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### TITLE AND ABSTRACT

Title MICROBIAL PATTERNS OF HOSPITALIZED HIV POSITIVE PATIENTS ADMITTED IN DR. SOETOMO GENERAL HOSPITAL, SURABAYA INDONESIA

Abstract

**Background:** HIV patients with a weak immune system are very vulnerable to opportunistic infections, can trigger systemic endothelial activation and end up as a condition of sepsis. In Indonesia currently, there is no bacterial epidemiological mapping of the etiology of opportunistic infections in HIV patients. **Purpose:** To determine the pattern of bacteria that cause opportunistic infections and their antibiotic sensitivity in HIV patients. **Method:** Prospective observational study design. Data were obtained from medical records of hospitalized patients at RSUD Dr. Soetomo Surabaya from August 2019 - February 2020. **Result:** Out of 64 patients, 83 specimens were found with the most types of gram-negative bacteria 44.6%, while gram-positive bacteria were 15.7% and a mix of 2.4% and 37.3% negative culture. The highest prevalence of gram-negative bacteria was *Klebsiella pneumoniae* (35.15), followed by *Escherichia coli* (10.8%), *Pseudomonas aeruginosa* (8.1%), and *Acinetobacter baumannii* (8.1%). The highest prevalence of gram-positive bacteria was *Streptococcus mitis / oralis* (30.7%), followed by *Staphylococcus aureus* (23.1%) and *Staphylococcus epidermidis* (15.4%). Among gram-negative bacteria antibiotic, Cefoperazone-sulbactam showed the greatest

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sensitivity, following by Amikacin, Gentamycin and Piperacillin-tazobactam; while among gram-positive bacteria are Chloramphenicol, Linezolid, and Vancomycin. Almost all isolates showed resistance to Ampicillin. **Conclusion:** Bacteria pattern that caused opportunistic infection in RSUD Dr. Soetomo is *K. pneumonia* as most common gram-negative bacteria followed by *E. coli*, *P. aeruginosa* and *A. baumannii*; while the most gram-positive bacteria found are *S. mitis/oralis* and *S. aureus*. Among antibiotic used, Ampicillin showed the lowest sensitivity to almost all bacteria isolates.

## INDEXING

Academic discipline and sub-disciplines Vocational; Health; Medicine; Medical Laboratory Technology  
 Keywords AIDS; Antibiotic sensitivity; Bacterial infection; HIV; Turnaround time  
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## SUPPORTING AGENCIES

Agencies Intermediate Care Unit and Infectious Diseases Unit (UPIPI); Department/SMF Internal Medicine and Clinical Microbiology Installation Faculty of Medicine, Universitas Airlangga/Dr. Soetomo General Hospital Surabaya, Indonesia

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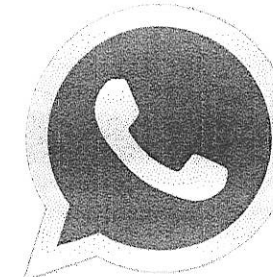
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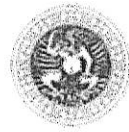
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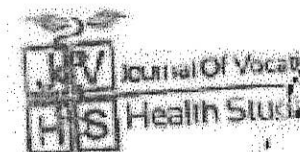
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