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Faculty of Medicine  
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## Publications

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2025

Jurnal internasional bereputasi

### **Molecular Detection of Mycobacterium tuberculosis and Nontuberculous Mycobacteria with Drug Resistance Profiling Using Line Probe Assay in Clinical Samples from Suspected Tuberculosis Patients in North Sumatra, Indonesia**

R LIA KUSUMAWATI , INDAH NUR LESTARI , DELYUZAR , Mirzan Hasibuan

2025

Jurnal internasional bereputasi

### **Increasing Blood Culture Positivity for Streptococcus pneumoniae Using Tryptic Soy Sheep Blood Agar with Gentamicin (TSSBA-G) in Suspected Bacteremia and Pneumonia at Universitas Sumatera Utara Hospital, Indonesia**

Mirzan Hasibuan , R LIA KUSUMAWATI

2025

Tulisan ilmiah

### **PERAN RSP PROF DR CHAIRUDDIN P LUBIS USU DALAM PELAYANAN TIDAK BERBAYAR DIAGNOSIS LABORATORIUM PCR-TBC DI KOTA MEDAN**

GEMA NAZRI YANNI , Mirzan Hasibuan , R LIA KUSUMAWATI

2025

Jurnal internasional bereputasi

### **Rifaximin resistance in Clostridioides difficile is associated with specific rpoB alleles and multilocus sequence typing (MLST) clades**

R LIA KUSUMAWATI

2025

Jurnal internasional bereputasi

### **Detection of Burkholderia pseudomallei in Suspected Melioidosis at Universitas Sumatera Utara (USU) Hospital, North Sumatra, Indonesia**

R LIA KUSUMAWATI , Mirzan Hasibuan

2025

Jurnal nasional terakreditasi

### **Comparison of GeneXpert and line probe assay for the detection of Mycobacterium tuberculosis in direct sputum samples**

R LIA KUSUMAWATI , Mirzan Hasibuan

2024

Jurnal internasional bereputasi

### **Coleus amboinicus Lour. Leaf Extract Has No Effects on the Biochemical Markers but Improves the Liver Histopathological Scores of Septic Rat Model**

MUTIARA INDAH SARI , R LIA KUSUMAWATI , YUNITA SARI PANE , SUFITNI

2024

## **Coleus amboinicus Lour. Leaf Extract Has No Effects on the Biochemical Markers but Improves the Liver Histopathological Scores of Septic Rat Model**

R LIA KUSUMAWATI , MUTIARA INDAH SARI , SUFITNI , YUNITA SARI PANE

2024

## **Comparison of RT-PCR cycle threshold values between individual and pooled SARS-CoV-2 infected nasopharyngeal swab specimens**

INKE NADIA DINIYANTI LUBIS , ARIDAMURIANY DWIPUTRI LUBIS , R LIA KUSUMAWATI , Toh D. Yuan

2024

## **The Association of Age, Parity, and History of Cesarean Section with the Occurrence of Placenta Accreta Spectrum (Pas) at H. Adam Malik Hospital in Medan 2020-2022**

R LIA KUSUMAWATI , RINI SAVITRI DAULAY , HOTMA P PAR PASARIBU

2024

## **Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and susceptible Staphylococcus aureus in an urban tertiary hospital: A molecular epidemiology pilot study**

R LIA KUSUMAWATI , Mirzan Hasibuan , Lavarina Windah , SRI AMELIA

2024

## **Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and sensitive Staphylococcus aureus in an urban tertiary ...**

R LIA KUSUMAWATI

2024

## **UJI SENSITIVITAS ANTIBIOTIKA TERHADAP BAKTERI PENYEBAB INFEKSI PADA LUKA PASCA OPERASI**

Suharsih , Mirzan Hasibuan , R LIA KUSUMAWATI

2023

## **Coleus Amboinicus Lour. Leaf Extract as an Antioxidant in Sepsis**

MUTIARA INDAH SARI , R LIA KUSUMAWATI , YUNITA SARI PANE , SUFITNI

2023

## **Whole-Genome Sequence Analysis of Carbapenem Resistant Acinetobacter baumannii isolated from Medan, North Sumatera, Indonesia**

R LIA KUSUMAWATI

2023

## **Diversity of Spa gene between methicillin-resistant and methicillin-sensitive Staphylococcus aureus bacteria in a tertiary referral hospital, Indonesia**

R LIA KUSUMAWATI , SRI AMELIA

2023

## **Diversity of Spa gene between methicillin-resistant and methicillin-sensitive Staphylococcus aureus bacteria in a tertiary referral hospital, Indonesia**

R LIA KUSUMAWATI , Lavarina Winda , SRI AMELIA

2023

## **Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and sensitive Staphylococcus aureus in an**

# urban tertiary referral hospital: A molecular epidemiology pilot study

R LIA KUSUMAWATI , Lavarina Winda , SRI AMELIA

2023

Jurnal internasional bereputasi

## **SARS-CoV-2 lineages circulating during the first wave of the pandemic in North Sumatra, Indonesia**

RAMADHAN BESTARI , MARIA LUCIA INGE LUSIDA , Prof. Kazufumi Shimizu , R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal nasional terakreditasi

## **Detection of SARS-CoV-2 Post COVID-19 Vaccination in Health Workers in the COVID-19 Isolation Room**

JELITA SIREGAR , R LIA KUSUMAWATI , Mirzan Hasibuan

2023

Jurnal internasional bereputasi

## **Sensitivity of nasopharyngeal swab and saliva specimens in the detection of SARS-CoV-2 virus among boarding school girls**

RINI SAVITRI DAULAY , BADAI BUANA NASUTION , R LIA KUSUMAWATI , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

## **Use of saliva as an alternative diagnostic method for diagnosis of COVID-19**

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , JELITA SIREGAR , M. Ichwan , R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

## **Use of saliva as an alternative diagnostic method for diagnosis of COVID-19**

R LIA KUSUMAWATI , JELITA SIREGAR , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

## **A comparative pilot study on Gram-negative bacteria contaminating the hands of children living in urban and rural areas of Indonesia versus Germany-A suitable monitoring&#x2026;**

R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

## **A comparative pilot study on Gram-negative bacteria contaminating the hands of children living in urban and rural areas of Indonesia versus Germany&#x2021;A suitable monitoring&#x20230;**

R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

## **The trend of paediatric cases during the first year of the COVID-19 pandemic in North Sumatra, Indonesia**

R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

## **The trend of paediatric cases during the first year of the COVID-19 pandemic in North Sumatra, Indonesia**

RAMADHAN BESTARI , R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

## **Missing Cases of Bacteriologically Confirmed TB/DR-TB from the National Treatment Registers in West and North Sumatra Provinces, Indonesia**

R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

# **Performance of Xpert MTB/RIF and sputum microscopy compared to sputum culture for diagnosis of tuberculosis in seven hospitals in Indonesia**

R LIA KUSUMAWATI

2022

Prosiding seminar internasional

## **Phenotypic and molecular detection of (CTX)-C-BLA-M gene extended-spectrum beta-lactamases in escherichia coli and klebsiella pneumoniae of north sumatera isolates**

R LIA KUSUMAWATI

2022

Prosiding seminar internasional

## **Detection of meca gene from methicillin resistant staphylococcus aureus isolates of north sumatera**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Proteotyping of Clostridioides difficile as Alternate Typing Method to Ribotyping Is Able to Distinguish the Ribotypes RT027 and RT176 From Other Ribotypes**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Appropriateness of diagnosis and antibiotic use in sepsis patients admitted to a tertiary hospital in Indonesia**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **The effect of Channa striata extract and standard eradication regimen on asymmetric dimethylarginine in Helicobacter pylori gastritis rat model**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **The effect of snakehead fish extract supplementation to first-line eradication regimen on macrophage migration inhibitory factor (MIF) expression in rats induced by Helicobacter pylori infection**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Predictive value of the urinary dipstick test in the management of patients with urinary tract infection-associated symptoms in primary care in Indonesia: a cross-sectional study**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Laboratory-based versus population-based surveillance of antimicrobial resistance to inform empirical treatment for suspected urinary tract infection in Indonesia**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Rethinking Antimicrobial Resistance Surveillance: A Role for Lot Quality Assurance Sampling**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Antimicrobial resistance in uropathogens and appropriateness of empirical treatment: a population-based surveillance study in Indonesia**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Prevalence and Strain Characterization of Clostridioides (Clostridium) difficile in Representative Regions of Germany, Ghana, Tanzania and Indonesia - A Comparative Multi-Center Cross-Sectional Study**

R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Clinical Epidemiology of Pediatric COVID-19 Delta Variant Cases From North Sumatra, Indonesia**

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

## **Detection of A2058G and A2059G on the 23S rRNA Gene by Multiplex Nested PCR to Identify Treponema pallidum Resistance to Azithromycin in Indonesia**

R LIA KUSUMAWATI

2022

Jurnal nasional terakreditasi

## **Pola Resistensi Antibiotik Pada Pasien Dewasa yang Menderita Pneumonia**

R LIA KUSUMAWATI

2022

Jurnal nasional terakreditasi

## **Pola Resistensi Antibiotik Pada Pasien Dewasa yang Menderita Pneumonia di RS Usu Periode Januari 2017-Desember 2018**

R LIA KUSUMAWATI

2021

Jurnal internasional

## **The Bacterial Profile and Antimicrobial Susceptibility Pattern among Patients with Suspected Bloodstream Infection in Universitas Sumatera Utara Hospital, Indonesia**

Mirzan Hasibuan , R LIA KUSUMAWATI

2021

Jurnal internasional

## **Bacterial Profiles and Antimicrobial Susceptibility Patterns in Patients with Suspected Bloodstream Infections**

Mirzan Hasibuan , R LIA KUSUMAWATI

2020

Jurnal nasional terakreditasi

## **Training On Improving Training On Improving Health Cadres Capacity In Eradication of Tuberculosis Disease In Communities**

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

2020

Jurnal internasional bereputasi

## **The Therapeutic Effect of Nigella Sativa Extract on Female Wistar Rats Vaginal Candidiasis Model**

R LIA KUSUMAWATI , MUHAMMAD RUSDA

2020

Jurnal internasional bereputasi

## **A therapeutic effect of Nigella sativa extract on female Wistar rats vulvovaginal candidiasis model**

MUHAMMAD RUSDA , R LIA KUSUMAWATI

2020  
Jurnal internasional bereputasi

## **Whole-genome sequencing analysis of multidrug-resistant *Mycobacterium tuberculosis* from Java, Indonesia**

R LIA KUSUMAWATI

2020  
Jurnal internasional bereputasi

## **The effect of snakehead fish extract supplementation to first-line eradication regimen on macrophage migration inhibitory factor (MIF) expression in rats induced by *Helicobacter pylori* infection**

SYAFRUDDIN ILYAS , R LIA KUSUMAWATI

2020  
Jurnal internasional bereputasi

## **The effect of snakehead fish extract supplementation to first-line eradication regimen on macrophage migration inhibitory factor (MIF) expression in rats induced by ...**

R LIA KUSUMAWATI , SYAFRUDDIN ILYAS

2020  
Jurnal internasional

## **The role of single nucleotide Interleukin-6 (IL-6) polymorphism gene in Psoriasis vulgaris patients at Haji Adam Malik Central Hospital, Medan-Indonesia**

R LIA KUSUMAWATI , SYAFRUDDIN ILYAS

2020  
Jurnal internasional

## **The correlation TNF- $\alpha$ gene promoter region-238G,-308G,-857, and-1031 polymorphism with psoriasis vulgaris**

R LIA KUSUMAWATI , CASHTRY MEHER

2019  
Jurnal nasional terakreditasi

## **Karakteristik Trauma Mata Pada Anak di Rumah Sakit Umum Pusat Haji Adam Malik Medan Tahun 2011**

ARYANI ATIYATUL AMRA , R LIA KUSUMAWATI

2018  
Prosiding seminar internasional

## **Role Selective and Nonselective Media for Isolation of *Burkholderia* Species from Patients with Suspected Melioidosis**

Mirzan Hasibuan , R LIA KUSUMAWATI

2018  
Prosiding seminar internasional

## **Phenotypic and Molecular Detection of OXA-48 Gene Carbapenem-resistant *Klebsiella pneumoniae* and *Escherichia coli* Isolates in Haji Adam Malik Hospital Medan, Indonesia**

Mirzan Hasibuan , R LIA KUSUMAWATI , DWI SURYANTO

2018  
Prosiding seminar internasional

## **Vitamin D supplementation in tuberculosis patients: A cross-sectional study**

DINA KEUMALA SARI , R LIA KUSUMAWATI

2018  
Jurnal internasional bereputasi

## **Prevalence and Strain Characterization of *Clostridioides (Clostridium) difficile* in Representative Regions of Germany, Ghana, Tanzania and Indonesia - A ...**

R LIA KUSUMAWATI

2018  
Jurnal internasional bereputasi

## **Prevalence and Strain Characterization of *Clostridioides (Clostridium) difficile***

## in Representative Regions of Germany, Ghana, Tanzania and Indonesia - AÂ ...

R LIA KUSUMAWATI

2018

Prosiding seminar internasional

### **Vitamin C supplementation improve the sputum conversion culture rate in pulmonary tuberculosis treatment while rifampicin susceptible**

R LIA KUSUMAWATI

2018

Jurnal internasional

### **Multidrug-resistant Tuberculosis in a Tertiary Hospital in North Sumatera, Indonesia: Clinical Predictors and Molecular Investigation**

R LIA KUSUMAWATI

2018

Monograf

### **Cytological diagnostic of lymphadenitis tuberculosis by eosinophilic material**

ZAINUDDIN AMIR , DELYUZAR , R LIA KUSUMAWATI

2018

Prosiding seminar internasional

### **Phenotypic and molecular detection of BLACTX-M gene extended-spectrum beta-lactamases in escherichia coli and klebsiella pneumoniae of north sumatera isolates**

Mirzan Hasibuan , DWI SURYANTO , R LIA KUSUMAWATI

2018

Monograf

### **Perbedaan Pola Bakteri dan Uji Kepekaan Antibiotik pada Pasien Sepsis Dewasa dan Anak di Ruang Rawat Intensif RS Universitas Sumatera Utara**

R LIA KUSUMAWATI

2017

Buku referensi

### **Petunjuk Teknis Pemeriksaan TB Menggunakan Tes Cepat Molekuler**

R LIA KUSUMAWATI

2017

Monograf

### **Deteksi Gen Resisten CTX-M, SHV, OXA-48 pada Isolat Klinis Bakteri Escherichia coli dan Klebsiella pneumoniae yang Tergolong Multiple Drug Resistant Organisms**

R LIA KUSUMAWATI , DWI SURYANTO

2017

Buku referensi

### **Petunjuk Teknis Pemeriksaan TB Menggunakan Tes Cepat Molekuler**

R LIA KUSUMAWATI

2016

Monograf

### **Gambaran Kontaminasi Bakteri dan Jamur pada Sampel Maskara Mahasiswi Fakultas Kedokteran Universitas Sumatera Utara**

R LIA KUSUMAWATI

2015

Monograf

### **Standar Pelayanan Laboratorium Tuberkulosis**

R LIA KUSUMAWATI

2013

Monograf

### **Deteksi virus chikungunya pada nyamuk Aedes aegypti di kabupaten Serdang Bedagai**

R LIA KUSUMAWATI , HEMMA YULFI

2013

Book chapter internasional

## **Maternal-Child Health, Interdisciplinary Aspects Within the Perspective of Global Health**

R LIA KUSUMAWATI

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## **Researches**

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2025

### **A CLINICALLY - ORIENTED ANTIMICROBIAL RESISTANCE SURVEILLANCE NETWORK FOR HEALTHCARE- ASSOCIATED INFECTIONS/ACORN-HAI FAKULTAS KEDOKTERAN UNIVERSITAS SUMATERA UTARA**

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

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2025

### **PENELITIAN ANTARA UNIVERSITAS SUMATERA UTARA DENGAN PREPARE PROGRAMME, NATIONAL CENTRE FOR INFECTIOUS DISEASES SINGAPORE**

BINTANG YINKE MAGDALENA SINAGA , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

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2024

Kerjasama Luar Negeri dan Publikasi Internasional

### **A CLINICALLY - ORIENTED ANTIMICROBIAL RESISTANCE SURVEILLANCE NETWORK FOR HEALTHCARE - ASSOCIATED INFECTIONS/ ACORN-HAI**

R LIA KUSUMAWATI

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2024

Kerjasama Luar Negeri dan Publikasi Internasional

### **Health system enhancement for pandemic preparedness**

Ivana Alona , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , Shenglan Tan

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2022

Penelitian Dana Lokal Perguruan Tinggi

### **Peneitian**

R LIA KUSUMAWATI

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2020

Penelitian Unggulan Perguruan Tinggi

### **ANALISA WHOLE GENOME SEQUENCING PADA SAMPEL SARS-CoV-2 DARI SUMATERA UTARA DAN HUBUNGANNYA DENGAN MANIFESTASI KLINIS PASIEN COVID-19**

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , M. Ichwan , Prof. Kazufumi Shimizu

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## **Community Services**

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2022

Ipteks

### **Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan**

R LIA KUSUMAWATI

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2025

Ipteks Bagi Masyarakat

### **PEMERIKSAAN ULTRASONOGRAFI (USG) THORAX PADA PASIEN DENGAN CURIGA TUBERKULOSIS DI WILAYAH KERJA PUSKESMAS AMBARITA, SAMOSIR**

ARIDAMURIANY DWIPUTRI LUBIS , CUT MELIZA ZAINUMI , R LIA KUSUMAWATI , ANANDA WIBAWANTA GINTING

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2025

Ipteks

### **Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan**

R LIA KUSUMAWATI

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2025  
Ipteks

### **Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan**

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2025  
Ipteks

### **Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan**

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2023  
Ipteks

### **TB Research Training Program Asia**

R LIA KUSUMAWATI

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2021  
Ipteks Bagi Masyarakat

### **DETEKSI SARS-CoV-2 PADA TENAGA KESEHATAN (NAKES) PASCA VAKSIN: NAKES YANG BERTUGAS PADA RUANG ISOLASI PASIEN COVID-19 DAN KELUARGA NAKES SEBAGAI KONTAK ERAT**

R LIA KUSUMAWATI , JELITA SIREGAR

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2020  
Ipteks Bagi Masyarakat

### **Deteksi SARS-CoV-2 pada Orang Dalam Pemantauan (ODP) dengan Pendekatan Molekuler dan Serologi**

R LIA KUSUMAWATI , JELITA SIREGAR

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2020

### **Pengabdian Masyarakat sebagai Tenaga Kesehatan, Tenaga Medis, serta Tenaga Pendukung Lainnya pada Gugus Tugas Percepatan Penanganan Corona Virus Disease 2019 di Provinsi Sumatera Utara**

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , M. Ichwan , Edy Rahmayadi (Gubernur Sumatera Utara)

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2019  
Ipteks Bagi Masyarakat

### **PENINGKATAN KAPASITAS KADER KESEHATAN DI KECAMATAN MEDAN TUNTUNGAN DALAM PEMBERANTASAN PENYAKIT MENULAR TUBERKULOSIS DI MASYARAKAT**

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

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