

APPENDIX

Appendix 1 Research Activity Plan

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
Proposal Preparation and Mentoring																																
Preliminary Study and Proposal Mentoring																																
Proposal Seminar																																
Submission for Research Ethical Approval																																
Main Research																																

Appendix 2 Preliminary Study Permission Request 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.15/1757/2024 17 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, Rampal 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 : Reny Nur Indah Firdaus
NIM/Semester : P17211217148 / VII
Asal Program Studi : Sarjana Terapan Keperawatan Malang
Judul Skripsi : Hubungan Interdialytic Weight Gain (IDWG) dengan Hipertensi Intradialisis pada Pasien End Stage Renal Disease di Ruang Hemodialisis
No. HP : 085646824785

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

Appendix 3 Research Permission Request 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.15/578/2025 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 : Reny Nur Indah Firdaus
 NIM/Semester : P17211217148 / VIII
 Asal Program Studi : Sarjana Terapan Keperawatan Malang
 Judul Skripsi : Hubungan Interdialytic Weight Gain dengan Perubahan Tekanan Darah Intradialisis pada Pasien End Stage Renal Disease Yang Menjalani Hemodialisis di RS IHC Lavalette
 No. HP : 085646824785

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

Appendix 4 Ethical Clearance Letter



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.30/00350/2025

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

Peneliti utama : Reny Nur Indah Firdaus
Principal In Investigator

Nama Institusi : Politeknik Kesehatan Kemenkes Malang
Name of the Institution

Dengan judul:
Title

"Hubungan Interdialytic Weight Gain dengan Perubahan Tekanan Darah Intradialisis pada Pasien End Stage Renal Disease yang Menjalani Hemodialis di Rumah Sakit Lavalette"

"Relationship between Interdialytic Weight Gain with Changes in Intradialytic Blood Pressure in End Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital"

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 23 Mei 2025 sampai dengan tanggal 23 Mei 2026.

This declaration of ethics applies during the period May 23, 2025 until May 23, 2026.



May 23, 2025
Chairperson,



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

Appendix 5 Research Permission Reply Letter



Malang, 20 Mei 2025

Nomor Surat : DA01-INSIP-BB/P-B/25-05-20/453
 Perihal : Persetujuan Penelitian
 Lampiran : -

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

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

Menindaklanjuti Surat dari Ketua Jurusan Keperawatan Poltekkes Kemenkes Malang nomor PP.06.02/F.XXI.15/578/2025 tentang Surat Permohonan Ijin Penelitian tanggal 16 April 2025 dan meneruskan surat dari Direktur RS Lavalette nomor DA01-INSIP-BB/P-B/25-04-30/443 perihal Persetujuan Penelitian tanggal 30 April 2025. Bersama ini kami sampaikan bahwa Mahasiswa Poltekkes Kemenkes Malang berikut telah melaksanakan pengambilan data penelitian di Rumah Sakit Lavalette pada 5 s.d 11 Mei 2025, sebagai berikut :

Nama : Reny Nur Indah Firdaus
 NIM/Semester: P17211217148 / VIII
 Asal Prodi : Sarjanan Terapan Keperawatan Malang
 Judul : Hubungan Interdialytic Weight Gain dengan Perubahan Tekanan Darah Intradialis pada Pasien End Stage Renal Disease Yang Menjalani Hemodialisis di RS IHC Lavalette.

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

Appendix 6 Letter of Completion of Research



Malang, 30 April 2025

Nomor Surat : DA01-INSIP-BB/P-B/25-04-30/443
 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.15/578/2025 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 : Reny Nur Indah Firdaus
 NIM/Semester: P17211217148 / VIII
 Asal Prodi : Sarjana Terapan Keperawatan Malang
 Judul : Hubungan Interdialytic Weight Gain dengan Perubahan Tekanan Darah Intradialis pada Pasien End Stage Renal Disease Yang Menjalani Hemodialisis di RS IHC Lavalette.

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

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

Appendix 7 Research Information Sheet

RESEARCH INFORMATION SHEET**Research Title:**

The Relationship between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital.

Research Synopsis:

My name is Reny Nur Indah Firdaus, and I'm an Bachelor of Applied Nursing student at Malang Health Polytechnic of the Ministry of Health. I'm conducting a study for my final thesis, titled "The Relationship Between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End-Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital." This research aims to understand how Interdialytic Weight Gain (IDWG) relates to intradialytic blood pressure changes in patients with End-Stage Renal Disease who are undergoing hemodialysis.

Procedure:

Researchers will obtain informed consent from all respondents. This consent process will include a clear explanation that the study involves collecting respondent characteristics such as name, age, gender, duration of hemodialysis, and medical history. Additionally, researchers will conduct observations of blood pressure and body weight as part of the data collection.

Benefit:

After participating in this research, respondents will gain increased knowledge and information regarding the relationship between Interdialytic Weight Gain (IDWG) and the intradialytic blood pressure changes they experience.

Confidentiality:

All data related to this research will be kept strictly confidential. The information obtained will only be known by the researchers and the respondents. Any data presented in the study will maintain the anonymity of individuals and will be used solely for the advancement of nursing science.

Potential Risk:

There are no anticipated potential risks associated with respondent involvement in this study. This research is purely observational and poses no harm to participants.

Right to Withdraw:

Participation in this study is entirely voluntary. Respondents have the right to withdraw at any time without facing any negative consequences.

Appendix 8 Information Sheet

INFORMATION SHEET

To Whom it May Concern

Dear Sir/Madam,

I am a student from the Bachelor of Applied Nursing Study Program at Health Polytechnic of the Ministry of Health Malang

Name : Reny Nur Indah Firdaus

NIM : P17211217148

I am currently preparing my final thesis. In connection with this, I kindly request your willingness to participate as a respondent in my research titled: "The Relationship Between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital".

I assure you that your identity and all data obtained will be kept confidential. The results of this research are expected to be beneficial, therefore, please complete the observation based on your personal experience.

Thank you for your willingness and assistance. Sincerely

.....,

Researcher,

Reny Nur Indah Firdaus

Appendix 9 Informed Consent Form

INFORMED CONSENT

I, the undersigned

Name :

Age :

Hereby declare that I fully understand and acknowledge that this research will not cause me any harm, and that the data collected will be used solely for research purposes. Therefore, I agree to participate in the study titled: "The Relationship Between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End-Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital," conducted by Reny Nur Indah Firdaus, a student of the Bachelor of Applied Nursing Study Program at Malang Health Polytechnic of the Ministry of Health.

This statement is made truthfully, consciously, and without any pressure from any party.

Researcher,

.....,

Respondent,

Reny Nur Indah Firdaus

(.....)

Appendix 10 Observation Sheet

OBSERVATION SHEET**A. Respondent Characteristics**

Name :

Age :

Gender :

B. Duration of Hemodialysis

How long (months/years) have you been undergoing hemodialysis therapy?	
--	--

C. Past Medical History

Do you have any previous medical conditions?	
--	--

D. Fluid Intake During Interdialytic Period

What types of beverages do you consume during the interdialytic period, and in what quantities?	
---	--

E. IDWG

BW Post HD 1	BW Pre HD 2	IDWG	Category

F. Blood Pressure

Blood Pressure Pre-Hemodialysis	Blood Pressure Post-Hemodialysis

Appendix 11 Data Tabulation

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
1	P	63	1	BATU GINJAL	AIR PUTIH: 1000 ml, KOPI: 500 ml	53,20	54,25	1,97%	RENDAH	160/88	170/90	10	HIPERTENSI INTRADIALISIS
2	P	72	1,4	HIPERTENSI, DM	AIR PUTIH: 1200 ml	54,45	54,85	0,73%	RENDAH	128/65	158/76	30	HIPERTENSI INTRADIALISIS
3	L	59	0,7	HIPERTENSI, ASAM URAT, KOLESTEROL	AIR PUTIH: 800 ml	60,25	60,55	0,50%	RENDAH	163/93	172/101	9	STABIL
4	P	45	3	HIPERTENSI	AIR PUTIH: 1200 ml	53,44	53,80	0,67%	RENDAH	129/78	140/86	11	HIPERTENSI INTRADIALISIS
5	P	47	1,5	HIPERTENSI	AIR PUTIH: 1000 ml	63,50	64,70	1,89%	RENDAH	139/72	174/84	35	HIPERTENSI INTRADIALISIS
6	L	44	8	HIPERTENSI	AIR PUTIH: 1200 ml, ES JERUK: 400 ml	59,40	59,65	0,42%	RENDAH	160/86	179/102	19	HIPERTENSI INTRADIALISIS
7	P	70	2	HIPERTENSI	AIR PUTIH: 1200 ml	41,30	42,55	3,03%	RENDAH	159/64	206/71	47	HIPERTENSI INTRADIALISIS
8	L	72	6	DM	AIR PUTIH: 800 ml	54,56	54,65	0,16%	RENDAH	158/71	140/73	-18	STABIL
9	P	61	2,8	HIPERTENSI	AIR PUTIH: 2000 ml	54,34	57,60	6,00%	SEDANG	211/98	178/87	-33	HIPOTENSI INTRADIALISIS

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
10	P	59	3,5	AUTOIMUN	AIR PUTIH: 1200 ml	55,50	57,23	3,12%	RENDAH	140/79	143/97	3	STABIL
11	L	44	0,7	HIPERTENSI	AIR PUTIH: 1000 ml	60,25	60,58	0,55%	RENDAH	160/73	188/93	28	HIPERTENSI INTRADIALISIS
12	L	64	2,2	HIPERTENSI, DM, ASAM LAMBUNG	AIR PUTIH: 1200 ml, TEH: 400 ml	52,60	54,65	3,90%	RENDAH	180/93	210/104	30	HIPERTENSI INTRADIALISIS
13	L	65	1,5	HIPERTENSI, ASAM LAMBUNG	AIR PUTIH: 800 ml	44,34	45,56	2,75%	RENDAH	129/74	130/85	1	STABIL
14	L	57	2,5	DM	AIR PUTIH: 1200 ml	79,45	81,23	2,24%	RENDAH	156/90	162/104	6	STABIL
15	L	59	2	DM	AIR PUTIH: 500 ml, TEH: 200 ml, KOPI: 200 ml	55,32	58,13	5,08%	SEDANG	158/118	146/86	-12	STABIL
16	P	48	4,6	HIPERTENSI	AIR PUTIH: 1300 ml, TEH: 100 ml, KOPI: 100 ml	56,34	59,45	5,52%	SEDANG	180/96	192/91	12	HIPERTENSI INTRADIALISIS
17	P	24	1,5	HIPERTENSI	AIR PUTIH: 700 ml	48,12	49,35	2,56%	RENDAH	160/101	210/122	50	HIPERTENSI INTRADIALISIS
18	P	51	6	HIPERTENSI, DM	AIR PUTIH: 400 ml, TEH: 100 ml	44,20	47,35	7,13%	BERAT	165/87	147/83	-18	STABIL
19	L	65	1,8	ASAM URAT	AIR PUTIH: 1200 ml, TEH: 200 ml	60,50	61,65	1,90%	RENDAH	126/76	148/101	22	HIPERTENSI INTRADIALISIS

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
20	P	63	2	HIPERTENSI	AIR PUTIH: 1200 ml	52,25	53,50	2,39%	RENDAH	146/79	150/89	4	STABIL
21	L	60	7	HIPERTENSI	AIR PUTIH: 1200 ml	72,34	74,20	2,57%	RENDAH	188/82	176/80	-12	STABIL
22	P	38	12	HIPERTENSI	AIR PUTIH: 1600 ml, TEH: 200 ml, KOPI: 200 ml	71,35	74,33	4,18%	SEDANG	150/90	185/104	35	HIPERTENSI INTRADIALISIS
23	P	26	2,5	HIPERTENSI	AIR PUTIH: 900 ml	66,21	68,35	3,23%	RENDAH	131/89	134/98	3	STABIL
24	L	40	2	HIPERTENSI	AIR PUTIH: 1600 ml, TEH: 200 ml, KOPI: 200 ml	68,20	70,25	3,01%	RENDAH	185/102	152/91	-33	HIPOTENSI INTRADIALISIS
25	P	28	9	HIPERTENSI	AIR PUTIH: 1300 ml, TEH: 100 ml, KOPI: 100 ml	41,45	41,70	0,60%	RENDAH	160/104	165/108	5	STABIL
26	L	42	9	HIPERTENSI	AIR PUTIH: 1100 ml, TEH: 100 ml, KOPI: 100 ml	57,15	59,50	4,11%	SEDANG	162/79	192/92	30	HIPERTENSI INTRADIALISIS
27	P	53	1	HIPERTENSI, DM	AIR PUTIH: 800 ml	57,43	58,68	2,18%	RENDAH	171/79	180/94	9	STABIL
28	P	35	1	HIPERTENSI	AIR PUTIH: 2000 ml	59,50	60,85	2,27%	RENDAH	137/86	139/97	2	STABIL

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
29	L	58	5	HIPERTENSI, ASAM URAT	AIR PUTIH: 1000 ml, KOPI: 600 ml	61,50	64,50	4,88%	SEDANG	147/76	158/88	11	HIPERTENSI INTRADIALISIS
30	L	72	8	BATU GINJAL	AIR PUTIH: 1300 ml, TEH: 100 ml	66,20	67,12	1,39%	RENDAH	142/72	144/65	2	STABIL
31	L	57	6	DM	AIR PUTIH: 700 ml, TEH: 100 ml, KOPI: 100 ml	82,50	85,55	3,70%	RENDAH	176/69	208/75	32	HIPERTENSI INTRADIALISIS
32	P	57	6	HIPERTENSI, DM	AIR PUTIH: 1000 ml	45,50	47,50	4,40%	SEDANG	199/97	200/110	1	STABIL
33	L	60	8	HIPERTENSI, ASAM LAMBUNG	AIR PUTIH: 800 ml, KOPI: 200 ml	51,45	53,50	3,98%	RENDAH	170/90	164/59	-6	STABIL
34	L	55	5	HIPERTENSI, ASAM URAT	AIR PUTIH: 1200 ml	60,50	63,88	5,59%	SEDANG	255/123	240/125	-15	STABIL
35	P	45	3	DM	AIR PUTIH: 400 ml, KOPI: 100 ml	46,20	46,50	0,65%	RENDAH	140/90	147/92	7	STABIL
36	L	48	3	HIPERTENSI	AIR PUTIH: 1300 ml, TEH: 100 ml	57,40	60,20	4,88%	SEDANG	182/105	170/112	-12	STABIL
37	L	40	5	BATU GINJAL	AIR PUTIH: 1900 ml, TEH: 100 ml	57,21	59,32	3,69%	RENDAH	130/80	146/88	16	HIPERTENSI INTRADIALISIS
38	L	46	2	HIPERTENSI, DM	AIR PUTIH: 1100 ml, TEH: 100 ml, KOPI: 100 ml	52,30	54,29	3,80%	RENDAH	146/80	148/78	2	STABIL

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
39	L	65	1,5	HIPERTENSI	AIR PUTIH: 1200 ml	48,50	49,50	2,06%	RENDAH	157/85	221/102	64	HIPERTENSI INTRADIALISIS
40	P	47	16	INFEKSI GINJAL	AIR PUTIH: 1800 ml, TEH: 100 ml, KOPI SUSU: 100 ml	37,25	39,30	5,50%	SEDANG	111/68	81/62	-30	HIPOTENSI INTRADIALISIS
41	P	58	1,5	HIPERTENSI, DM	AIR PUTIH: 1200 ml	56,50	57,50	1,77%	RENDAH	170/80	177/85	7	STABIL
42	P	54	10	HIPERTENSI	AIR PUTIH: 1300 ml	67,20	69,30	3,12%	RENDAH	200/100	162/109	-38	HIPOTENSI INTRADIALISIS
43	L	65	3,5	HIPERTENSI, DM	AIR PUTIH: 1000 ml, TEH: 100 ml, KOPI: 100 ml	59,15	60,21	1,79%	RENDAH	167/87	140/77	-27	HIPOTENSI INTRADIALISIS
44	L	59	3	HIPERTENSI	AIR PUTIH: 1100 ml, KOPI: 100 ml	48,55	49,57	2,10%	RENDAH	187/94	217/107	30	HIPERTENSI INTRADIALISIS
45	P	50	2,5	HIPERTENSI, DM	AIR PUTIH: 1100 ml, TEH: 100 ml	60,10	61,78	2,80%	RENDAH	170/84	130/75	-40	HIPOTENSI INTRADIALISIS
46	L	69	7,5	DM, KOLESTEROL	AIR PUTIH: 1400 ml, TEH: 100 ml, KOPI: 100 ml	70,14	70,56	0,60%	RENDAH	128/63	135/69	7	STABIL
47	P	51	0,6	HIPERTENSI, DM	AIR PUTIH: 1200 ml	45,40	48,45	6,72%	BERAT	170/73	184/83	14	HIPERTENSI INTRADIALISIS

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
48	P	55	1,9	HIPERTENSI, DM	AIR PUTIH: 1000 ml	65,25	67,40	3,30%	RENDAH	150/82	176/89	26	HIPERTENSI INTRADIALISIS
49	P	58	2	HIPERTENSI	AIR PUTIH: 1000 ml, SUSU: 200 ml	61,50	62,50	1,63%	RENDAH	155/76	151/83	-4	STABIL
50	P	55	8	HIPERTENSI	AIR PUTIH: 1200 ml	62,30	64,30	3,21%	RENDAH	169/76	127/79	-42	HIPOTENSI INTRADIALISIS
51	P	36	7	DM, PREEKLAMSI	AIR PUTIH: 1200 ml	58,10	61,14	5,23%	SEDANG	202/103	182/85	-20	HIPOTENSI INTRADIALISIS
52	L	37	2,4	HIPERTENSI	AIR PUTIH: 800 ml, TEH: 100 ml, KOPI: 100 ml	78,30	79,36	1,35%	RENDAH	166/90	189/99	23	HIPERTENSI INTRADIALISIS
53	L	43	7	AUTOIMUN	AIR PUTIH: 1000 ml, TEH: 200 ml	61,40	63,50	3,42%	RENDAH	161/88	174/94	13	HIPERTENSI INTRADIALISIS
54	L	53	4	HIPERTENSI	AIR PUTIH: 600 ml, TEH: 300 ml	53,40	55,78	4,46%	SEDANG	202/83	166/76	-36	HIPOTENSI INTRADIALISIS
55	P	62	2,5	HIPERTENSI	AIR PUTIH: 1300 ml	62,31	64,25	3,11%	RENDAH	172/90	190/100	18	HIPERTENSI INTRADIALISIS
56	L	63	8	HIPERTENSI, GLAUKOMA	AIR PUTIH: 1000 ml, AIR GULA: 300 ml	88,40	90,50	2,38%	RENDAH	159/77	177/91	18	HIPERTENSI INTRADIALISIS

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
57	L	49	8	HIPERTENSI	AIR PUTIH: 1600 ml, AIR GULA: 300 ml, KOPI: 100 ml	87,20	90,20	3,44%	RENDAH	151/88	113/67	-38	HIPOTENSI INTRADIALISIS
58	P	58	2	HIPERTENSI, BATU GINJAL	AIR PUTIH: 900 ml, KOPI: 100 ml	45,32	47,30	4,37%	SEDANG	133/79	175/98	42	HIPERTENSI INTRADIALISIS
59	P	43	10	HIPERTENSI	AIR PUTIH: 1700 ml, TEH: 300 ml	63,21	65,29	3,29%	RENDAH	152/90	172/93	20	HIPERTENSI INTRADIALISIS
60	P	52	4	HIPERTENSI	AIR GULA: 1400 ml, AIR PUTIH: 200 ml	55,30	56,30	1,81%	RENDAH	144/86	147/78	3	STABIL
61	P	51	10	HIPERTENSI	AIR PUTIH: 1200 ml	55,80	57,00	2,15%	RENDAH	141/76	144/79	3	STABIL
62	L	38	3	HIPERTENSI, DM	AIR PUTIH: 1200 ml	58,20	58,60	0,69%	RENDAH	184/100	190/110	6	STABIL
63	P	29	8	HIPERTENSI	AIR PUTIH: 2000 ml	42,40	44,50	4,95%	SEDANG	190/100	195/112	5	STABIL
64	L	64	2	HIPERTENSI, BATU GINJAL	AIR PUTIH: 500 ml, TEH: 200 ml	69,10	69,66	0,81%	RENDAH	137/77	141/84	4	STABIL
65	L	64	10	HIPERTENSI, BATU GINJAL	AIR PUTIH: 1800 ml, KOPI: 200 ml	72,60	75,60	4,13%	SEDANG	230/101	203/81	-27	HIPOTENSI INTRADIALISIS

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
66	P	73	2,5	HIPERTENSI, DM	AIR PUTIH: 500 ml, TEH: 100 ml	45,30	46,31	2,23%	RENDAH	170/82	206/98	36	HIPERTENSI INTRADIALISIS
67	L	64	11	HIPERTENSI, STROKE	AIR PUTIH: 700 ml, TEH: 100 ml	59,00	59,70	1,19%	RENDAH	156/69	160/75	4	STABIL
68	P	59	8	HIPERTENSI, DM	AIR PUTIH: 500 ml, TEH: 100 ml	48,50	50,70	4,54%	SEDANG	150/56	170/80	20	HIPERTENSI INTRADIALISIS
69	L	66	3,5	HIPERTENSI, DM	AIR PUTIH: 250 ml, TEH: 100 ml	60,15	63,12	4,94%	SEDANG	172/87	173/92	1	STABIL
70	P	46	11	DM	AIR PUTIH: 1600 ml	46,40	47,60	2,59%	RENDAH	115/80	119/77	4	STABIL
71	P	57	9	HIPERTENSI	AIR PUTIH: 1000 ml, TEH: 200 ml	55,41	58,50	5,58%	SEDANG	169/86	174/90	5	STABIL
72	L	32	3	HIPERTENSI	AIR PUTIH: 1200 ml	75,10	77,21	2,81%	RENDAH	134/90	138/94	4	STABIL
73	P	53	5	HIPERTENSI, DM	AIR PUTIH: 500 ml, TEH: 100 ml	55,61	57,60	3,58%	RENDAH	180/85	211/90	31	HIPERTENSI INTRADIALISIS
74	P	53	3	HIPERTENSI	AIR PUTIH: 1700 ml, TEH: 100 ml, ES JERUK: 200 ml	56,00	58,21	3,95%	RENDAH	183/98	158/90	-25	HIPOTENSI INTRADIALISIS
75	P	69	5	POLIKISTIK, HIPERTENSI	AIR PUTIH: 1700 ml, TEH: 100 ml,	50,10	50,50	0,80%	RENDAH	174/90	183/95	9	STABIL

NO	JK	USIA	LAMA HD	RIWAYAT PENYAKIT	CAIRAN	IDWG				TEKANAN DARAH			
						BB POST HD 1	BB PRE HD 2	IDWG	KATEGORI	TD PRE	TD POST	SELISIH SISTOLIK	KATEGORI
					ES JERUK: 200 ml								
76	L	59	10	HIPERTENSI	AIR PUTIH: 2000 ml	70,00	72,31	3,30%	RENDAH	170/90	148/97	-22	HIPOTENSI INTRADIALISIS
77	L	46	3	DM	AIR PUTIH: 1900 ml, TEH: 100 ml	76,40	80,41	5,25%	SEDANG	147/80	143/90	-4	STABIL
78	L	51	6	HIPERTENSI	AIR PUTIH: 1200 ml	60,56	62,50	3,20%	RENDAH	174/74	182/84	8	STABIL
79	P	53	3	HIPERTENSI	AIR PUTIH: 1200 ml	68,13	70,40	3,33%	RENDAH	156/85	201/93	45	HIPERTENSI INTRADIALISIS
80	L	50	1,7	HIPERTENSI	AIR PUTIH: 1100 ml, TEH: 100 ml	54,50	56,55	3,76%	RENDAH	190/103	206/106	16	HIPERTENSI INTRADIALISIS
81	L	48	4	HIPERTENSI, DM	AIR PUTIH: 1200 ml	78,40	80,51	2,69%	RENDAH	175/64	137/74	-38	HIPOTENSI INTRADIALISIS
82	P	61	2,5	HIPERTENSI, DM	AIR PUTIH: 400 ml	73,30	75,50	3,00%	RENDAH	165/77	134/71	-31	HIPOTENSI INTRADIALISIS
83	P	70	10	HIPERTENSI	AIR PUTIH: 1000 ml	61,50	62,61	1,80%	RENDAH	160/80	163/86	3	STABIL

Appendix 12 Statistical Test Result

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
IDWG	83	.16	7.13	3.0163	1.59609
Perubahan Tekanan Darah Intradialisis	83	-42	64	4.59	23.131
Valid N (listwise)	83				

IDWG * Perubahan Tekanan Darah Intradialisis Crosstabulation

			Perubahan Tekanan Darah Intradialisis			
			Hipotensi Intradialisis	Stabil	Hipertensi Intradialisis	Total
IDWG	Ringan	Count	10	28	24	62
		% within IDWG	16.1%	45.2%	38.7%	100.0%
	Sedang	Count	5	8	6	19
		% within IDWG	26.3%	42.1%	31.6%	100.0%
	Berat	Count	0	1	1	2
		% within IDWG	0.0%	50.0%	50.0%	100.0%
Total		Count	15	37	31	83
		% within IDWG	18.1%	44.6%	37.3%	100.0%

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual	
N		83	
Normal Parameters ^{a,b}	Mean	.0000000	
	Std. Deviation	13.06105192	
Most Extreme Differences	Absolute	.072	
	Positive	.056	
	Negative	-.072	
Test Statistic		.072	
Asymp. Sig. (2-tailed) ^c		.200 ^d	
Monte Carlo Sig. (2-tailed) ^e	Sig.	.354	
	99% Confidence Interval	Lower Bound	.342
		Upper Bound	.367

Correlations





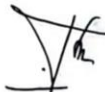





		IDWG	Perubahan Tekanan Darah Intradialisis
IDWG	Pearson Correlation	1	-.209
	Sig. (2-tailed)		.057
	N	83	83
Perubahan Tekanan Darah Intradialisis	Pearson Correlation	-.209	1
	Sig. (2-tailed)	.057	
	N	83	83





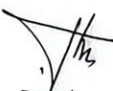







Appendix 13 Thesis Supervision Form



THESIS SUPERVISION FORM
APPLIED BACHELOR OF NURSING STUDY PROGRAM
DEPARTEMEN OF NURSING, HEALTH POLYTECHNIC OF THE
MINISTRY OF HEALTH MALANG

Student Name : **RENY NUR INDAH FIRDAUS**
 NIM : P17211217148
 Supervisor Name : Maria Diah Ciptaningtyas, S.Kep., Ns., M.Kep.,Sp.MB
 Thesis Title : The Relationship between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End Stage Renal Disease Patients Undergoing Hemodialysis at Lavalette Hospital

NO	DATE	SUPERVISOR'S RECOMMENDATION	SIGNATURE	
			SUPERVISOR	STUDENT
1.	January 2, 2025	Title consultation: selecting a research topic considering research costs		
2.	January 6, 2025	Title consultation: "The Relationship Between Interdialytic Weight Gain and Intradialytic Blood Pressure Changes in End-Stage Renal Disease Patients Undergoing Hemodialysis"		
3.	January 13, 2025	Chapter 1 consultation: Global ESRD scale does not need to be included. Include etiology and pathophysiology of ESRD		
4.	January 17, 2025	Chapter 1 approved. Chapter 2 consultation: Chapter 2 to be divided into 2 sub-chapters. Add factors influencing IDWG		
5.	January 20, 2025	Chapter 2 approved. Chapter 3 consultation: Data scale changed to ratio. Correlation test did not match data scale		

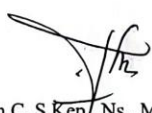
NO	DATE	SUPERVISOR'S RECOMMENDATION	SIGNATURE	
			SUPERVISOR	STUDENT
6.	January 21, 2025	Proposal seminar approved		
7.	May 23, 2025	The sentences in Chapter 3 should be written in the form of a thesis report, not a proposal		
8.	May 26, 2025	The frequency distribution of respondent characteristics should be presented in a single table		
9.	May 28, 2025	The writing structure in Chapter 4 discussion should follow the format of fact-theory-opinion		
10.	June 11, 2025	The discussion in Chapter 4 lacks the researcher's opinion		
11.	June 12, 2025	Results seminar approved		

Head of the Applied Bachelor's
Nursing Study Program,



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

Malang, June 13, 2025
Adviser,





Maria Diah C, S.Kep., Ns., M.Kep., Sp.MB
NIP. 197601052002122005

Appendix 14 Proposal and Thesis Revision Form

EXAM REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
NURSING DEPARTMENT OF MINISTRY OF HEALTH POLICE OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Supono, S.Kep., Ns., M.Kep., Sp.MB
 Examiner : Chief Examiner
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalette Hospital
 Exam Date : February 4, 2025

NO	CHAPTER/ PAGE	DETAILS EXAMINER 'S REVISION	NOTE.	SIGNATURE
1.	CHAPTER 3	- Univariate analysis not only contains demographic data, blood pressure and IDWG data are added.	Univariate analysis was revised to include demographic data, blood pressure, and IDWG. The description of how to collect data has been corrected.	
2.	Attachment	- The data collection method is described in more detail. - The activity plan is included in the attachment - The observation sheet in the nutritional intake analysis section is used as fluid intake.	The revised activity plan has been included in the attachment. The observation sheet has been revised to contain only fluid intake.	

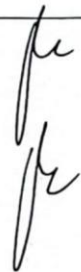
Malang, April 2025
 Head of the Applied Bachelor's
 Nursing Study Program



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

EXAM REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
NURSING DEPARTMENT OF MINISTRY OF HEALTH POLICE OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Joko Wiyono, S.Kp., M.Kep., Sp.Kom
 Examiner : Examiner member II
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalette Hospital
 Exam Date : February 4, 2025

NO	CHAPTER/ PAGE	DETAILS EXAMINER 'S REVISION	NOTE.	SIGNATU RE
1.	CHAPTER 2	- Strengthening the theory regarding the concept of hemodialysis	Fixed	
2.	CHAPTER 3	- The method of data collection if done twice must use the same instrument - The method of data collection for each respondent uses the same instrument.	Has been fixed and adjusted	



Malang, April 2025
 Head of the Applied Bachelor's
 Nursing Study Program



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

EXAM REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
NURSING DEPARTMENT OF MINISTRY OF HEALTH POLICE OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Maria Diah Ciptaningtyas, S.Kep., Ns., M.Kep., Sp.MB
 Examiner : Examiner Member III/Supervisor
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalette Hospital
 Exam Date : February 4, 2025

NO	CHAPTER/ PAGE	DETAILS EXAMINER 'S REVISION	NOTE.	SIGNATURE
1.	CHAPTER 3	<ul style="list-style-type: none"> - The data collection method was carried out in 2 meetings to use the same instrument. - The weighing instrument is calibrated first 	Fixed	
2.	Attachment	<ul style="list-style-type: none"> - Fluid observation sheet clarified for type and quantity 	The fluid intake observation sheet has been corrected.	

Malang, April 2025
 Head of the Applied Bachelor's
 Nursing Study Program






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

NIP. 197407281998031002

THESIS REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
DEPARTMENT OF NURSING, HEALTH POLYTECHNIC OF THE MINISTRY OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Supono, S.Kep., Ns., M.Kep., Sp.MB
 Examiner : Chief Examiner
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalcttc Hospital
 Result Seminar Date : June 24, 2025

NO	CHAPTER	DETAILS EXAMINER'S REVISION	NOTE	SIGNATURE
1.	Chapter III	- Explanation of the statistical test should be included in Chapter III only and does not need to be repeated in Chapter IV	Has been corrected	
2.	Chapter IV	- The percentage symbol (%) in frequency distribution tables does not need to be repeated - The mean value of IDWG should be accompanied by units to facilitate reader understanding	The percentage notation has been corrected	
3.	Chapter V	- In the conclusion, there is no need to mention "the majority" as there is no clear parameter defining it	Has been corrected	


Malang, July 3rd 2025
 Head of the Applied Bachelor's
 Nursing Study Program,



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

THESIS REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
DEPARTMENT OF NURSING, HEALTH POLYTECHNIC OF THE MINISTRY OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Joko Wiyono, S.Kp., M.Kep., Sp.Kom
 Examiner : Examiner II
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalette Hospital
 Result Seminar Date : June 24, 2025

NO	CHAPTER	DETAILS EXAMINER'S REVISION	NOTE	SIGNATURE
1.	Chapter IV	<ul style="list-style-type: none"> - The explanation of the physiology of IDWG in relation to ultrafiltration rate and its effect on intradialytic blood pressure is unclear. - The explanation of how significantly IDWG affects intradialytic blood pressure is lacking. 	Has been corrected	


Malang, June 30, 2025
 Head of the Applied Bachelor's
 Nursing Study Program.



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

THESIS REVISION SHEET
BACHELOR OF APPLIED NURSING STUDY PROGRAM
DEPARTMENT OF NURSING, HEALTH POLYTECHNIC OF THE MINISTRY OF
HEALTH MALANG

Student Name : Reny Nur Indah Firdaus
 NIM : P17211217148
 Examiner Name : Maria Diah Ciptaningtyas, S.Kep., Ns., M.Kep., Sp.MB
 Examiner : Examiner I II
 Thesis Title : Relationship between *Interdialytic Weight Gain* and Changes in
 Intradialysis Blood Pressure in *End Stage Renal Disease Patients*
 Undergoing Hemodialysis at Lavalette Hospital
 Result Seminar Date : June 24, 2025

NO	CHAPTER	DETAILS EXAMINER'S REVISION	NOTE	SIGNATURE
1.	Chapter IV	<ul style="list-style-type: none"> - The explanation of the physiology of IDWG in relation to ultrafiltration rate and its effect on intradialytic blood pressure is unclear. - The explanation of how significantly IDWG affects intradialytic blood pressure is lacking. 	Has been corrected	

Malang, ... July 3rd ... 2025
 Head of the Applied Bachelor's
 Nursing Study Program,



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

Appendix 15 Plagiarism Check Result

SKRIPSI_RENY_NUR_INDANH-1749906668751			
ORIGINALITY REPORT			
22%	20%	11%	8%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES			
1	text-id.123dok.com Internet Source		1%
2	journal.ugm.ac.id Internet Source		1%
3	repository.unair.ac.id Internet Source		1%
4	repository.unissula.ac.id Internet Source		1%
5	scholar.unand.ac.id Internet Source		1%
6	123dok.com Internet Source		1%
7	www.scribd.com Internet Source		1%
8	journal.ppnijateng.org Internet Source		1%
9	pt.scribd.com Internet Source		1%
10	es.scribd.com Internet Source		1%
11	adoc.pub Internet Source		<1%
12	rslavalette.ihc.id Internet Source		<1%

Appendix 16 Research Documentation



Appendix 17 Biodata

BIODATA

Name : Reny Nur Indah Firdaus

Place, Date of Birth : Malang, 13 Oktober 2002

Address : Jl. Pramuka Gg. Walet No. 4,
Lawang, Malang

Religion : Islam

Parents' Names

 Father : Sukiran

 Mother : Nurul Hindarwati

Number of Siblings : 2

Child Order : 1st

Educational Background : 2009 – 2015: SDN Kalirejo II
2015 – 2018: SMP Negeri 1 Singosari
2018 – 2021: SMA Negeri 1 Lawang

