

ABSTRACT

PATTERN SENSITIVITY OF *Escherichia coli* AND *Klebsiella sp.* TO ANTIBIOTIC SEFALOSPORIN PERIOD OF YEAR 2008-2013 DI BANDAR LAMPUNG

By

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Significant increases around the world of the bacterium *Escherichia coli* and *Klebsiella sp.* is a problem that needs immediate attention and needs to management. Therapeutic options for infections *Escherichia coli* and *Klebsiella sp.* it's been very difficult because there has been a lot of drug resistance (Multi Drug Resistance). Progress in controlling the infection is not completely eradicate this problem because of the development of drug resistance. Antibiotics as a drug to combat infectious diseases, its use should be rational, precise and secure. The use of antibiotic therapy is said to be accurate to achieve maximum effect while the toxic effects associated with the drug to a minimum, as well as the development of antibiotic resistance to a minimum.

This study aims to determine the sensitivity pattern of *Escherichia coli* and *Klebsiella sp.* to cephalosporins in Lampung Regional Health Laboratory at Bandar Lampung. The results showed the prevalence of *Escherichia coli* as a bacterial infection (47.3%) whereas in the bacteria *Klebsiella sp.* as many (52.7%). From the study found a pattern of resistance to cephalosporin antibiotics *Escherichia coli* tends to go down from year to year. In the antibiotic cefuroxime increased in 2010 as many (84.9%) but declined by the year 2012 as many (53.3%), the antibiotic cefotaxime increase occurred in 2009 were (87.5%) in 2012 but declined by as much as (65.4%), the ceftazidime antibitotik increase occurred in 2009 were (94.6%) but decreased by 2012 as many (60%), the antibiotic Cefadroxil increase occurred in the year 2010 as many (96.2%) but decreased to in 2012 as many (74.5%).

Of the resistance pattern of *Klebsiella sp.* cephalosporin antibiotic also showed that tends to fall from year to year. In the antibiotic cefuroxime increase occurred in 2011 as many (85.2%) but decreased in the year 2012 as many (66.6%), the antibiotic cefotaxime increase occurred in 2009 were (97.5%) in 2012 but declined by as much as (65%), the antibiotic ceftazidime increase occurred in 2009 were (93.9%) but declined by the year 2012 as many (76.1%), the antibiotic Cefadroxil occurs lowering the resistance level down from year to year.

Kata Kunci : Antibiotic, *Escherichia coli*, *Klebsiella sp.*