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MULTIRESISTANCE PATTERN OF EXTENDED SPECTRUM ß-LACTAMASE (ESBL) ß ESCHERICHIA COLI AND KLEBSIELLA PNEUMONIAE STRAINS

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Abstract

All specimens came in the Clinical Microbiology Laboratory of Dr. Soetomo Hospital Surabaya were prospectively studied since January 2005 until April 2005. The bacterial isolation and identification were performed using the standard method on the consecutive isolates. The biochemical reaction was performed by using the reagent of Microbact for Gram negative bacteria detection Microbact 12A (Medveg diagnostics). The susceptibility test was conducted by disk diffusion test according to NCCLS method. The phenotypic confirmation laboratory testing of ESBLs were conducted using ceftazidime disk (CAZ 30 ug) and ceftazidime plus clavulanic acid (CD 30ug/10ug) according to NCCLS and ESBLs determined using double disc (DD) synergy method. Prevalence of ESBL producing Escherichia coli and Klebsiella pneumoniae from clinical specimens were high 34.84 % (115/330) and 35.35% (105/297). Antimicrobial resistance pattern of ESBL-producing E. coli and Klebsiella pneumoniae to third generation cephalosporin were high resistant, i.e.: cefotaxim (90.4%), ceftriaxon (95.7%), ceftazidime (55.7%); 81.9%, 94.3%, 87.8% respectively. The resistance pattern against ciprofloxacin have similar figure with thirds generation cephalosporin. The alternative sensitive drugs against ESBL-producing bacteria were meropenem and fosfomycin.

Keyword : Extended, Spectrum, ß-Lactamase, (ESBL), multiresistance, Escherichia, coli, Klebsiella, pneumoniae,

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