
3. Membayar biaya administrasi untuk Penelitian sebesar Rp. 250.000,- (duaratus lima puluh ribu rupiah);
4. Sanggup mematuhi tata tertib yang berlaku di Rumah Sakit Lavalette, apabila terjadi indisipliner maka mahasiswa dapat dikembalikan ke Kampus dan tidak diperkenankan melanjutkan pengambilan data penelitian;
5. Wajib menerapkan protokol kesehatan.

Demikian atas perhatian dan kerjasamanya kami sampaikan terima kasih.

**PT NUSANTARA SEBELAS MEDIKA**  
**RUMAH SAKIT LAVALETTE**



**drg. INDRA GUNAWAN, M.Kes., OHIA**  
Direktur Rumah Sakit

PT Nusantara Sebelas Medika tidak menerima suap dan/atau gratifikasi dalam bentuk apapun. Jika terdapat potensi suap/gratifikasi/bentuk pelanggaran lainnya silahkan laporkan melalui **Media WBS PT Nusantara Sebelas Medika**  
No. Telepon (Whatsapp) :081138000556, Email : [wbs@nusamed.go.id](mailto:wbs@nusamed.go.id)

*Attachment 12 Letter Has Been Completed Data Collection*



Jl. WR. Supratman No. 10 Kota Malang  
Jawa Timur Indonesia 65111  
E : [rslavalette.nsm@gmail.com](mailto:rslavalette.nsm@gmail.com)  
T : +62341-482612  
F : +62341-470804  
[www.nusamed.co.id](http://www.nusamed.co.id)

Malang, 20 Mei 2025

Nomor Surat : DA01-INSIP-BB/P-B/25-05-20/461  
Perihal : Persetujuan Penelitian  
Lampiran : -

Kepada Yth,  
**Ketua**  
**Prodi Sarjana Terapan Keperawatan**  
**Jurusan Keperawatan**  
**Poltekkes Kemenkes Malang**  
Jl. Besar Ijen No. 77 C Malang

Menindaklanjuti Surat dari Ketua Jurusan Keperawatan Poltekkes Kemenkes Malang nomor PP.06.02/F.XXI.15/579/2025 tentang Surat Permohonan Ijin Penelitian tanggal 16 April 2025 dan meneruskan surat dari Direktur RS Lavalette nomor DA01-INSIP-BB/P-B/25-04-30/442 perihal Persetujuan Penelitian tanggal 30 April 2025. Bersama ini kami sampaikan bahwa Mahasiswa Poltekkes Kemenkes Malang tersebut telah melakukan pengambilan data penelitian pada 5 s.d 11 Mei 2025, sebagai berikut :

Nama : Alfi Ika Purwati  
NIM/Semester: P17211217145 / VIII  
Asal Prodi : Sarjanan Terapan Keperawatan Malang  
Judul : Hubungan Antara Mobilitas & Kejadian Infeksi Saluran Kemih Pada Lansia Yang Terpasang Kateter di Ruang Rawat Inap RS IHC Lavalette Kota Malang.

Demikian atas perhatian dan kerjasamanya kami sampaikan terima kasih.

**PT NUSANTARA SEBELAS MEDIKA**  
**RUMAH SAKIT LAVALETTE**



**drg. INDRA GUNAWAN, M.Kes., OHIA**  
Direktur Rumah Sakit

PT Nusantara Sebelas Medika tidak menerima suap dan/atau gratifikasi dalam bentuk apapun. Jika terdapat potensi suap/gratifikasi/bentuk pelanggaran lainnya silahkan laporkan melalui **Media WBS PT Nusantara Sebelas Medika**  
No. Telepon (Whatsapp) :081138000556, Email : [wbs@nusamed.go.id](mailto:wbs@nusamed.go.id)

Attachment 13 Data Tabulation

No	Age (Years)	Gender	Score Mobility (Barthel Index)	History medic	Time's UTI	Clinical Symtomp	Eritrosit	Leukosit	Urine Culture	Diagnose UTI	ISK Score
3	68	P	40	CVA	15	Hematuria, demam 2 hari	175-200/LPB	5-8/LPB	Positif (E. coli)	ISK Asimtomatik	2
4	80	P	30	CVA	20	Hematuria frekuensi 2x sehari (dalam 1 hari)	160-170/LPB	4-6/LPB	Positif (Proteus sp.)	ISK Simptomatik	2
7	69	L	20	CVA	18	Hematuria frekuensi 2x sehari (dalam 1 hari)	0,8-1/LPB	1-3/LPB	Positif (E. coli)	Tanpa Infeksi	2
16	70	P	56	CVA	12	Urin keruh pekat 2x, hematuri 1x , demam 1 hari	180-210/LPB	5-8/LPB	Positif (E. coli)	ISK Asimtomatik	2
2	75	L	60	CVA	10	Urin keruh, demam -	30-45/LPB	5-6/LPB	-	ISK Asimtomatik	1
6	77	P	55	CVA	12	Demam 1 hari	30-45/LPB	5-6/LPB	-	ISK Asimtomatik	1

10	78	P	35	Post Op Batu Kemih	4	Nyeri pada luka op. drainase keruh	36-47/LPB	8-9/LPB	-	ISK Simptomatik	1
20	68	L	90	Post Op Prostat	3	Nyeri pada luka op. drainase keruh	0,8-1/LPB	2-4/LPB	-	Tanpa Infeksi	1
24	63	L	57	CVA	12	Urin keruh pekat, hematuri -, demam 1 hari	45-47/LPB	5-6/LPB	-	ISK Asimtomatik	1
31	63	L	95	Post Op Batu ginjal	4	Nyeri pada luka op. drainase keruh	60-62/LPB	5-6/LPB	-	Tanpa Infeksi	1
35	72	P	90	Post Op TURP	3	Nyeri pada luka op. drainase keruh	45-75/LPB	5-6/LPB	-	Tanpa Infeksi	1
41	74	P	87	DM type II	6	Urin keruh pekat, hematuri -, demam 1 hari	32-45/LPB	5-6/LPB	-	Tanpa Infeksi	1
43	66	P	30	CVA	9	Demam, Urun keruh pekat 2 hari	45-47/LPB	5-6/LPB	-	ISK Asimtomatik	1
47	82	P	20	CVA	12	Demam, nyeri tekan abdomen	175-200/LPB	5-8/LPB	-	ISK Asimtomatik	1
54	78	L	90	Pembesaran prostat jinak (BPH)	3	Distensi abdomen, nyeri suprapubik, dysuria	89-95/LPB	7-9/LPB	-	ISK Asimtomatik	1

## Attachment 14 Statistical Test Results SPSS 27.0

**FREQUENCIES****Level\_Mobility**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Total Dependency	2	13.3	13.3	13.3
	Heavy Dependency	8	53.3	53.3	66.7
	Moderate Dependency	4	26.7	26.7	93.3
	Mild Dependency	1	6.7	6.7	100.0
	Total	15	100.0	100.0	

**Urinary\_Tract\_Infection**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UL	11	73.3	73.3	73.3
	UL+Culture	4	26.7	26.7	100.0
	Total	15	100.0	100.0	

**Timing\_of\_UTIs**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3-5 Days	5	33.3	33.3
	6-8 Days	1	6.7	40.0
	9-11 Days	2	13.3	53.3
	12-14 Days	4	26.7	80.0
	15-17 Days	1	6.7	86.7
	18-20 Days	2	13.3	100.0
	Total	15	100.0	100.0

**Age**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	60-64 years old	2	13.3	13.3
	65-70 years old	5	33.3	46.7
	71-85 years old	8	53.3	100.0
	Total	15	100.0	100.0

**Gender**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	6	40.0	40.0	40.0
	Female	9	60.0	60.0	100.0
	Total	15	100.0	100.0	

**Nonparametric Correlations****Correlations**

			Level_Mobility	Timing_of_UTIs
Spearman's rho	Level_Mobility	Correlation Coefficient	1.000	-.765**
		Sig. (2-tailed)	.	.001
		N	15	15
	Timing_of_UTIs	Correlation Coefficient	-.765**	1.000
		Sig. (2-tailed)	.001	.
		N	15	15

\*\* . Correlation is significant at the 0.01 level (2-tailed).

## Crosstabs

## Urinary\_Tract\_Infection \* Timing\_of\_UTIs Crosstabulation

		Timing_of_UTIs						Total	
		3-5 Days	6-8 Days	9-11 Days	12-14 Days	15-17 Days	18-20 Days		
Urinary_Tract_Infection	UL	Count	5	1	2	3	0	0	11
		% within Timing_of_UTIs	100.0%	100.0%	100.0%	75.0%	0.0%	0.0%	73.3%
		% of Total	33.3%	6.7%	13.3%	20.0%	0.0%	0.0%	73.3%
	UL+Culture	Count	0	0	0	1	1	2	4
		% within Timing_of_UTIs	0.0%	0.0%	0.0%	25.0%	100.0%	100.0%	26.7%
		% of Total	0.0%	0.0%	0.0%	6.7%	6.7%	13.3%	26.7%
Total	Count	5	1	2	4	1	2	15	
	% within Timing_of_UTIs	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	% of Total	33.3%	6.7%	13.3%	26.7%	6.7%	13.3%	100.0%	



	% of Total	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
	Count	5	1	2	4	1	2	15
Total	% within Timing_of_UTIs	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	33.3%	6.7%	13.3%	26.7%	6.7%	13.3%	100.0%

Attachment 15 Activity Plan

No	Activity	November 2024				December 2024				January 2025				February 2025				March 2025				April 2025				May 2025				June 2025			
		Week				Week				Week				Week				Week				Week				Week							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1.	Preparation and Consultation of Thesis Proposal Guidance	■	■	■	■	■	■	■	■	■	■																						
2.	Preliminary Case Study and Thesis Proposal Guidance Consultation						■	■	■	■	■																						
3.	Submission of Thesis Proposal Seminar											■	■																				
4.	Submission of Research Code of Ethics													■	■	■	■	■	■	■	■												
5.	Main Research																					■	■	■	■								
6.	Data Analysis and Preparation of Final Thesis Assignment																									■	■	■	■				

7.	Submission of Seminar Results																																
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*Attachment 16 Documentation*



## Attachment 17 Result of Plagiarism

THESIS_INDO_ALFI_IKA_PURWATI-1748918296804			
ORIGINALITY REPORT			
<b>18</b> %	<b>19</b> %	<b>2</b> %	<b>9</b> %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES			
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<b>2</b>	<a href="http://repository.poltekkes-denpasar.ac.id">repository.poltekkes-denpasar.ac.id</a> Internet Source		<b>4</b> %
<b>3</b>	Submitted to Badan PPSDM Kesehatan Kementerian Kesehatan Student Paper		<b>2</b> %
<b>4</b>	<a href="http://repository.stikstellamarismks.ac.id">repository.stikstellamarismks.ac.id</a> Internet Source		<b>1</b> %
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<b>10</b>	<b>repository.poltekkes-kaltim.ac.id</b> Internet Source	<b>1</b> %
<b>11</b>	<b>bajangjournal.com</b> Internet Source	<b>1</b> %
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## BIODATA



Alfi Ika Purwati is the author of this research proposal. Born in Nganjuk Regency, East Java Province on June 14, 2003. The author is the first child of two siblings from Mr. Purwanto and Mrs. Susilowati. The author's educational history began with elementary school/equivalent education at MI. Nyai H. Ashfiyah Surabaya from 2009 to 2015, then continued her junior high school/equivalent education at SMP IT Shafta Surabaya from 2015 to 2018.

In 2018, the author continued her education at SMAN Bareng Jombang until 2021. The author was accepted as an Independent Applied Bachelor's student in the Malang Nursing Applied Bachelor's Study Program and the Nursing Profession of the Malang Ministry of Health Polytechnic in 2021.

With perseverance and high motivation to continue learning and increasing insight, the author has succeeded in completing the writing of this research proposal. Hopefully, the writing of this research proposal can be useful and provide active contributions in the world of education and health. Finally, the author would like to express gratitude and thanks to all parties who have helped complete the writing of the research proposal entitled "The Relationship between Mobility and Timing of Urinary Tract Infections Incidence in the Elderly with Catheters in the Inpatient Ward of the IHC Lavalette Hospital, Malang City".