

DAFTAR PUSTAKA

- Ahmed, F. (2025). *Surgical Site Infection Overview; Cross-Sectional Study*. 14(32), 4805–4814.
- Al-mulhim, F. A., Baragbah, M. A., Sadat-ali, M., Alomran, A. S., & Azam, Q. (2014). *Prevalence of Surgical Site Infection in Orthopedic Surgery: A 5-year Analysis*. 264–268. <https://doi.org/10.9738/INTSURG-D-13-00251.1>
- Apsic, P., Infeksi, P., & Operasi, D. (2018). *Juni 2018*. 1–58.
- Asih, S. A. (2024). Identifikasi Bakteri Pada Pasien Infeksi Luka Operasi (ILO) Pasca Bedah Orthopedi Di RS X Pekalongan “ Identifikasi Bakteri Penyebab Infeksi Luka Operasi (ILO) Nosokomial Pada Ruang Rawat. *Jurnal Ilmu Kesehatan Dan Kedokteran*, 2(1), Bacteria, ILO, Orthopedic Surgery.
- Atira, A., Salmiyah, E., & Purwandi, D. P. (2021). Kejadian Infeksi Luka Operasi pada Pasien Post Operasi Apendiktomi. *Global Health Science*, 6(3), 101–104.
- Atirah. (2021). *Global health science*. 6(3), 2019–2022.
- Barung, S., Sapan, H. B., Sumanti, W. M., & Tubagus, R. (2016). *Pola kuman dari infeksi luka operasi pada pasien multitrauma 1*. 115–120.
- Barung, S., Sapan, H. B., Sumanti, W. M., & Tubagus, R. (2017). *Pola kuman dari infeksi luka operasi pada pasien multitrauma 1*. 115–120.
- CDC. (2017). *Centers for Disease Control and Prevention Guideline for the Prevention of Surgical Site Infection, 2017*. 1–8. <https://doi.org/10.1001/jamasurg.2017.0904>
- Cui, P., & Fang, X. (2015). *Pathogenesis of infection in surgical patients*. <https://doi.org/10.1097/MCC.0000000000000227>
- Di, O., Obstetri, D., Djamil, G. R. M., Periode, P., Alfajri, M. H., Djanas, D., Suharti, N., Rasyid, R., & Usman, E. (2025). *ARTIKEL PENELITIAN Pola Kuman Dan Uji Kepekaan Antibiotik Pada Kasus Infeksi Daerah*. 46(4).
- Health-, A., & Sectors, C. (n.d.). *SURGICAL SITE INFECTION ACROSS HEALTH-*.
- Ii, B. A. B. (2014). *Bab ii tinjauan pustaka 2.1*. 7–22.
- Ii, B. A. B., & Pustaka, A. T. (2014). *Poltekkes Kemenkes Yogyakarta*. 7–25.
- Kalipuro, K. (2019). *Isolasi dan Identifikasi Staphylococcus aureus pada Susu Kambing Peranakan Etawah Penderita Mastitis Subklinis di*. 2(2), 76–82. <https://doi.org/10.20473/jmv.vol2.iss2.2019.76-82>
- Kedokteran, F., Cenderawasih, U., Baru, K., Umum, S., & Abepura, D. (2018). *GAMBARAN PETA BAKTERI INFEKSI LUKA OPERASI DI RUANG*

BEDAH RUMAH SAKIT ABEPURA JAYAPURA Herlambang Budi Mulyono. 155–168.

kemenkes. (2020). *No Title.*

Lubega, A., Joel, B., & Lucy, N. J. (2017). *Incidence and Etiology of Surgical Site Infections among Emergency Postoperative Patients in Mbarara Regional Referral Hospital , South Western Uganda. 2017.* <https://doi.org/10.1155/2017/6365172>

Padang, M. D. (2023). *Pola Kuman dan Antibiotika Profilaksis pada Infeksi Luka Operasi di RSUP Dr . 1–6.*

Putra, F., Sandy, T., Yuliwar, R., & Utami, N. W. (2015). *POST OPERASI LAPAROTOMI. 1(1), 14–24.*

Ratih Kartika Dewi, M. B. (2024). *Alamat: Jl. Pramuka No. 02. Ratih Kartika Dewi, 2(1).*

Riset, A. (2019). *Umi medical journal. 4(1), 37–51.*

Sari, L., & Wiryansyah, O. A. (2019). *PERAWATAN LUKA. 10(19).*

Shafira, M. L., Ethica, S. N., & Ernanto, A. R. (n.d.). *DETEKSI Pseudomonas aeruginosa ISOLAT PUS LUKA BERBASIS POLYMERASE CHAIN REACTION MENGGUNAKAN GEN algD DETECTION OF Pseudomonas aeruginosa BASED ON POLYMERASE CHAIN REACTION USING THE algD GENE IN WOUND PUS ISOLATE. 795–806.*

Sutin. (2020). *No Title. FAKTOR – FAKTOR YANG BERHUBUNGAN DENGAN KEJADIAN INFEKSI LUKA OPERASI PADA PASIEN POST SC DI RSIA PUTRI SURABAYA.*

Waleleng, A. A., Waworuntu, O. A., Rares, F. E. S., Studi, P., Dokter, P., Kedokteran, F., Sam, U., Mikrobiologi, B., Kedokteran, F., & Sam, U. (2024). *Identifikasi Pola Bakteri dan Uji Sensitivitas Antibiotik di Kamar Bedah RSU GMIM Pancaran Kasih Manado. 6(2), 296–302.*

World Health Organization. (2019). *Protocol for surgical site infection surveillance with a focus on settings with limited resources.*

LAMPIRAN

Lampiran 1 Foto Alat



Autoclave



Spirtus



Vitek 2 Compact



Mikroskop



Bio Safety Cabinet



Inkubator



Mc Farland



Saline Solution



Rak



Kaset



Erlenmeyer



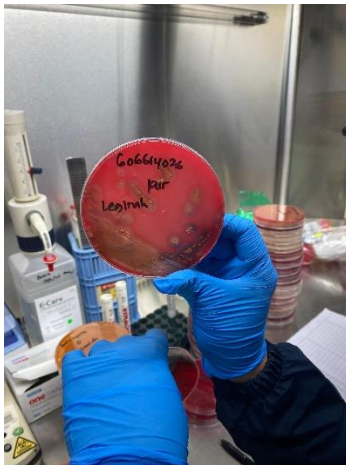
Mikropipet

Lampiran 2 Dokumentasi Penelitian

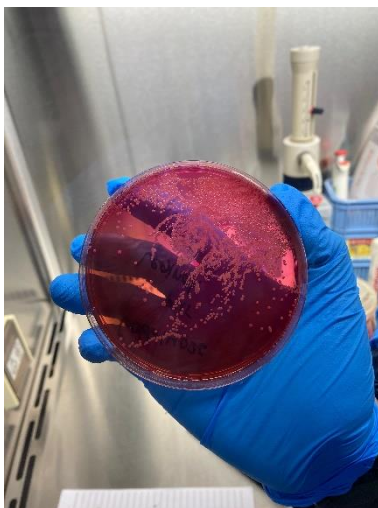




Lampiran 3 Hasil



Bakteri *Staphylococcus aureus* pada Media *Blood Agar*



Bakteri *E coli* pada media MCA

Lampiran 4 Hasil Pemeriksaan Dalam Vitek 2 Compact

Bionumber: 010402063763231		Selected Organism: <i>Staphylococcus aureus</i>	
Comments:			

McFarland:			
Identification Information	Card:	GP	Lot Number: 2423243103
	Status:	Final	Analysis Time: 3.83 hours
Expires:		Oct 13, 2026 12:00 ICT	
Completed:		Jan 21, 2026 14:06 ICT	
Organism Origin	VITEK® 2		
Selected Organism	99% Probability		<i>Staphylococcus aureus</i>
	Bionumber: 010402063763231		Confidence: Excellent identification
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
The following antibiotic(s) are not claimed: Ampicillin, Gentamicin High Level (synergy), Streptomycin High Level (synergy),			
Contraindicating Typical Biopattern(s)			

McFarland:			
Susceptibility Information	Card:	AST-GP67	Lot Number: 1323197403
	Status:	Final	Analysis Time: 12.87 hours
Expires:		Aug 28, 2026 12:00 ICT	
Completed:		Jan 21, 2026 23:08 ICT	

Installed VITEK® 2 Systems Version: 10.0.1

MIC Interpretation Guideline: Global CLSI 2025-based

AES™ Parameter Set Name: Global CLSI 2025-based+Natural Resistance

Therapeutic Interpretation Guideline: NATURAL RESISTANCE 2025

AES™ Parameter Last Modified: Nov 12, 2025 10:51 ICT

Page 1 of 3

Bionumber: 0405610574526610		Selected Organism: Escherichia coli	
Organism Quantity:			
Comments:			

McFarland:			
Identification Information	Card: GN	Lot Number: 2413112203	Expires: Jun 4, 2026 12:00 ICT
	Status: Final	Analysis Time: 3.88 hours	Completed: Jan 19, 2026 14:02 ICT
Organism Origin	VITEK® 2		
Selected Organism	98% Probability Escherichia coli Bionumber: 0405610574526610 Confidence: Excellent identification		
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s) Escherichia coli dTAG(22).			

McFarland:			
Susceptibility Information	Card: AST-N806	Lot Number: 0933350104	Expires: Jan 28, 2027 12:00 ICT
	Status: Final	Analysis Time: 7.08 hours	Completed: Jan 19, 2026 17:15 ICT

Antimicrobial	MIC	Interpretation	Antimicrobial	MIC	Interpretation
ESBL	NEG	-	Cefepime	>= 32	R
Ampicillin	>= 32	R	Ertapenem	0.25	S
Ampicillin/Sulbactam	>= 32	R	Meropenem	<= 0.25	S
Piperacillin/Tazobactam	>= 128	R	Gentamicin	>= 16	R
Cefazolin			Ciprofloxacin	>= 4	R
Urine	>= 32	R	Levofloxacin	>= 8	R
Other	>= 32	R	Nitrofurantoin	128	R
Ceftazidime	>= 32	R	Trimethoprim/Sulfamethoxazole	>= 320	R
Ceftriaxone	>= 64	R			

*= AES™ modified. **= User modified +-= Deduced drug #- Disabled BIOART Limitation Rule (-)= Susceptibility testing not recommended; species is a poor target for therapy IE= Insufficient Evidence that species is good target for therapy; MIC may be reported without interpretation SDD= Susceptible-dose dependent (SDD) implies that susceptibility of an isolate is dependent on the dosing regimen used. For further information, please refer to CLSI Performance Standards, or Product Information. @= Missing required test @= Terminated antibiotic in family |= MIC Suppressed On Chart Report

AES™ Findings:	Last Modified: Nov 12, 2025 10:51 ICT Parameter Set: Global CLSI 2025-based +Natural Resistance
Confidence Level:	Consistent

Installed VITEK® 2 Systems Version: 10.0.1
 MIC Interpretation Guideline: Global CLSI 2025-based
 Therapeutic Interpretation Guideline: NATURAL RESISTANCE 2025
 AES™ Parameter Set Name: Global CLSI 2025-based+Natural Resistance
 AES™ Parameter Last Modified: Nov 12, 2025 10:51 ICT
 Page 1 of 2

Lampiran 5 EIC



**Kementerian Kesehatan
Poltekkes Medan
Komisi Etik Penelitian Kesehatan**

📍 Jalan Jamin Ginting KM. 13,5
Medan, Sumatera Utara 20137
☎ (061) 8368633
🌐 <https://poltekkes-medan.ac.id>

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

No.01.26.2966/KEPK/POLTEKKES KEMENKES MEDAN 2026

Protokol penelitian versi 1 yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : ALYA PUTRI
Principal In Investigator

Nama Institusi : Poltekkes Kemenkes Medan
Name of the Institution

Dengan judul:
Title

**"IDENTIFIKASI BAKTERI PENYEBAB INFEKSI LUKA PADA PASIEN PASCA OPERASI BEDAH
DI RS BUNDA THAMRIN KOTA MEDAN"**

*"IDENTIFICATION OF BACTERIA CAUSING WOUND INFECTION IN POST-SURGICAL PATIENTS
AT BUNDA THAMRIN HOSPITAL MEDAN 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 24 Juni 2026 sampai dengan tanggal 24 Juni 2027.

This declaration of ethics applies during the period June 24, 2026 until June 24, 2027.

June 24, 2026
Chairperson,



Dr. Lestari Rahmah, MKT

Lampiran 6 Kartu bimbingan



Kementerian Kesehatan
Direktorat Jenderal
Sumber Daya Manusia Kesehatan
 Politeknik Kesehatan Medan
 Jalan Jamin Ginting KM. 13,5
 Medan, Sumatera Utara 20136
 (061) 8368633
<https://poltekkes-medan.ac.id>

PRODI D-III JURUSAN TEKNOLOGI LABORATORIUM MEDIS
POLTEKKES KEMENKES MEDAN

KARTU BIMBINGAN KARYA TULIS ILMIAH
T.A 2026

NAMA : Alya Putri
 NIM : P07534023096
 NAMA DOSEN PEMBIMBING : Suryani M.F Situmeang, S.Pd, M.Kes
 JUDUL KTI : Identifikasi Bakteri Penyebab Infeksi Luka
 Pada Pasien Pasca Operasi Bedah Di RS Bunda
 Thamrin Kota Medan

No	Hari/Tanggal Bimbingan	Materi Bimbingan	Paraf Dosen Pembimbing
1.	Senin, 19 Januari 2026	Pengajuan Judul	
2.	Selasa, 27 Januari 2026	ACC Judul	
3.	Kamis, 5 Februari 2026	Bimbingan Bab I	
4.	Rabu, 11 Februari 2026	Revisi Bab I	
5.	Jumat, 20 Februari 2026	Bimbingan Bab II-III	
6.	Selasa, 10 Maret 2026	Revisi Bab II-III	
7.	Senin, 30 Maret 2026	Revisi Bab II-III	
8.	Selasa, 7 April 2026	ACC Proposal	
9.	Rabu, 15 April 2026	Bimbingan Bab IV-V	
10.	Jumat, 8 Mei 2026	Revisi Bab IV-V	
11.	Kamis, 21 Mei 2026	Revisi Bab IV-V	
12.	Rabu, 3 Juni 2026	ACC KTI	

Ketua Jurusan
 Teknologi Laboratorium Medis

Nita Andriani Lubis S.Si, M.Biomed
 NIP.198012242009122001

Medan, 3 Juni 2026
 Dosen Pembimbing

Suryani M.F Situmeang, S.Pd, M.Kes
 NIP.196609281986032201

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

Lampiran 7 Turnitin

Page 2 of 58 - Integrity OverviewSubmission ID: trrcoid::13632524465

19% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

Filtered from the Report

- Quoted Text
- Small Matches (less than 10 words)

Top Sources

18%		Internet sources
3%		Publications
11%		Submitted works (Student Papers)