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Abstract

The aim of the present study were to determine the incidence and origin of acquisition of ESBL-producing Escherichia coli strains isolated from Dr. Soetomo university hospital and to delineate the clonal diversity and transmission patterns of these strains by comparing results of genome macro restriction analysis – Pulsed Field Gel Electrophoresis (PFGE). The respective values of the genomic typing methods for epidemiologic typing of Escherichia coli were evaluated in more detail. Clinical specimens as the previous prevalence study of ESBL-E. coli and Klebsiella pneumoniae strains during January 2005 till April 2005 have identified 88 ESBL-E. coli strains of 330 E. coli that identified using standard method-NCCLS and DD synergy test. Banding patterns were PFGE (Certified, Bio Red, CHEF DR II) analyzed using manually read by 3 observers; and strains were defined as having PFGE genotype with ≥ 85 % similarity or no more than 2 band differences. Many strains of 88 members of ESBL-E.coli strains were multi various genotype on PFGE typing; on the other, some strains have the clonal genes, that have identical genotype or identical banding pattern. The clonal spreading of ESBL – Escherichia coli strains had detected event among the wards i.e. Surgery, Pediatry, Internal medicine and Obstetric Gynecology. Appropriate conduct on standard precaution procedures needs reinforcement, possible environmental reservoirs need elimination, and antibiotics policies need reconsideration.

Keyword : Escherichia, coli, genotyping, Extended, Spectrum, Î’-Lactamase, PFGE,

Daftar Pustaka :
Detection of this Important Resistance Threat. no info : Clinical Microbiol
23. MB Avison, (2004). Evolutionary mapping of the SHV beta-Lactamase and evidence for two separate IS26-dependent blaSHV mobilization events from the Klebsiella pneumoniae chromosome. no info : J. Antimicrob Chemo


41. **A van Belkum, (2003)**. Patterns of Resistance Associated with Integrons, the Extended-Spectrum beta-Lactamase SHV-5 Gene, and a Multidrug Efflux Pump of Klebsiella pneumoniae Causing a Nosocomial Outbreak. no info : J Clin. Microbiol

42. **H Verbrugh, (2003)**. Patterns of Resistance Associated with Integrons, the Extended-Spectrum beta-Lactamase SHV-5 Gene, and a Multidrug Efflux Pump of Klebsiella pneumoniae Causing a Nosocomial Outbreak. no info : J Clin. Microbiol